



Kaiser Commerce Center

ENERGY ANALYSIS

COUNTY OF SAN BERNARDINO

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

(1)	Reference
AQIA	Air Quality Impact Analysis
BACM	Best Available Control Measures
BTU	British Thermal Units
CalEEMod	California Emissions Estimator Model
CAP	Climate Action Plan
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
COUNTY	County of San Bernardino
CPEP	Clean Power and Electrification Pathway
CPUC	California Public Utilities Commission
DMV	Department of Motor Vehicles
EIA	Energy Information Administration
EIR	Environmental Impact Report
EPA	Environmental Protection Agency
EVs	Electric Vehicles
EMFAC	EMissions FACtor
FERC	Federal Energy Regulatory Commission
GHG	Greenhouse Gas
GPA	General Plan Amendment
GWh	Gigawatt Hour
GS-1	General Service Rate
HHDT	Heavy-Heavy Duty Trucks
HP-HR-GAL	Horsepower Hours Per Gallon
I-10	Interstate 10 Freeway
I-15	Interstate 15 Freeway
IEPR	Integrated Energy Policy Report
ISO	Independent Service Operator
ISTEA	Intermodal Surface Transportation Efficiency Act
ITE	Institute of Transportation Engineers
kBTU	Kilo-British Thermal Units
kWh	Kilowatt Hour
LED	Light Emitting Diodes
LDA	Light Duty Auto

LDT1/LDT2	Light-Duty Trucks
LHDT	Light-Heavy Duty Trucks
MDV	Medium Duty Trucks
MHDT	Medium-Heavy Duty Trucks
MM	Mitigation Measures
MPG	Miles Per Gallon
MPO	Metropolitan Planning Organization
NEV	Neighborhood Electric Vehicle
PG&E	Pacific Gas and Electric
Project	Kaiser Commerce Center
SCAB	Southern California Air Basin
SCE	Southern California Edison
SDAB	San Diego Air Basin
SoCalGas	Southern California Gas
SF	Square Feet
SP	Specific Plan
TEA-21	Transportation Equity Act for the 21 st Century
US	United States
VMT	Vehicle Miles Traveled

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Kaiser Commerce Center Energy Analysis* 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 (1). Table ES-1 shows the findings of significance for potential energy impacts under CEQA.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Energy Impact #1: Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation.	5.0	<i>Less Than Significant</i>	<i>n/a</i>
Energy Impact #2: Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.	5.0	<i>Less Than Significant</i>	<i>n/a</i>

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1 INTRODUCTION

This report presents the results of the energy analysis prepared by Urban Crossroads, Inc., for the proposed Kaiser Commerce Center (Project). The purpose of this report is to ensure that energy implication is considered by the County of San Bernardino, as the lead agency, and to quantify anticipated energy usage associated with construction and operation of the proposed Project, determine if the usage amounts are efficient, typical, or wasteful for the land use type, and to emphasize avoiding or reducing inefficient, wasteful, and unnecessary consumption of energy.

1.1 SITE LOCATION

The proposed Kaiser Commerce Center Project is located on the south of San Bernardino Avenue, between Commerce Drive and Calabash Avenue in the unincorporated County of San Bernardino as shown on Exhibit 1-A. The Project site is located roughly 0.65 miles north of Interstate 10 (I-10) and 1.90 miles east of the Interstate 15 (I-15). Nearby industrial uses in the Project study area surround Project site to the north, east, and south; the Kaiser Commerce Center Specific Plan area surrounds the Project to the west.

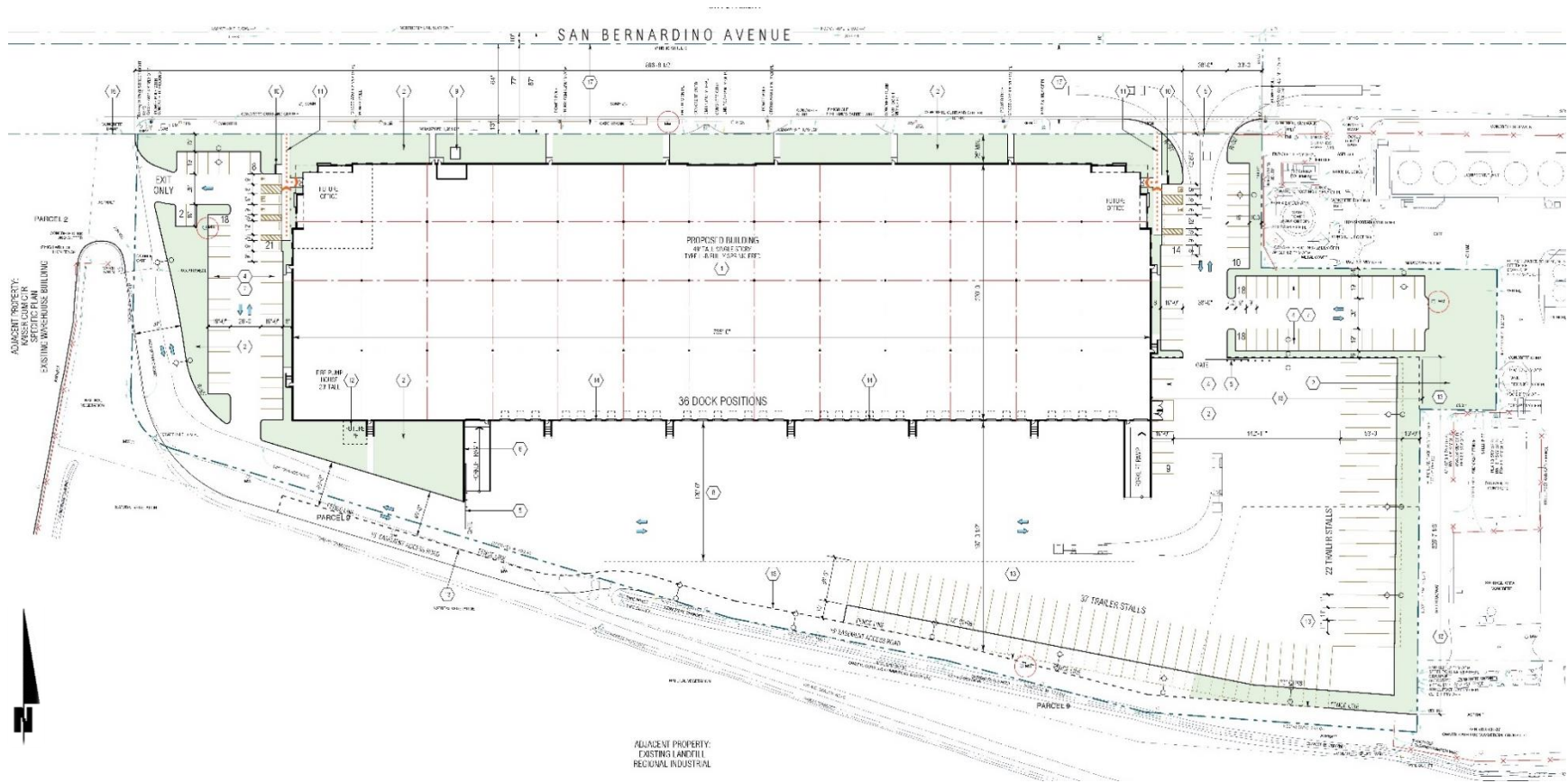
1.2 PROJECT DESCRIPTION

It is our understanding that the Project is to consist of 132,259 square feet (sf) of warehousing use (80% of the overall square footage) and 33,065 sf of high-cube cold storage warehouse (20% of the overall square footage), totaling 165,324 sf of industrial use within a single building, as shown on Exhibit 1-B. At the time this energy analysis was prepared, the future tenants of the proposed Project were unknown. This analysis is intended to describe energy usage associated with the expected typical 24-hour, seven days per week operational activities at the Project site.

EXHIBIT 1-A: LOCATION MAP



EXHIBIT 1-B: SITE PLAN



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2 EXISTING CONDITIONS

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

2.1 OVERVIEW

The most recent data for California's estimated total energy consumption is from 2017 and natural gas consumption is from 2018, released by the United States (U.S.) Energy Information Administration's (EIA) California State Profile and Energy Estimates in 2020 and included:

- Approximately 7,881 trillion British Thermal Unit (BTU) of energy was consumed; (2);
- Approximately 2,137 billion cubic feet of natural gas (2)

The California Energy Commission's (CEC) Transportation Energy Demand Forecast 2018-2030 was released in order to support the 2017 Integrated Energy Policy Report. The Transportation energy Demand Forecast 2018-2030 lays out graphs and data supporting their projections of California's future transportation energy demand. The projected inputs consider expected variable changes in fuel prices, income, population, and other variables. Predictions regarding fuel demand included:

- Gasoline demand in the transportation sector is expected to decline from approximately 15.8 billion gallons in 2017 to between 12.3 billion and 12.7 billion gallons in 2030 (3)
- Diesel demand in the transportation sector is expected to rise, increasing from approximately 3.7 billion diesel gallons in 2015 to approximately 4.7 billion in 2030 (3)
 - Data from the Department of Energy states that approximately 3.9 billion gallons of diesel fuel were consumed in 2017 (4)

The most recent data provided by the EIA for energy use in California by demand sector is from 2017 and is reported as follows:

- Approximately 40.3% transportation;
- Approximately 23.1% industrial;
- Approximately 18.0% residential; and
- Approximately 18.7% commercial (5)

In 2018, total system electric generation for California was 285,488 gigawatt hours (GWh). California's massive electricity in-state generation system generated approximately 194,842 GWh which accounted for approximately 68% of the electricity it uses; the rest was imported from the Pacific Northwest (14%) and the U.S. Southwest (18%) (6). Natural gas is the main source for electricity generation at 47% of the total in-state electric generation system power as shown in Table 2-1.

TABLE 2-1: TOTAL ELECTRICITY SYSTEM POWER (CALIFORNIA 2018)

Fuel Type	California In-State Generation	Percent of California In-State	Northwest Imports (GWh)	Southwest Imports (GWh)	California Power Mix (GWh)	Percent California Power Mix
Coal	294	0.15%	399	8,740	9,433	3.30%
Large Hydro	22,096	11.34%	7,418	985	30,499	10.68%
Natural Gas	90,691	46.54%	49	8,904	99,644	34.91%
Nuclear	18,268	9.38%	0	7,573	25,841	9.05%
Oil	35	0.02%	0	0	35	0.01%
Other	430	0.22%	0	9	439	0.15%
Renewables	63,028	32.35%	14,074	12,400	89,502	31.36%
Biomass	5,909	3.03%	772	26	6,707	2.35%
Geothermal	11,528	5.92%	171	1,269	12,968	4.54%
Small Hydro	4,248	2.18%	334	1	4,583	1.61%
Solar	27,265	13.99%	174	5,094	32,533	11.40%
Wind	14,078	7.23%	12,623	6,010	32,711	11.46%
Unspecified Sources of Power	N/A	N/A	17,576	12,519	30,095	10.54%
Total	194,842	100%	39,517	51,130	285,488	100%

Source: https://www.energy.ca.gov/almanac/electricity_data/total_system_power.html

An updated summary of, and context for energy consumption and energy demands within the State is presented in “U.S. Energy Information Administration, California State Profile and Energy Estimates, Quick Facts” excerpted below:

- California was the seventh-largest producer of crude oil among the 50 states in 2018, and, as of January 2019, it ranked third in oil refining capacity.
- California is the largest consumer of jet fuel among the 50 states and accounted for one-fifth of the nation’s jet fuel consumption in 2018. (7)
- California's total energy consumption is second-highest in the nation, but, in 2018, the state's per capita energy consumption was the fourth-lowest, due in part to its mild climate and its energy efficiency programs. (8)
- In 2018, California ranked first in the nation as a producer of electricity from solar, geothermal, and biomass resources and fourth in the nation in conventional hydroelectric power generation.
- In 2018, large- and small-scale solar PV and solar thermal installations provided 19% of California’s net electricity generation (9).

As indicated above, California is one of the nation's leading energy-producing states, and California per capita energy use is among the nation's most efficient. Given the nature of the proposed Project, the remainder of this discussion will focus on the three sources of energy that are most relevant to the project—namely, electricity, natural gas, and transportation fuel for vehicle trips associated with the uses planned for the Project.

2.2 ELECTRICITY

The Southern California region's electricity reliability has been of concern for the past several years due to the planned retirement of aging facilities that depend upon once-through cooling technologies, as well as the June 2013 retirement of the San Onofre Nuclear Generating Station (San Onofre). While the once-through cooling phase-out has been ongoing since the May 2010 adoption of the State Water Resources Control Board's once-through cooling policy, the retirement of San Onofre complicated the situation. California ISO studies had revealed the extent to which the South California Air Basin (SCAB) and the San Diego Air Basin (SDAB) region were vulnerable to low-voltage and post-transient voltage instability concerns. A preliminary plan to address these issues was detailed in the 2013 Integrative Energy Policy Report (IEPR) after a collaborative process with other energy agencies, utilities, and air districts (10). If the resource development outlined in the preliminary plan continues as detailed, reliability in Southern California would likely be assured; however, tight resource margins have led energy agencies and the California Air Resources Board (CARB) to develop a contingency plan. This contingency plan was discussed at a public workshop in Los Angeles on August 20, 2014 and is detailed within this Section (11).

Electricity is provided to the Project by Southern California Edison (SCE). SCE provides electric power to more than 15 million persons in 15 counties and in 180 incorporated cities, within a service area encompassing approximately 50,000 square miles. Based on SCE's 2018 Power Content Label Mix, SCE derives electricity from varied energy resources including: fossil fuels, hydroelectric generators, nuclear power plants, geothermal power plants, solar power generation, and wind farms. SCE also purchases from independent power producers and utilities, including out-of-state suppliers (12).

California's electricity industry is an organization of traditional utilities, private generating companies, and state agencies, each with a variety of roles and responsibilities to ensure that electrical power is provided to consumers. The California Independent Service Operator (ISO) is a nonprofit public benefit corporation and is the impartial operator of the State's wholesale power grid and is charged with maintaining grid reliability, and to direct uninterrupted electrical energy supplies to California's homes and communities. While utilities [such as SCE] still own transmission assets, the ISO routes electrical power along these assets, maximizing the use of the transmission system and its power generation resources. The ISO matches buyers and sellers of electricity to ensure that sufficient power is available to meet demand. To these ends, every five minutes the ISO forecasts electrical demands, accounts for operating reserves, and assigns the lowest cost power plant unit to meet demands while ensuring adequate system transmission capacities and capabilities (13).

Part of the ISO's charge is to plan and coordinate grid enhancements to ensure that electrical power is provided to California consumers. To this end, transmission owners (investor-owned utilities such as SCE) file annual transmission expansion/modification plans to accommodate the State's growing electrical needs. The ISO reviews and either approves or denies the proposed additions. In addition, and perhaps most importantly, the ISO works with other areas in the western United States electrical grid to ensure that adequate power supplies are available to the State. In this manner, continuing reliable and affordable electrical power is assured to existing and new consumers throughout the State.

Table 2-2 identifies SCE's specific proportional shares of electricity sources in 2018. As indicated in Table 2-2, the 2018 SCE Power Mix has renewable energy at 36% of the overall energy resources. Geothermal resources are at 8%, wind power is at 13%, large hydroelectric sources are at 1%, solar energy is at 13%, and coal is at 0%. Biomass and waste sources have increased by 1% since 2017. Natural gas remains at 17% since 2017 (14).

TABLE 2-2: SCE 2018 POWER CONTENT MIX

Energy Resources	2018 SCE Power Mix
<i>Eligible Renewable</i>	36%
Biomass & waste	1%
Geothermal	8%
Small Hydroelectric	1%
Solar	13%
Wind	13%
<i>Coal</i>	0%
<i>Large Hydroelectric</i>	4%
<i>Natural Gas</i>	17%
<i>Nuclear</i>	6%
<i>Other</i>	0%
Unspecified Sources of power*	37%
Total	100%

* "Unspecified sources of power" means electricity from transactions that are not traceable to specific generation sources

2.3 NATURAL GAS

The usage associated with natural gas use were calculated using the California Emissions Estimator Model (CalEEMod) v2016.3.2 model. The following summary of natural gas resources and service providers, delivery systems, and associated regulation is excerpted from information provided by the California Public Utilities Commission (CPUC).

“The CPUC regulates natural gas utility service for approximately 10.8 million customers that receive natural gas from Pacific Gas and Electric (PG&E), Southern California Gas (SoCalGas), San Diego Gas & Electric (SDG&E), Southwest Gas, and several smaller natural gas utilities. The CPUC also regulates independent storage operators: Lodi Gas Storage, Wild Goose Storage, Central Valley Storage and Gill Ranch Storage.

The vast majority of California’s natural gas customers are residential and small commercial customers, referred to as “core” customers, who accounted for approximately 32% of the natural gas delivered by California utilities in 2012. Large consumers, like electric generators and industrial customers, referred to as “noncore” customers, accounted for approximately 68% of the natural gas delivered by California utilities in 2012.

The PUC regulates the California utilities’ natural gas rates and natural gas services, including in-state transportation over the utilities’ transmission and distribution pipeline systems, storage, procurement, metering and billing. Most of the natural gas used in California comes from out-of-state natural gas basins. In 2012, California customers received 35% of their natural gas supply from basins located in the Southwest, 16% from Canada, 40% from the Rocky Mountains, and 9% from basins located within California. California gas utilities may soon also begin receiving biogas into their pipeline systems.

Natural gas from out-of-state production basins is delivered into California via the interstate natural gas pipeline system. The major interstate pipelines that deliver out-of-state natural gas to California consumers are the Gas Transmission Northwest Pipeline, Kern River Pipeline, Transwestern Pipeline, El Paso Pipeline, Ruby Pipeline, Questar Southern Trails and Mojave Pipeline. Another pipeline, the North Baja – Baja Norte Pipeline, takes gas off the El Paso Pipeline at the California/Arizona border, and delivers that gas through California into Mexico. While the Federal Energy Regulatory Commission (FERC) regulates the transportation of natural gas on the interstate pipelines, the PUC often participates in FERC regulatory proceedings to represent the interests of California natural gas consumers.

Most of the natural gas transported via the interstate pipelines, as well as some of the California-produced natural gas, is delivered into the PG&E and SoCalGas intrastate natural gas transmission pipeline systems (commonly referred to as California’s “backbone” natural gas pipeline system). Natural gas on the utilities’ backbone pipeline systems is then delivered into the local transmission and distribution pipeline systems, or to natural gas storage fields. Some large noncore customers take natural gas directly off the high-pressure backbone pipeline systems, while core customers and other noncore customers take natural gas off the utilities’ distribution pipeline systems. The PUC has regulatory jurisdiction over 150,000 miles of utility-owned natural gas pipelines, which transported 82% of the total amount of natural gas delivered to California’s gas consumers in 2012.

SDG&E and Southwest Gas’ southern division are wholesale customers of SoCalGas, and currently receive all of their natural gas from the SoCalGas system (Southwest Gas also

provides natural gas distribution service in the Lake Tahoe area). Some other municipal wholesale customers are the cities of Palo Alto, Long Beach, and Vernon, which are not regulated by the CPUC.

Some of the natural gas delivered to California customers may be delivered directly to them without being transported over the regulated utility systems. For example, the Kern River/Mojave pipeline system can deliver natural gas directly to some large customers, “bypassing” the utilities’ systems. Much of California-produced natural gas is also delivered directly to large consumers.

PG&E and SoCalGas own and operate several natural gas storage fields that are located in northern and southern California. These storage fields, and four independently owned storage utilities – Lodi Gas Storage, Wild Goose Storage, Central Valley Storage, and Gill Ranch Storage – help meet peak seasonal natural gas demand and allow California natural gas customers to secure natural gas supplies more efficiently. (A portion of the Gill Ranch facility is owned by PG&E).

California’s regulated utilities do not own any natural gas production facilities. All of the natural gas sold by these utilities must be purchased from suppliers and/or marketers. The price of natural gas sold by suppliers and marketers was deregulated by the FERC in the mid-1980’s and is determined by “market forces.” However, the PUC decides whether California’s utilities have taken reasonable steps in order to minimize the cost of natural gas purchased on behalf of their core customers.” (15)

As indicated in the preceding discussions, natural gas is available from a variety of in-state and out-of-state sources and is provided throughout the state in response to market supply and demand. Complementing available natural gas resources, biogas may soon be available via existing delivery systems, thereby increasing the availability and reliability of resources in total. The PUC oversees utility purchases and transmission of natural gas to ensure reliable and affordable natural gas deliveries to existing and new consumers throughout the State.

2.4 TRANSPORTATION ENERGY RESOURCES

The Project would generate additional vehicle trips with resulting consumption of energy resources, predominantly gasoline and diesel fuel. In March 2018, the Department of Motor Vehicles (DMV) identified 35 million registered vehicles in California (16), and those vehicles (as noted previously) consume an estimated 19 billion gallons of fuel each year¹. Gasoline (and other vehicle fuels) are commercially provided commodities and would be available to the Project patrons and employees via commercial outlets.

California’s on-road transportation system includes 170,000 miles of highways and major roadways, more than 27 million passenger vehicles and light trucks, and almost 8 million medium- and heavy-duty vehicles (16). While gasoline consumption has been declining since 2008 it is still by far the dominant fuel. Petroleum comprises about 92% of all transportation energy use, excluding fuel consumed for aviation and most marine vessels (17). Nearly 19 billion

¹ Fuel consumptions estimated utilizing information from EMFAC2017.

gallons of on-highway fuel are burned each year, including 15.1 billion gallons of gasoline (including ethanol) and 3.9 billion gallons of diesel fuel (including biodiesel and renewable diesel). In 2016, Californians also used 194 million therms of natural gas as a transportation fuel (18), or the equivalent of 155 million gallons of gasoline.

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3 REGULATORY BACKGROUND

Federal and state agencies regulate energy use and consumption through various means and programs. On the federal level, the United States Department of Transportation, the United States Department of Energy, and the United States Environmental Protection Agency are three federal agencies with substantial influence over energy policies and programs. On the state level, the CPUC and the California Energy Commissions (CEC) are two agencies with authority over different aspects of energy. Relevant federal and state energy-related laws and plans are summarized below. Project consistency with applicable federal and state regulations is also presented in *italicized* text.

3.1 FEDERAL REGULATIONS

Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA)

The Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) promoted the development of inter-modal transportation systems to maximize mobility as well as address national and local interests in air quality and energy. ISTEA contained factors that Metropolitan Planning Organizations (MPOs) were to address in developing transportation plans and programs, including some energy-related factors. To meet the new ISTEA requirements, MPOs adopted explicit policies defining the social, economic, energy, and environmental values guiding transportation decisions. *Transportation and access to the Project site is provided primarily by the local and regional roadway systems. The Project would not interfere with, nor otherwise obstruct intermodal transportation plans or projects that may be realized pursuant to the ISTEA because SCAG is not planning for intermodal facilities on or through the Project site.*

The Transportation Equity Act for the 21st Century (TEA-21)

The Transportation Equity Act for the 21st Century (TEA-21) was signed into law in 1998 and builds upon the initiatives established in the ISTEA legislation, discussed above. TEA-21 authorizes highway, highway safety, transit, and other efficient surface transportation programs. TEA-21 continues the program structure established for highways and transit under ISTEA, such as flexibility in the use of funds, emphasis on measures to improve the environment, and focus on a strong planning process as the foundation of good transportation decisions. TEA-21 also provides for investment in research and its application to maximize the performance of the transportation system through, for example, deployment of Intelligent Transportation Systems, to help improve operations and management of transportation systems and vehicle safety. *The Project site is located along major transportation corridors with proximate access to the Interstate freeway system. The site selected for the Project facilitates access, acts to reduce vehicle miles traveled, takes advantage of existing infrastructure systems, and promotes land use compatibilities through collocation of similar uses. The Project supports the strong planning processes emphasized under TEA-21. The Project is therefore consistent with, and would not otherwise interfere with, nor obstruct implementation of TEA-21.*

3.2 CALIFORNIA REGULATIONS

Integrated Energy Policy Report

Senate Bill 1389 (Bowen, Chapter 568, Statutes of 2002) requires the CEC to prepare a biennial integrated energy policy report that assesses major energy trends and issues facing the state's electricity, natural gas, and transportation fuel sectors and provides policy recommendations to conserve resources; protect the environment; ensure reliable, secure, and diverse energy supplies; enhance the state's economy; and protect public health and safety (Public Resources Code § 25301a). The Energy Commission prepares these assessments and associated policy recommendations every two years, with updates in alternate years, as part of the Integrated Energy Policy Report.

The 2018 Integrated Energy Policy Report (2018 IEPR) was adopted February 20, 2019, and continues to work towards improving electricity, natural gas, and transportation fuel energy use in California. The 2018 IEPR focuses on a variety of topics such as including the environmental performance of the electricity generation system, landscape-scale planning, the response to the gas leak at the Aliso Canyon natural gas storage facility, transportation fuel supply reliability issues, updates on Southern California electricity reliability, methane leakage, climate adaptation activities for the energy sector, climate and sea level rise scenarios, and the California Energy Demand Forecast (19). *Electricity would be provided to the Project by SCE and natural gas is provided by SoCalGas. SCE's Clean Power and Electrification Pathway (CPEP) white paper and SoCalGas 2018 Corporate Sustainability Report builds on existing state programs and policies. As such, the Project is consistent with, and would not otherwise interfere with, nor obstruct implementation the goals presented in the 2018 IEPR.*

State of California Energy Plan

The CEC is responsible for preparing the State Energy Plan, which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and the maintenance of a healthy economy. The Plan calls for the state to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies a number of strategies, including assistance to public agencies and fleet operators and encouragement of urban designs that reduce vehicle miles traveled and accommodate pedestrian and bicycle access. *The Project site is located along major transportation corridors with proximate access to the Interstate freeway system. The site selected for the Project facilitates access, acts to reduce vehicle miles traveled, takes advantage of existing infrastructure systems, and promotes land use compatibilities through the introduction of industrial uses on a regional industrial-designated site. The Project therefore supports urban design and planning processes identified under the State of California Energy Plan, is consistent with, and would not otherwise interfere with, nor obstruct implementation of the State of California Energy Plan.*

California Code Title 24, Part 6, Energy Efficiency Standards

California Code of Regulations (CCR) Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings, was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. The 2019 version of Title 24 was adopted by the CEC and will become effective on January 1, 2020. The 2019 Title 24 standards go into effect on January 1, 2020 and are applicable to building permit applications submitted on or after that date. The 2019 Title 24 standards require solar photovoltaic systems for new homes, establish requirements for newly constructed healthcare facilities, encourage demand responsive technologies for residential buildings, update indoor and outdoor lighting for nonresidential buildings. The CEC anticipates that single-family homes built with the 2019 standards will use approximately 7 percent less energy compared to the residential homes built under the 2016 standards. Additionally, after implementation of solar photovoltaic systems, homes built under the 2019 standards will about 53 percent less energy than homes built under the 2016 standards. Nonresidential buildings will use approximately 30 percent less energy due to lighting upgrades (20). *The Project will design building shells and building components, such as windows; roof systems; electrical and lighting systems; and heating, ventilating, and air conditioning systems to meet 2019 Title 24 Standard. As such, the analysis herein assumes compliance with the 2019 Title 24 Standards because the Project will be constructed after January 1, 2020.*

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4 PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES

4.1 EVALUATION CRITERIA

In compliance with Appendix G of the *State CEQA Guidelines* (1), this report analyzes the project's anticipated energy use to determine if the Project would:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation; or
- Conflict with or obstruct a state or local plan for renewable energy or energy efficiency

In addition, Appendix F of the *State CEQA Guidelines* (21), states that the means of achieving the goal of energy conservation includes the following:

- Decreasing overall per capita energy consumption;
- Decreasing reliance on fossil fuels such as coal, natural gas and oil; and
- Increasing reliance on renewable energy sources.

4.2 METHODOLOGY

Information from the CalEEMod Version 2016.3.2 outputs for the *Kaiser Commerce Center Air Quality Impact Analysis* (Urban Crossroads, Inc.) (AQIA) (22) was utilized in this analysis, detailing Project related construction equipment, transportation energy demands, and facility energy demands. These outputs can be referenced in Appendices 3.1 through 3.3.

4.3 CONSTRUCTION ENERGY DEMANDS

4.3.1 CONSTRUCTION EQUIPMENT ELECTRICITY USAGE ESTIMATES

The focus within this section is the energy implications of the construction process, specifically the power cost from on-site electricity consumption during construction of the proposed Project. Based on the *2017 National Construction Estimator*, Richard Pray (2017) (23), the typical power cost per 1,000 square feet of building construction per month is estimated to be \$2.32. For the Kaiser Commerce Center development, the Project plans to develop up to 132,259 square feet (sf) of warehousing use (80% of the overall square footage) and 33,065 sf of high-cube cold storage warehouse (20% of the overall square footage), totaling 165,324 sf of industrial use within a single building over the course of 7 months. Based on Table 4-1, the total power cost of the on-site electricity usage during the construction of the proposed Project is estimated to be approximately \$2,684.86. Additionally, as of January 1, 2020, SCE's general service rate schedule (GS-1) for an industrial land uses is \$0.08 per kilowatt hours (kWh) of electricity (24). As shown on Table 4-2, the total electricity usage from on-site Project construction related activities is estimated to be approximately 33,561 kWh.

TABLE 4-1: PROJECT CONSTRUCTION POWER COST

Land Use	Power Cost (per 1,000 SF of building per month of construction)	Total Building Size (1,000 SF)	Construction Duration (months)	Project Construction Power Cost
Warehousing	\$2.32	132.259	7	\$2,147.89
High-Cube Cold Storage Warehouse	\$2.32	33.065	7	\$536.98
TOTAL PROJECT CONSTRUCTION POWER COST				\$2,684.86

TABLE 4-2: PROJECT CONSTRUCTION ELECTRICITY USAGE

Land Use	Cost per kWh	Project Construction Electricity Usage (kWh)
Warehousing	\$0.08	26,849
Warehousing	\$0.08	6,712
TOTAL PROJECT CONSTRUCTION ELECTRICITY USAGE (kWh)		33,561

4.3.2 CONSTRUCTION EQUIPMENT FUEL ESTIMATES

Fuel consumed by construction equipment would be the primary energy resource expended over the course of Project construction. Project construction activity timeline estimates, construction equipment schedules, equipment power ratings, load factors, and associated fuel consumption estimates are presented in Table 4-3. Eight-hour daily use of all equipment is assumed. The aggregate fuel consumption rate for all equipment is estimated at 18.5 horsepower hour per gallon (hp-hr-gal.), obtained from CARB 2018 Emissions Factors Tables and cited fuel consumption rate factors presented in Table D-24 of the Moyer guidelines (25). For the purposes of this analysis, the calculations are based on all construction equipment being diesel-powered which is standard practice consistent with industry standards. Diesel fuel would be supplied by existing commercial fuel providers serving the County and region.

As presented in Table 4-3, Project construction activities would consume an estimated 34,601 gallons of diesel fuel. Project construction would represent a “single-event” diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

TABLE 4-3: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES

Activity/Duration	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption (gal. diesel fuel)
Demolition (60 days)	Concrete/Industrial Saws	81	1	8	0.73	473	1,534
	Excavators	158	3	8	0.38	1,441	4,673
	Rubber Tired Dozers	247	2	8	0.40	1,581	5,127
Site Preparation (10 days)	Rubber Tired Dozers	247	3	8	0.40	2,371	1,282
	Tractors/Loaders/Backhoes	97	4	8	0.37	1,148	621
Grading (30 days)	Excavators	158	2	8	0.38	961	1,558
	Graders	187	1	8	0.41	613	995
	Rubber Tired Dozers	247	1	8	0.40	790	1,282
	Scrapers	367	2	8	0.48	2,819	4,571
	Tractors/Loaders/Backhoes	97	2	8	0.37	574	931
Building Construction (70 days)	Cranes	231	1	8	0.29	536	2,028
	Forklifts	89	3	8	0.20	427	1,616
	Generator Sets	84	1	8	0.74	497	1,882
	Tractors/Loaders/Backhoes	97	3	8	0.37	861	3,259
	Welders	46	1	8	0.45	166	627
Paving (20 days)	Pavers	130	2	8	0.42	874	944
	Paving Equipment	132	2	8	0.36	760	822
	Rollers	80	2	8	0.38	486	526
Architectural Coating (20 days)	Air Compressors	78	1	8	0.48	300	324
TOTAL CONSTRUCTION PROCESS FUEL DEMAND (GALLONS DIESEL FUEL)							34,601

4.3.3 CONSTRUCTION WORKER FUEL ESTIMATES

It is assumed that all construction worker trips are from light duty autos (LDA) along area roadways. With respect to estimated vehicle miles traveled (VMT), the construction worker trips would generate an estimated 2303,49 VMT (22). Data regarding Project related construction worker trips were based on CalEEMod defaults utilized within the AQIA.

Vehicle fuel efficiencies for LDA were estimated using information generated within the 2017 version of the Emissions FACTor model (EMFAC) developed by CARB. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, and VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (26). EMFAC2017 was run for the LDA vehicle class within the California sub-area for the 2020 calendar year. Data from EMFAC2017 is shown in Appendix 3.4.

As generated by EMFAC2017, an aggregated fuel economy of LDAs ranging from model year 1974 to model years 2020 are estimated to have fuel efficiencies of 30.39 miles per gallon (mpg), respectively. Table 4-4 provides an estimated annual fuel consumption resulting from the Project generated by LDAs related to construction worker trips. Based on Table 4-4, it is estimated that 7,579 gallons of fuel will be consumed related to construction worker trips during full construction of the proposed Project. Project construction worker trips would represent a “single-event” gasoline fuel demand and would not require on-going or permanent commitment of fuel resources for this purpose.

TABLE 4-4: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES

Construction Activity	Worker Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Demolition (60 days)	15	14.7	13,230	30.39	435
Site Preparation (10 days)	18	14.7	2,646	30.39	87
Grading (30 days)	20	14.7	8,820	30.39	290
Building Construction (70 days)	185	14.7	190,365	30.39	6,263
Paving (20 days)	15	14.7	4,410	30.39	145
Architectural Coating (20 days)	37	14.7	10,878	30.39	358
TOTAL CONSTRUCTION WORKER FUEL CONSUMPTION					7,579

4.3.4 CONSTRUCTION VENDOR/HAULING FUEL ESTIMATES

With respect to estimated VMT, the construction vendor/hauling trips would generate an estimated 115,676 VMT along area roadways (22). It is assumed that 50% of all vendor trips are from medium-heavy duty trucks (MHDT) and 50% are from heavy-heavy duty trucks (HHDT). It is assumed that 100% of all hauling trips are from HHDT. These assumptions are consistent with the CalEEMod defaults utilized within the within the AQIA (22). Vehicle fuel efficiencies for MHDTs and HHDTs were estimated using information generated within EMFAC2017. For purposes of this analysis, as all vendor and hauling activities occur during 2020, EMFAC2017 was run for the MHDT and HHDT vehicle class within the California sub-area for the 2020 calendar year. Data from EMFAC2017 is shown in Appendix 3.4.

As generated by EMFAC2017, an aggregated fuel economy of MHDTs and HHDTs ranging from model year 1974 to model year 2020 are estimated to have a fuel efficiency of 9.29 mpg and 6.49 mpg respectively. Based on Table 4-5, it is estimated that 1,872 gallons of fuel will be consumed related to construction vendor trips (MHDTs) during full construction of the proposed Project.

TABLE 4-5: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (MHDT)

Construction Activity	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Vendor					
Building Construction (70 days)	36	6.9	17,388	9.29	1,872
PROJECT MHDT TOTAL					1,872

Table 4-6 shows the estimated fuel economy of HHDTs accessing the Project site. Based on Table 4-6, fuel consumption from construction vendor and hauling trips (HHDTs) will total approximately 15,139 gallons.

TABLE 4-6: CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION ESTIMATES (HHDT)

Construction Activity	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Vendor					
Building Construction (70 days)	36	6.9	17,388	6.49	2,678
Hauling					
Demolition (60 days)	910	20	18,200	6.49	2,803
Grading (30 days)	3,135	20	62,700	6.49	9,658
PROJECT HHDT TOTAL					15,139

The total fuel consumption from construction vendor and hauling trips (MHDTs and HHDTs) is 17,012 gallons. Project construction vendor trips would represent a “single-event” diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

4.3.5 CONSTRUCTION ENERGY EFFICIENCY/CONSERVATION MEASURES

The equipment used for Project construction would conform to CARB regulations and California emissions standards. There are no unusual Project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities; or equipment that would not conform to current emissions standards (and related fuel efficiencies). Equipment employed in construction of the Project would therefore not result in inefficient wasteful, or unnecessary consumption of fuel.

The Project would utilize construction contractors which practice compliance with applicable CARB regulation regarding retrofiting, repowering, or replacement of diesel off-road construction equipment. Additionally, CARB has adopted the Airborne Toxic Control Measure to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter and other Toxic Air Contaminants. Compliance with anti-idling and emissions regulations would result in a more efficient use of construction-related energy and the minimization or elimination of wasteful or unnecessary consumption of energy. Idling restrictions and the use of newer engines and equipment would result in less fuel combustion and energy consumption.

Additionally, certain incidental construction-source energy efficiencies would likely accrue through implementation of California regulations and best available control measures (BACM). More specifically, CCR Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than five minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. To this end, “grading plans shall reference the requirement that a sign shall be posted on-site stating that construction workers need to shut off engines at or before five minutes of idling.” In this manner, construction equipment operators are informed that engines are to be turned off at or prior to five minutes of idling. Enforcement of idling limitations is realized through periodic site inspections conducted by County building officials, and/or in response to citizen complaints.

Indirectly, construction energy efficiencies and energy conservation would be achieved for the proposed development through energy efficiencies realized from bulk purchase, transport and use of construction materials.

A full analysis related to the energy needed to form construction materials is not included in this analysis due to a lack of detailed Project-specific information on construction materials. At this time, an analysis of the energy needed to create Project-related construction materials would be extremely speculative and thus has not been prepared.

In general, the construction processes promote conservation and efficient use of energy by reducing raw materials demands, with related reduction in energy demands associated with raw materials extraction, transportation, processing and refinement. Use of materials in bulk reduces

energy demands associated with preparation and transport of construction materials as well as the transport and disposal of construction waste and solid waste in general, with corollary reduced demands on area landfill capacities and energy consumed by waste transport and landfill operations.

4.4 OPERATIONAL ENERGY DEMANDS

Energy that would be consumed by Project-generated traffic is a function of total VMT and estimated vehicle fuel economies of vehicles accessing the Project site.

LIGHT-DUTY AUTOS

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project's AQIA, the Project would generate an estimated 710,361 annual VMT along area roadways for all LDAs with full build-out of the Project (22). As generated by EMFAC2017, an aggregated fuel economy of LDAs ranging from model year 1974 to model year 2020 are estimated to have a fuel efficiency of 30.39 mpg. Table 4-7 provides an estimated range of annual fuel consumption resulting from Project generated LDAs. Based on Table 4-7, it is estimated that 23,372 gallons of fuel will be consumed from Project generated LDA trips.

TABLE 4-7: PROJECT-GENERATED LDA VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
710,361	30.39	23,372

LIGHT-DUTY TRUCKS

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project's AQIA, the Project would generate an estimated 49,447 annual VMT along area roadways for all light-duty trucks (LDT1)² vehicles with full build-out of the Project (22). As generated by EMFAC2017, an aggregated fuel economy of LDT1s ranging from model year 1974 to model year 2020 are estimated to have a fuel efficiency of 25.55 mpg. Table 4-8 provides an estimated range of annual fuel consumption resulting from Project generated LDT1s. Based on Table 4-8, it is estimated that 1,935 gallons of fuel will be consumed from Project generated LDT1 trips.

TABLE 4-8: PROJECT-GENERATED LDT1 VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
49,447	25.55	1,935

² 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.

Additionally, the Project would generate an estimated 232,945 annual VMT along area roadways for all LDT2³ vehicles with full build-out of the Project (22). As generated by EMFAC2017, an aggregated fuel economy of LDT2s ranging from model year 1974 to model year 2020 are estimated to have a fuel efficiency of 23.52 mpg. Table 4-9 provides an estimated range of annual fuel consumption resulting from Project generated LDT2s. Based on Table 4-9, it is estimated that 9,904 gallons of fuel will be consumed from Project generated LDT2 trips.

TABLE 4-9: PROJECT-GENERATED LDT2 VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
232,945	23.52	9,904

MEDIUM-DUTY TRUCKS

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project's AQIA, the Project would generate an estimated 159,869 annual VMT along area roadways for all medium-duty trucks (MDV) vehicles with full build-out of the Project (22). As generated by EMFAC2017, an aggregated fuel economy of MDVs ranging from model year 1974 to model year 2020 are estimated to have a fuel efficiency of 19.16 mpg. Table 4-10 provides an estimated range of annual fuel consumption resulting from Project generated MDVs. Based on Table 4-10, it is estimated that 8,345 gallons of fuel will be consumed from Project generated MDV trips.

TABLE 4-10: PROJECT-GENERATED MDV VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
159,869	19.16	8,345

LIGHT-HEAVY DUTY TRUCKS

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project's AQIA, the Project would generate an estimated 206,519 annual VMT along area roadways for all light-heavy-duty trucks (LHDTs) with full build-out of the Project (22). As generated by EMFAC2017, an aggregated fuel economy of LHDTs ranging from model year 1974 to model year 2020 are estimated to have a fuel efficiency of 13.56 mpg. Table 4-11 provides an estimated range of annual fuel consumption resulting from Project generated LHDTs. Based on Table 4-11, it is estimated that 15,235 gallons of fuel will be consumed from Project generated LHDT trips.

³ 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 4-11: PROJECT-GENERATED LHDT TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
206,519	13.56	15,235

MEDIUM-HEAVY DUTY TRUCKS

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project's AQIA, the Project would generate an estimated 140,945 annual VMT along area roadways for all MHDTs with full build-out of the Project (22). As generated by EMFAC2017, an aggregated fuel economy of MHDTs ranging from model year 1974 to model year 2020 are estimated to have a fuel efficiency of 9.29 mpg. Table 4-12 provides an estimated range of annual fuel consumption resulting from Project generated MHDTs. Based on Table 4-12, it is estimated that 15,177 gallons of fuel will be consumed from Project generated MHDT trips.

TABLE 4-12: PROJECT-GENERATED MHDT TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
140,945	9.29	15,177

HEAVY-HEAVY DUTY TRUCKS

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project's AQIA, the Project would generate an estimated 513,254 annual VMT along area roadways for all HHDTs with full build-out of the Project (22). As generated by EMFAC2017, an aggregated fuel economy of HHDTs ranging from model year 1974 to model year 2020 are estimated to have a fuel efficiency of 6.49 mpg. Table 4-13 provides an estimated range of annual fuel consumption resulting from Project generated HHDTs. Based on Table 4-13, it is estimated that 79,056 gallons of fuel will be consumed from Project generated HHDT trips.

TABLE 4-13: PROJECT-GENERATED HHDT TRAFFIC ANNUAL FUEL CONSUMPTION

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
513,254	6.49	79,056

As summarized on Table 4-14, the Project will result in 2,013,340 annual VMT and an estimated annual fuel consumption of 153,024 gallons of fuel.

TABLE 4-14: PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (ALL VEHICLES)

Vehicle Type	Annual VMT	Estimated Annual Fuel Consumption (gallons)
LDA	710,361	23,372
LDT1	49,447	1,935
LDT2	232,945	9,904
MDV	159,869	8,345
LHDT	206,519	15,235
MHDT	140,945	15,177
HHDT	513,254	79,056
Total (All Vehicles)	2,013,340	153,024

4.4.2 FACILITY ENERGY DEMANDS

Energy use in buildings is divided into energy consumed by the built environment and energy consumed by uses that are independent of the construction of the building such as in plug-in appliances. In California, the California Building Standards Code Title 24 governs energy consumed by the built environment, mechanical systems, and some types of fixed lighting (27). Non-building energy use, or “plug-in” energy use can be further subdivided by specific end-use (refrigeration, cooking, appliances, etc.).

4.4.2 FACILITY ENERGY DEMANDS

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 SoCalGas; electricity would be supplied to the Project by SCE. Annual natural gas and electricity demands of the Project are summarized in Table 4-15.

Energy use in buildings is divided into energy consumed by the built environment and energy consumed by uses that are independent of the construction of the building such as in plug-in appliances. In California, the California Building Standards Code Title 24 governs energy consumed by the built environment, mechanical systems, and some types of fixed lighting (27). Non-building energy use, or “plug-in” energy use can be further subdivided by specific end-use (refrigeration, cooking, appliances, etc.).

TABLE 4-15: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY

Natural Gas Demand	kBTU/year
Other Asphalt Surfaces	0
Other Non-Asphalt Surfaces	0
Parking Lot	0
High-Cube Cold Storage Warehouse	1,679,370
Warehousing	189,130
TOTAL PROJECT NATURAL GAS DEMAND	1,868,500
Electricity Demand	kWh/year
Other Asphalt Surfaces	0
Other Non-Asphalt Surfaces	0
Parking Lot	24,500
High-Cube Cold Storage Warehouse	1,286,890
Warehousing	251,292
TOTAL PROJECT ELECTRICITY DEMAND	1,562,682

kBTU – kilo-British Thermal Units

4.4.3 OPERATIONAL ENERGY EFFICIENCY/CONSERVATION MEASURES

Energy efficiency/energy conservation attributes of the Project would be complemented by increasingly stringent state and federal regulatory actions addressing vehicle fuel economies and vehicle emissions standards; and enhanced building/utilities energy efficiencies mandated under California building codes (e.g., Title24, California Green Building Standards Code).

It should also be noted that the Project would not result in a substantial increase in demand or transmission service, resulting in the need for new or expanded sources of energy supply or new or expanded energy delivery systems or infrastructure because it would be served by the existing electric utility lines in the Project vicinity.

Enhanced Vehicle Fuel Efficiencies

Project annual fuel consumption estimates presented previously in Tables 4-14 represent likely potential maximums that would occur for the Project. Under subsequent future conditions, average fuel economies of vehicles accessing the Project site can be expected to improve as older, less fuel-efficient vehicles are removed from circulation, and in response to fuel economy and emissions standards imposed on newer vehicles entering the circulation system.

4.5 SUMMARY

4.5.1 CONSTRUCTION ENERGY DEMANDS

The estimated power cost of on-site electricity usage during the construction of the proposed Project is assumed to be around \$2,684,86. Additionally, based on the assumed power cost, it is estimated that the total electricity usage during construction, after full Project build-out, is calculated to be around 33,561 kWh.

Construction equipment used by the Project would result in single event consumption of approximately 34,601 gallons of diesel fuel. Construction equipment use of fuel would not be atypical for the type of construction proposed because there are no aspects of the Project's proposed construction process that are unusual or energy-intensive, and Project construction equipment would conform to the applicable CARB emissions standards, acting to promote equipment fuel efficiencies.

CCR Title 13, Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than 5 minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. BACMs inform construction equipment operators of this requirement. Enforcement of idling limitations is realized through periodic site inspections conducted by County building officials, and/or in response to citizen complaints.

Construction worker trips for full construction of the proposed Project would result in the estimated fuel consumption of 7,579 gallons of fuel. Additionally, fuel consumption from construction vendor and hauling trips (MHDTs and HHDTs) will total approximately 17,012 gallons. Diesel fuel would be supplied by County and regional commercial vendors. Indirectly, construction energy efficiencies and energy conservation would be achieved through the use of bulk purchases, transport and use of construction materials. The 2018 IEPR released by the CEC has shown that fuel efficiencies are getting better within on and off-road vehicle engines due to more stringent government requirements (19). As supported by the preceding discussions, Project construction energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

4.5.2 OPERATIONAL ENERGY DEMANDS

Transportation Energy Demands

Annual vehicular trips and related VMT generated by the operational of the Project would result in an estimated 23,372 gallons of fuel consumption per year for LDAs, 1,935 gallons of fuel for LDT1s, 9,904 gallons of fuel for LDT2s, and 8,345 gallons for fuel for MDVs. Additionally, the operational of the Project would result in an estimated 15,235 gallons of fuel consumption per year for LHDTs, an estimated 15,177 gallons of fuel consumption per year for MHDTs, and 79,056 gallons of fuel consumption per year for HHDTs for the year 2020. The total estimated annual fuel consumption from Project generated VMT would result in a fuel demand 153,024 gallons of fuel.

Fuel would be provided by current and future commercial vendors. Trip generation and VMT generated by the Project are consistent with other industrial uses of similar scale and configuration, as reflected respectively in the Institute of Transportation Engineers (ITE) Trip Generation Manual (10th Ed., 2017); and CalEEMod. That is, the Project does not propose uses or operations that would inherently result in excessive and wasteful vehicle trips and VMT, nor associated excess and wasteful vehicle energy consumption.

Enhanced fuel economies realized pursuant to federal and state regulatory actions, and related transition of LDAs, LDT1s, LDT2s, MDVs, and LHDs to alternative energy sources (e.g., electricity, natural gas, biofuels, hydrogen cells) would likely decrease future gasoline fuel demands per VMT. Location of the Project proximate to regional and local roadway systems tends to reduce VMT within the region, acting to reduce regional vehicle energy demands. The Project would implement sidewalks, facilitating and encouraging pedestrian access. Facilitating pedestrian and bicycle access would reduce VMT and associated energy consumption. In compliance with the California Green Building Standards Code, the Project would promote the use of bicycles as an alternative mean of transportation by providing short-term and/or long-term bicycle parking accommodations. As supported by the preceding discussions, Project transportation energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

Facility Energy Demands

Project facility operational energy demands are estimated at: 1,868,500 kBTU/year of natural gas; and 1,562,682 kWh/year of electricity. Natural gas would be supplied to the Project by SoCalGas; electricity would be supplied by SCE. The Project proposes conventional warehouse uses reflecting contemporary energy efficient/energy conserving designs and operational programs. Uses proposed by the Project are not inherently energy intensive, and the Project energy demands in total would be comparable to, or less than, other industrial projects of similar scale and configuration.

Additionally, the Project is will be required to comply with the applicable Title 24 standards which will further ensure that the Project energy demands would not be inefficient, wasteful, or otherwise unnecessary.

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5 CONCLUSIONS

Energy Impact-1: Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation.

As supported by the preceding analyses, Project construction and operations would not result in the inefficient, wasteful or unnecessary consumption of energy. Further, the energy demands of the Project can be accommodated within the context of available resources and energy delivery systems. The Project would therefore not cause or result in the need for additional energy producing or transmission facilities. The Project would not engage in wasteful or inefficient uses of energy and aims to achieve energy conservations goals within the State of California.

Energy Impact-2: Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

Further, the proposed Project is subject to California Building Code requirements. New buildings must achieve the 2019 Building and Energy Efficiency Standards and the 2019 California Green Building Standards requirements.

The Project would provide for, and promote, energy efficiencies beyond those required under other applicable federal and State of California standards and regulations, and in so doing would meet or exceed all California Building Standards Code Title 24 standards. Moreover, energy consumed by the Project's operation is calculated to be comparable to, or less than, energy consumed by other industrial uses of similar scale and intensity that are constructed and operating in California. On this basis, the Project would not result in the inefficient, wasteful, or unnecessary consumption of energy. Further, the Project would not cause or result in the need for additional energy producing facilities or energy delivery systems.

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7 CERTIFICATIONS

The contents of this energy analysis report represent an accurate depiction of the environmental impacts associated with the proposed Kaiser Commerce Center Project. The information contained in this energy analysis 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 St., Suite 200
Costa Mesa, CA 92626
(949) 336-5987a
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 3.1:

CALEEMOD CONSTRUCTION EMISSIONS MODEL OUTPUTS

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

Kaiser Commerce Center (Construction - Unmitigated)
San Bernardino-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	33.07	1000sqft	0.76	33,065.00	0
Unrefrigerated Warehouse-No Rail	132.26	1000sqft	3.04	132,259.00	0
Other Asphalt Surfaces	139.85	1000sqft	3.21	139,847.00	0
Other Non-Asphalt Surfaces	66.24	1000sqft	1.52	66,235.00	0
Parking Lot	175.00	Space	1.60	70,000.00	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

Project Characteristics -

Land Use - Total Project Area is 10.13 acres.

Construction Phase - Construction Schedule adjusted to meet the 2020 Opening Year

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

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

Off-road Equipment -

Demolition -

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

Architectural Coating - Rule 1113

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	300.00	70.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	AcresOfGrading	75.00	90.00
tblGrading	AcresOfGrading	0.00	15.00
tblGrading	MaterialImported	0.00	25,077.00
tblLandUse	LotAcreage	1.57	1.60
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	31.08	0.00
tblSolidWaste	SolidWasteGenerationRate	124.32	0.00
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tblVehicleEF	HHD	0.13	0.00
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Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
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tblVehicleEF	HHD	9.6000e-005	0.00
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tblVehicleEF	HHD	1.08	0.69
tblVehicleEF	HHD	6.5000e-005	3.0000e-006
tblVehicleEF	HHD	0.14	0.18
tblVehicleEF	HHD	2.9100e-004	7.7100e-004
tblVehicleEF	HHD	0.08	1.0000e-006

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tblVehicleEF	HHD	1.19	0.03
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tblVehicleEF	HHD	0.06	0.06
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tblVehicleEF	HHD	2.9900e-004	7.9700e-004

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

tblVehicleEF	HHD	0.07	1.0000e-006
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Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

tblVehicleEF	HHD	0.02	0.02
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tblVehicleEF	HHD	7.0000e-005	1.0000e-006
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tblVehicleEF	HHD	6.4000e-005	3.0000e-006
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tblVehicleEF	HHD	3.1000e-004	8.0600e-004
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	9.6000e-005	0.00
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Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

tblVehicleEF	LDA	1.7360e-003	1.5890e-003
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tblVehicleEF	LDA	1.7360e-003	1.5890e-003
tblVehicleEF	LDA	2.3270e-003	2.0370e-003

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

tblVehicleEF	LDA	1.6000e-003	1.4630e-003
tblVehicleEF	LDA	2.1400e-003	1.8730e-003
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tblVehicleEF	LDT1	74.44	69.37
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tblVehicleEF	LDT1	4.1090e-003	3.3430e-003
tblVehicleEF	LDT1	2.7780e-003	2.4090e-003
tblVehicleEF	LDT1	3.7800e-003	3.0740e-003

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

tblVehicleEF	LDT1	0.21	0.23
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tblVehicleEF	LDT1	0.14	0.16
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tblVehicleEF	LDT1	0.38	0.31
tblVehicleEF	LDT1	0.14	0.16
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.23	1.04
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tblVehicleEF	LDT1	0.30	0.34
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tblVehicleEF	LDT1	0.26	1.22
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tblVehicleEF	LDT1	0.06	0.06
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tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.53
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tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.08	0.53
tblVehicleEF	LDT2	0.16	0.46
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tblVehicleEF	LDT2	1.12	1.42
tblVehicleEF	LDT2	1.72	2.48
tblVehicleEF	LDT2	409.49	383.08
tblVehicleEF	LDT2	84.46	74.56
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	1.7360e-003	1.6670e-003
tblVehicleEF	LDT2	2.4270e-003	2.1440e-003
tblVehicleEF	LDT2	1.5970e-003	1.5340e-003
tblVehicleEF	LDT2	2.2320e-003	1.9720e-003
tblVehicleEF	LDT2	0.15	0.23
tblVehicleEF	LDT2	0.17	0.20
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.52
tblVehicleEF	LDT2	0.12	0.35
tblVehicleEF	LDT2	4.1060e-003	3.7900e-003
tblVehicleEF	LDT2	8.7400e-004	7.3800e-004

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tblVehicleEF	LDT2	0.15	0.23
tblVehicleEF	LDT2	0.17	0.20
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.07	0.52
tblVehicleEF	LDT2	0.13	0.38
tblVehicleEF	LDT2	7.3800e-003	5.2940e-003
tblVehicleEF	LDT2	0.01	0.09
tblVehicleEF	LDT2	0.87	1.11
tblVehicleEF	LDT2	2.04	2.96
tblVehicleEF	LDT2	366.89	350.08
tblVehicleEF	LDT2	84.46	75.53
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	1.7360e-003	1.6670e-003
tblVehicleEF	LDT2	2.4270e-003	2.1440e-003
tblVehicleEF	LDT2	1.5970e-003	1.5340e-003
tblVehicleEF	LDT2	2.2320e-003	1.9720e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.16	0.19
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.09	0.61
tblVehicleEF	LDT2	0.14	0.41
tblVehicleEF	LDT2	3.6760e-003	3.4640e-003
tblVehicleEF	LDT2	8.8000e-004	7.4700e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.16	0.19

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tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.09	0.61
tblVehicleEF	LDT2	0.16	0.45
tblVehicleEF	LHD1	5.6900e-003	5.0880e-003
tblVehicleEF	LHD1	0.01	7.7680e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.18
tblVehicleEF	LHD1	1.27	1.08
tblVehicleEF	LHD1	2.93	1.12
tblVehicleEF	LHD1	9.23	9.45
tblVehicleEF	LHD1	620.09	663.36
tblVehicleEF	LHD1	31.53	11.23
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.40	1.84
tblVehicleEF	LHD1	9.6100e-004	9.3100e-004
tblVehicleEF	LHD1	0.01	9.9320e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0840e-003	2.9900e-004
tblVehicleEF	LHD1	9.1900e-004	8.9100e-004
tblVehicleEF	LHD1	2.5180e-003	2.4830e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.9800e-004	2.7500e-004
tblVehicleEF	LHD1	3.8770e-003	3.4930e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8640e-003	1.6570e-003

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tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.35	0.65
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	6.0910e-003	6.4590e-003
tblVehicleEF	LHD1	3.7100e-004	1.1100e-004
tblVehicleEF	LHD1	3.8770e-003	3.4930e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8640e-003	1.6570e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.35	0.65
tblVehicleEF	LHD1	0.33	0.10
tblVehicleEF	LHD1	5.6900e-003	5.1040e-003
tblVehicleEF	LHD1	0.02	7.9500e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.18
tblVehicleEF	LHD1	1.29	1.10
tblVehicleEF	LHD1	2.74	1.04
tblVehicleEF	LHD1	9.23	9.45
tblVehicleEF	LHD1	620.09	663.40
tblVehicleEF	LHD1	31.53	11.10
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.25	1.73
tblVehicleEF	LHD1	9.6100e-004	9.3100e-004
tblVehicleEF	LHD1	0.01	9.9320e-003
tblVehicleEF	LHD1	0.02	0.01

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tblVehicleEF	LHD1	1.0840e-003	2.9900e-004
tblVehicleEF	LHD1	9.1900e-004	8.9100e-004
tblVehicleEF	LHD1	2.5180e-003	2.4830e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.9800e-004	2.7500e-004
tblVehicleEF	LHD1	7.6890e-003	6.9750e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.2920e-003	3.8740e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.66
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	6.0910e-003	6.4590e-003
tblVehicleEF	LHD1	3.6700e-004	1.1000e-004
tblVehicleEF	LHD1	7.6890e-003	6.9750e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.2920e-003	3.8740e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.35	0.66
tblVehicleEF	LHD1	0.32	0.10
tblVehicleEF	LHD1	5.6900e-003	5.0910e-003
tblVehicleEF	LHD1	0.01	7.7840e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.18
tblVehicleEF	LHD1	1.27	1.08

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tblVehicleEF	LHD1	2.88	1.10
tblVehicleEF	LHD1	9.23	9.45
tblVehicleEF	LHD1	620.09	663.36
tblVehicleEF	LHD1	31.53	11.20
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.36	1.81
tblVehicleEF	LHD1	9.6100e-004	9.3100e-004
tblVehicleEF	LHD1	0.01	9.9320e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0840e-003	2.9900e-004
tblVehicleEF	LHD1	9.1900e-004	8.9100e-004
tblVehicleEF	LHD1	2.5180e-003	2.4830e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.9800e-004	2.7500e-004
tblVehicleEF	LHD1	4.3010e-003	3.9210e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8380e-003	1.6360e-003
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.38	0.70
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	6.0910e-003	6.4590e-003
tblVehicleEF	LHD1	3.7000e-004	1.1100e-004
tblVehicleEF	LHD1	4.3010e-003	3.9210e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.03

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tblVehicleEF	LHD1	1.8380e-003	1.6360e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.38	0.70
tblVehicleEF	LHD1	0.33	0.10
tblVehicleEF	LHD2	4.0010e-003	3.4940e-003
tblVehicleEF	LHD2	5.9170e-003	4.8970e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.14
tblVehicleEF	LHD2	0.63	0.67
tblVehicleEF	LHD2	1.40	0.67
tblVehicleEF	LHD2	14.35	14.68
tblVehicleEF	LHD2	619.96	664.05
tblVehicleEF	LHD2	25.37	8.14
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.91	1.99
tblVehicleEF	LHD2	1.3140e-003	1.3790e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.6400e-004	1.4200e-004
tblVehicleEF	LHD2	1.2570e-003	1.3190e-003
tblVehicleEF	LHD2	2.6760e-003	2.6850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.2700e-004	1.3000e-004
tblVehicleEF	LHD2	1.5090e-003	1.7180e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7800e-004	8.5100e-004

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tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.11	0.33
tblVehicleEF	LHD2	0.14	0.05
tblVehicleEF	LHD2	6.0350e-003	6.4090e-003
tblVehicleEF	LHD2	2.8000e-004	8.1000e-005
tblVehicleEF	LHD2	1.5090e-003	1.7180e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7800e-004	8.5100e-004
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.11	0.33
tblVehicleEF	LHD2	0.15	0.06
tblVehicleEF	LHD2	4.0010e-003	3.5050e-003
tblVehicleEF	LHD2	6.0090e-003	4.9550e-003
tblVehicleEF	LHD2	9.7620e-003	0.01
tblVehicleEF	LHD2	0.13	0.14
tblVehicleEF	LHD2	0.63	0.68
tblVehicleEF	LHD2	1.32	0.63
tblVehicleEF	LHD2	14.35	14.68
tblVehicleEF	LHD2	619.96	664.06
tblVehicleEF	LHD2	25.37	8.07
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.80	1.87
tblVehicleEF	LHD2	1.3140e-003	1.3790e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.6400e-004	1.4200e-004

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tblVehicleEF	LHD2	1.2570e-003	1.3190e-003
tblVehicleEF	LHD2	2.6760e-003	2.6850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.2700e-004	1.3000e-004
tblVehicleEF	LHD2	2.9270e-003	3.3570e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.7180e-003	1.9120e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.11	0.33
tblVehicleEF	LHD2	0.13	0.05
tblVehicleEF	LHD2	6.0350e-003	6.4090e-003
tblVehicleEF	LHD2	2.7800e-004	8.0000e-005
tblVehicleEF	LHD2	2.9270e-003	3.3570e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.7180e-003	1.9120e-003
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.11	0.33
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.0010e-003	3.4970e-003
tblVehicleEF	LHD2	5.9270e-003	4.9040e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.14
tblVehicleEF	LHD2	0.63	0.67
tblVehicleEF	LHD2	1.38	0.66
tblVehicleEF	LHD2	14.35	14.68

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tblVehicleEF	LHD2	619.96	664.05
tblVehicleEF	LHD2	25.37	8.12
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.88	1.96
tblVehicleEF	LHD2	1.3140e-003	1.3790e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.6400e-004	1.4200e-004
tblVehicleEF	LHD2	1.2570e-003	1.3190e-003
tblVehicleEF	LHD2	2.6760e-003	2.6850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.2700e-004	1.3000e-004
tblVehicleEF	LHD2	1.5970e-003	1.8540e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.6400e-004	8.3300e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.11	0.35
tblVehicleEF	LHD2	0.14	0.05
tblVehicleEF	LHD2	6.0350e-003	6.4090e-003
tblVehicleEF	LHD2	2.7900e-004	8.0000e-005
tblVehicleEF	LHD2	1.5970e-003	1.8540e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.6400e-004	8.3300e-004
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.11	0.35

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tblVehicleEF	LHD2	0.15	0.06
tblVehicleEF	MCY	0.41	0.33
tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	21.63	21.70
tblVehicleEF	MCY	9.90	8.75
tblVehicleEF	MCY	166.31	211.44
tblVehicleEF	MCY	47.31	62.20
tblVehicleEF	MCY	1.17	1.18
tblVehicleEF	MCY	1.7690e-003	1.7420e-003
tblVehicleEF	MCY	3.8320e-003	3.1620e-003
tblVehicleEF	MCY	1.6590e-003	1.6340e-003
tblVehicleEF	MCY	3.6220e-003	2.9860e-003
tblVehicleEF	MCY	1.45	1.43
tblVehicleEF	MCY	0.86	0.84
tblVehicleEF	MCY	0.81	0.80
tblVehicleEF	MCY	2.28	2.28
tblVehicleEF	MCY	0.51	2.16
tblVehicleEF	MCY	2.19	1.93
tblVehicleEF	MCY	2.0810e-003	2.0920e-003
tblVehicleEF	MCY	7.0000e-004	6.1600e-004
tblVehicleEF	MCY	1.45	1.43
tblVehicleEF	MCY	0.86	0.84
tblVehicleEF	MCY	0.81	0.80
tblVehicleEF	MCY	2.77	2.77
tblVehicleEF	MCY	0.51	2.16
tblVehicleEF	MCY	2.38	2.10
tblVehicleEF	MCY	0.41	0.33

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tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	21.75	21.83
tblVehicleEF	MCY	9.07	7.97
tblVehicleEF	MCY	166.31	211.41
tblVehicleEF	MCY	47.31	60.03
tblVehicleEF	MCY	1.00	1.00
tblVehicleEF	MCY	1.7690e-003	1.7420e-003
tblVehicleEF	MCY	3.8320e-003	3.1620e-003
tblVehicleEF	MCY	1.6590e-003	1.6340e-003
tblVehicleEF	MCY	3.6220e-003	2.9860e-003
tblVehicleEF	MCY	3.14	3.12
tblVehicleEF	MCY	1.28	1.27
tblVehicleEF	MCY	2.15	2.12
tblVehicleEF	MCY	2.21	2.21
tblVehicleEF	MCY	0.50	2.15
tblVehicleEF	MCY	1.88	1.65
tblVehicleEF	MCY	2.0810e-003	2.0920e-003
tblVehicleEF	MCY	6.7600e-004	5.9400e-004
tblVehicleEF	MCY	3.14	3.12
tblVehicleEF	MCY	1.28	1.27
tblVehicleEF	MCY	2.15	2.12
tblVehicleEF	MCY	2.70	2.69
tblVehicleEF	MCY	0.50	2.15
tblVehicleEF	MCY	2.05	1.79
tblVehicleEF	MCY	0.41	0.33
tblVehicleEF	MCY	0.15	0.25
tblVehicleEF	MCY	20.62	20.68

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tblVehicleEF	MCY	9.51	8.39
tblVehicleEF	MCY	166.31	209.68
tblVehicleEF	MCY	47.31	61.38
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	1.7690e-003	1.7420e-003
tblVehicleEF	MCY	3.8320e-003	3.1620e-003
tblVehicleEF	MCY	1.6590e-003	1.6340e-003
tblVehicleEF	MCY	3.6220e-003	2.9860e-003
tblVehicleEF	MCY	1.71	1.69
tblVehicleEF	MCY	1.15	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.24	2.23
tblVehicleEF	MCY	0.57	2.45
tblVehicleEF	MCY	2.11	1.85
tblVehicleEF	MCY	2.0640e-003	2.0750e-003
tblVehicleEF	MCY	6.9100e-004	6.0700e-004
tblVehicleEF	MCY	1.71	1.69
tblVehicleEF	MCY	1.15	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.73	2.72
tblVehicleEF	MCY	0.57	2.45
tblVehicleEF	MCY	2.30	2.01
tblVehicleEF	MDV	0.02	7.4600e-003
tblVehicleEF	MDV	0.02	0.11
tblVehicleEF	MDV	1.73	1.47
tblVehicleEF	MDV	3.93	3.71
tblVehicleEF	MDV	510.99	438.31

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tblVehicleEF	MDV	113.32	92.88
tblVehicleEF	MDV	0.22	0.16
tblVehicleEF	MDV	1.8900e-003	1.7940e-003
tblVehicleEF	MDV	2.6570e-003	2.2880e-003
tblVehicleEF	MDV	1.7440e-003	1.6560e-003
tblVehicleEF	MDV	2.4460e-003	2.1070e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.11	0.55
tblVehicleEF	MDV	0.31	0.54
tblVehicleEF	MDV	5.1260e-003	4.3340e-003
tblVehicleEF	MDV	1.2030e-003	9.1900e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.11	0.55
tblVehicleEF	MDV	0.34	0.59
tblVehicleEF	MDV	0.02	8.4130e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	2.07	1.77
tblVehicleEF	MDV	3.28	3.07
tblVehicleEF	MDV	556.34	466.62
tblVehicleEF	MDV	113.32	91.58
tblVehicleEF	MDV	0.20	0.14

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tblVehicleEF	MDV	1.8900e-003	1.7940e-003
tblVehicleEF	MDV	2.6570e-003	2.2880e-003
tblVehicleEF	MDV	1.7440e-003	1.6560e-003
tblVehicleEF	MDV	2.4460e-003	2.1070e-003
tblVehicleEF	MDV	0.21	0.26
tblVehicleEF	MDV	0.25	0.22
tblVehicleEF	MDV	0.18	0.22
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.55
tblVehicleEF	MDV	0.26	0.45
tblVehicleEF	MDV	5.5850e-003	4.6140e-003
tblVehicleEF	MDV	1.1910e-003	9.0600e-004
tblVehicleEF	MDV	0.21	0.26
tblVehicleEF	MDV	0.25	0.22
tblVehicleEF	MDV	0.18	0.22
tblVehicleEF	MDV	0.07	0.05
tblVehicleEF	MDV	0.11	0.55
tblVehicleEF	MDV	0.29	0.50
tblVehicleEF	MDV	0.01	7.2640e-003
tblVehicleEF	MDV	0.02	0.11
tblVehicleEF	MDV	1.63	1.39
tblVehicleEF	MDV	3.86	3.65
tblVehicleEF	MDV	500.39	431.57
tblVehicleEF	MDV	113.32	92.77
tblVehicleEF	MDV	0.21	0.15
tblVehicleEF	MDV	1.8900e-003	1.7940e-003
tblVehicleEF	MDV	2.6570e-003	2.2880e-003

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tblVehicleEF	MDV	1.7440e-003	1.6560e-003
tblVehicleEF	MDV	2.4460e-003	2.1070e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.63
tblVehicleEF	MDV	0.31	0.54
tblVehicleEF	MDV	5.0190e-003	4.2670e-003
tblVehicleEF	MDV	1.2020e-003	9.1800e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.13	0.63
tblVehicleEF	MDV	0.34	0.59
tblVehicleEF	MH	0.04	3.9290e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	4.29	0.37
tblVehicleEF	MH	7.50	0.00
tblVehicleEF	MH	1,044.38	962.75
tblVehicleEF	MH	61.75	0.00
tblVehicleEF	MH	1.73	4.84
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.16
tblVehicleEF	MH	1.5070e-003	0.00
tblVehicleEF	MH	3.2190e-003	4.0000e-003

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tblVehicleEF	MH	0.04	0.15
tblVehicleEF	MH	1.3940e-003	0.00
tblVehicleEF	MH	1.65	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.01	9.1010e-003
tblVehicleEF	MH	7.4900e-004	0.00
tblVehicleEF	MH	1.65	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.19	0.10
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MH	0.05	3.9290e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	4.46	0.37
tblVehicleEF	MH	6.85	0.00
tblVehicleEF	MH	1,044.38	962.75
tblVehicleEF	MH	61.75	0.00
tblVehicleEF	MH	1.58	4.55
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.16
tblVehicleEF	MH	1.5070e-003	0.00
tblVehicleEF	MH	3.2190e-003	4.0000e-003

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tblVehicleEF	MH	0.04	0.15
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tblVehicleEF	MH	3.30	0.00
tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	1.37	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.01	9.1010e-003
tblVehicleEF	MH	7.3800e-004	0.00
tblVehicleEF	MH	3.30	0.00
tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	1.37	0.00
tblVehicleEF	MH	0.20	0.10
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.04	3.9290e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	4.28	0.37
tblVehicleEF	MH	7.39	0.00
tblVehicleEF	MH	1,044.38	962.75
tblVehicleEF	MH	61.75	0.00
tblVehicleEF	MH	1.69	4.76
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.16
tblVehicleEF	MH	1.5070e-003	0.00
tblVehicleEF	MH	3.2190e-003	4.0000e-003

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tblVehicleEF	MH	0.04	0.15
tblVehicleEF	MH	1.3940e-003	0.00
tblVehicleEF	MH	2.00	0.00
tblVehicleEF	MH	0.13	0.00
tblVehicleEF	MH	0.59	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.44	0.00
tblVehicleEF	MH	0.01	9.1010e-003
tblVehicleEF	MH	7.4700e-004	0.00
tblVehicleEF	MH	2.00	0.00
tblVehicleEF	MH	0.13	0.00
tblVehicleEF	MH	0.59	0.00
tblVehicleEF	MH	0.19	0.10
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MHD	0.02	3.2690e-003
tblVehicleEF	MHD	6.5200e-003	7.4410e-003
tblVehicleEF	MHD	0.06	9.2700e-003
tblVehicleEF	MHD	0.41	0.34
tblVehicleEF	MHD	0.48	0.67
tblVehicleEF	MHD	6.64	1.11
tblVehicleEF	MHD	157.61	72.65
tblVehicleEF	MHD	1,102.10	1,047.06
tblVehicleEF	MHD	54.49	8.73
tblVehicleEF	MHD	0.99	0.68
tblVehicleEF	MHD	1.67	2.66

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tblVehicleEF	MHD	2.8010e-003	2.4760e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.7800e-004	1.1500e-004
tblVehicleEF	MHD	2.6800e-003	2.3690e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.0700e-004	1.0600e-004
tblVehicleEF	MHD	1.5850e-003	7.5000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.7500e-004	3.6500e-004
tblVehicleEF	MHD	0.08	0.13
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.40	0.05
tblVehicleEF	MHD	1.5150e-003	6.8900e-004
tblVehicleEF	MHD	0.01	9.9770e-003
tblVehicleEF	MHD	6.6100e-004	8.6000e-005
tblVehicleEF	MHD	1.5850e-003	7.5000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.7500e-004	3.6500e-004
tblVehicleEF	MHD	0.09	0.15
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.44	0.05
tblVehicleEF	MHD	0.02	3.0990e-003
tblVehicleEF	MHD	6.6290e-003	7.5050e-003
tblVehicleEF	MHD	0.06	8.8360e-003
tblVehicleEF	MHD	0.29	0.28

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tblVehicleEF	MHD	0.49	0.68
tblVehicleEF	MHD	6.20	1.04
tblVehicleEF	MHD	166.94	74.24
tblVehicleEF	MHD	1,102.10	1,047.07
tblVehicleEF	MHD	54.49	8.61
tblVehicleEF	MHD	1.02	0.69
tblVehicleEF	MHD	1.57	2.50
tblVehicleEF	MHD	2.3620e-003	2.0900e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.7800e-004	1.1500e-004
tblVehicleEF	MHD	2.2590e-003	1.9990e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.0700e-004	1.0600e-004
tblVehicleEF	MHD	3.1650e-003	1.5010e-003
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.8350e-003	8.6900e-004
tblVehicleEF	MHD	0.08	0.13
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.38	0.05
tblVehicleEF	MHD	1.6030e-003	7.0400e-004
tblVehicleEF	MHD	0.01	9.9770e-003
tblVehicleEF	MHD	6.5400e-004	8.5000e-005
tblVehicleEF	MHD	3.1650e-003	1.5010e-003
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.8350e-003	8.6900e-004

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tblVehicleEF	MHD	0.09	0.15
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.42	0.05
tblVehicleEF	MHD	0.02	3.5160e-003
tblVehicleEF	MHD	6.5300e-003	7.4460e-003
tblVehicleEF	MHD	0.06	9.1670e-003
tblVehicleEF	MHD	0.56	0.43
tblVehicleEF	MHD	0.48	0.68
tblVehicleEF	MHD	6.52	1.09
tblVehicleEF	MHD	144.70	70.46
tblVehicleEF	MHD	1,102.10	1,047.06
tblVehicleEF	MHD	54.49	8.70
tblVehicleEF	MHD	0.94	0.66
tblVehicleEF	MHD	1.64	2.61
tblVehicleEF	MHD	3.4090e-003	3.0090e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.7800e-004	1.1500e-004
tblVehicleEF	MHD	3.2610e-003	2.8790e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.0700e-004	1.0600e-004
tblVehicleEF	MHD	1.7730e-003	8.4100e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.6800e-004	3.6200e-004
tblVehicleEF	MHD	0.08	0.13
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.40	0.05

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tblVehicleEF	MHD	1.3930e-003	6.6800e-004
tblVehicleEF	MHD	0.01	9.9770e-003
tblVehicleEF	MHD	6.5900e-004	8.6000e-005
tblVehicleEF	MHD	1.7730e-003	8.4100e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.6800e-004	3.6200e-004
tblVehicleEF	MHD	0.09	0.15
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.43	0.05
tblVehicleEF	OBUS	0.01	9.4880e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.27	0.49
tblVehicleEF	OBUS	0.84	1.38
tblVehicleEF	OBUS	7.08	2.89
tblVehicleEF	OBUS	69.66	68.94
tblVehicleEF	OBUS	1,125.58	1,531.86
tblVehicleEF	OBUS	71.49	22.61
tblVehicleEF	OBUS	0.36	0.44
tblVehicleEF	OBUS	1.31	1.73
tblVehicleEF	OBUS	1.6600e-004	2.0970e-003
tblVehicleEF	OBUS	6.3680e-003	0.03
tblVehicleEF	OBUS	9.0100e-004	2.3900e-004
tblVehicleEF	OBUS	1.5900e-004	2.0060e-003
tblVehicleEF	OBUS	6.0730e-003	0.03
tblVehicleEF	OBUS	8.2900e-004	2.2000e-004

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tblVehicleEF	OBUS	2.2890e-003	2.8330e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.6000e-004	1.1430e-003
tblVehicleEF	OBUS	0.05	0.10
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.44	0.14
tblVehicleEF	OBUS	6.7700e-004	6.5900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.3900e-004	2.2400e-004
tblVehicleEF	OBUS	2.2890e-003	2.8330e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.6000e-004	1.1430e-003
tblVehicleEF	OBUS	0.07	0.13
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.48	0.15
tblVehicleEF	OBUS	0.01	9.5010e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.26	0.46
tblVehicleEF	OBUS	0.86	1.41
tblVehicleEF	OBUS	6.48	2.65
tblVehicleEF	OBUS	72.76	69.63
tblVehicleEF	OBUS	1,125.58	1,531.92
tblVehicleEF	OBUS	71.49	22.21
tblVehicleEF	OBUS	0.37	0.44

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tblVehicleEF	OBUS	1.21	1.60
tblVehicleEF	OBUS	1.4000e-004	1.7700e-003
tblVehicleEF	OBUS	6.3680e-003	0.03
tblVehicleEF	OBUS	9.0100e-004	2.3900e-004
tblVehicleEF	OBUS	1.3400e-004	1.6940e-003
tblVehicleEF	OBUS	6.0730e-003	0.03
tblVehicleEF	OBUS	8.2900e-004	2.2000e-004
tblVehicleEF	OBUS	4.4650e-003	5.5400e-003
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tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	2.2300e-003	2.6720e-003
tblVehicleEF	OBUS	0.06	0.10
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.41	0.13
tblVehicleEF	OBUS	7.0700e-004	6.6500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2900e-004	2.2000e-004
tblVehicleEF	OBUS	4.4650e-003	5.5400e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.2300e-003	2.6720e-003
tblVehicleEF	OBUS	0.07	0.13
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.45	0.15
tblVehicleEF	OBUS	0.01	9.5070e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03

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tblVehicleEF	OBUS	0.29	0.52
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tblVehicleEF	OBUS	71.49	22.58
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tblVehicleEF	OBUS	1.28	1.70
tblVehicleEF	OBUS	2.0300e-004	2.5470e-003
tblVehicleEF	OBUS	6.3680e-003	0.03
tblVehicleEF	OBUS	9.0100e-004	2.3900e-004
tblVehicleEF	OBUS	1.9400e-004	2.4370e-003
tblVehicleEF	OBUS	6.0730e-003	0.03
tblVehicleEF	OBUS	8.2900e-004	2.2000e-004
tblVehicleEF	OBUS	2.4760e-003	3.1080e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.7500e-004	1.1620e-003
tblVehicleEF	OBUS	0.05	0.10
tblVehicleEF	OBUS	0.06	0.33
tblVehicleEF	OBUS	0.44	0.14
tblVehicleEF	OBUS	6.3600e-004	6.5000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.3800e-004	2.2300e-004
tblVehicleEF	OBUS	2.4760e-003	3.1080e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07

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tblVehicleEF	OBUS	9.7500e-004	1.1620e-003
tblVehicleEF	OBUS	0.07	0.13
tblVehicleEF	OBUS	0.06	0.33
tblVehicleEF	OBUS	0.48	0.15
tblVehicleEF	SBUS	0.87	0.04
tblVehicleEF	SBUS	0.01	7.8850e-003
tblVehicleEF	SBUS	0.08	3.7580e-003
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tblVehicleEF	SBUS	5.64	0.52
tblVehicleEF	SBUS	1,282.62	337.41
tblVehicleEF	SBUS	1,152.18	1,158.46
tblVehicleEF	SBUS	35.03	3.01
tblVehicleEF	SBUS	13.20	3.54
tblVehicleEF	SBUS	5.57	5.66
tblVehicleEF	SBUS	0.02	4.9280e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.0700e-004	2.8000e-005
tblVehicleEF	SBUS	0.01	4.7150e-003
tblVehicleEF	SBUS	2.7710e-003	2.7830e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.6600e-004	2.6000e-005
tblVehicleEF	SBUS	3.3280e-003	7.8600e-004
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tblVehicleEF	SBUS	0.67	0.18
tblVehicleEF	SBUS	1.3510e-003	3.4400e-004

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tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.29	0.02
tblVehicleEF	SBUS	0.01	3.2060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4800e-004	3.0000e-005
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tblVehicleEF	SBUS	0.95	0.26
tblVehicleEF	SBUS	1.3510e-003	3.4400e-004
tblVehicleEF	SBUS	0.15	0.13
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	0.87	0.04
tblVehicleEF	SBUS	0.01	7.9830e-003
tblVehicleEF	SBUS	0.06	3.1210e-003
tblVehicleEF	SBUS	5.38	1.70
tblVehicleEF	SBUS	0.78	0.67
tblVehicleEF	SBUS	3.86	0.37
tblVehicleEF	SBUS	1,348.56	346.48
tblVehicleEF	SBUS	1,152.18	1,158.48
tblVehicleEF	SBUS	35.03	2.75
tblVehicleEF	SBUS	13.63	3.62
tblVehicleEF	SBUS	5.22	5.31
tblVehicleEF	SBUS	0.01	4.1620e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04

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tblVehicleEF	SBUS	5.0700e-004	2.8000e-005
tblVehicleEF	SBUS	0.01	3.9820e-003
tblVehicleEF	SBUS	2.7710e-003	2.7830e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.6600e-004	2.6000e-005
tblVehicleEF	SBUS	6.4210e-003	1.4060e-003
tblVehicleEF	SBUS	0.03	6.2120e-003
tblVehicleEF	SBUS	0.66	0.18
tblVehicleEF	SBUS	3.0640e-003	6.6900e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.04
tblVehicleEF	SBUS	0.24	0.02
tblVehicleEF	SBUS	0.01	3.2910e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.1800e-004	2.7000e-005
tblVehicleEF	SBUS	6.4210e-003	1.4060e-003
tblVehicleEF	SBUS	0.03	6.2120e-003
tblVehicleEF	SBUS	0.95	0.26
tblVehicleEF	SBUS	3.0640e-003	6.6900e-004
tblVehicleEF	SBUS	0.15	0.13
tblVehicleEF	SBUS	0.01	0.04
tblVehicleEF	SBUS	0.26	0.02
tblVehicleEF	SBUS	0.88	0.04
tblVehicleEF	SBUS	0.01	7.8800e-003
tblVehicleEF	SBUS	0.08	3.8540e-003
tblVehicleEF	SBUS	5.77	1.80
tblVehicleEF	SBUS	0.77	0.66

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tblVehicleEF	SBUS	5.69	0.54
tblVehicleEF	SBUS	1,191.56	324.88
tblVehicleEF	SBUS	1,152.18	1,158.46
tblVehicleEF	SBUS	35.03	3.04
tblVehicleEF	SBUS	12.62	3.43
tblVehicleEF	SBUS	5.48	5.57
tblVehicleEF	SBUS	0.02	5.9860e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.0700e-004	2.8000e-005
tblVehicleEF	SBUS	0.02	5.7270e-003
tblVehicleEF	SBUS	2.7710e-003	2.7830e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.6600e-004	2.6000e-005
tblVehicleEF	SBUS	3.5990e-003	8.1900e-004
tblVehicleEF	SBUS	0.03	6.4950e-003
tblVehicleEF	SBUS	0.67	0.18
tblVehicleEF	SBUS	1.3510e-003	3.5700e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.30	0.02
tblVehicleEF	SBUS	0.01	3.0870e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4900e-004	3.0000e-005
tblVehicleEF	SBUS	3.5990e-003	8.1900e-004
tblVehicleEF	SBUS	0.03	6.4950e-003
tblVehicleEF	SBUS	0.96	0.26

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tblVehicleEF	SBUS	1.3510e-003	3.5700e-004
tblVehicleEF	SBUS	0.15	0.13
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.33	0.02
tblVehicleEF	UBUS	2.06	4.21
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	10.29	32.46
tblVehicleEF	UBUS	15.37	1.48
tblVehicleEF	UBUS	1,878.06	1,734.42
tblVehicleEF	UBUS	133.67	17.53
tblVehicleEF	UBUS	7.05	0.44
tblVehicleEF	UBUS	0.53	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	2.6710e-003
tblVehicleEF	UBUS	1.3540e-003	1.5800e-004
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.08	2.5430e-003
tblVehicleEF	UBUS	1.2450e-003	1.4500e-004
tblVehicleEF	UBUS	8.7400e-003	1.5800e-003
tblVehicleEF	UBUS	0.13	9.1420e-003
tblVehicleEF	UBUS	4.1930e-003	6.5600e-004
tblVehicleEF	UBUS	0.72	0.07
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.23	0.07
tblVehicleEF	UBUS	0.01	4.0080e-003
tblVehicleEF	UBUS	1.6160e-003	1.7300e-004

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

tblVehicleEF	UBUS	8.7400e-003	1.5800e-003
tblVehicleEF	UBUS	0.13	9.1420e-003
tblVehicleEF	UBUS	4.1930e-003	6.5600e-004
tblVehicleEF	UBUS	2.85	4.31
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.34	0.08
tblVehicleEF	UBUS	2.07	4.21
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	10.40	32.46
tblVehicleEF	UBUS	12.59	1.21
tblVehicleEF	UBUS	1,878.06	1,734.42
tblVehicleEF	UBUS	133.67	17.09
tblVehicleEF	UBUS	6.56	0.44
tblVehicleEF	UBUS	0.53	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	2.6710e-003
tblVehicleEF	UBUS	1.3540e-003	1.5800e-004
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.08	2.5430e-003
tblVehicleEF	UBUS	1.2450e-003	1.4500e-004
tblVehicleEF	UBUS	0.02	3.0300e-003
tblVehicleEF	UBUS	0.16	0.01
tblVehicleEF	UBUS	9.9910e-003	1.5490e-003
tblVehicleEF	UBUS	0.73	0.07
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.09	0.06

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

tblVehicleEF	UBUS	0.01	4.0080e-003
tblVehicleEF	UBUS	1.5680e-003	1.6900e-004
tblVehicleEF	UBUS	0.02	3.0300e-003
tblVehicleEF	UBUS	0.16	0.01
tblVehicleEF	UBUS	9.9910e-003	1.5490e-003
tblVehicleEF	UBUS	2.87	4.31
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.20	0.07
tblVehicleEF	UBUS	2.06	4.21
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	10.30	32.46
tblVehicleEF	UBUS	14.85	1.44
tblVehicleEF	UBUS	1,878.06	1,734.42
tblVehicleEF	UBUS	133.67	17.48
tblVehicleEF	UBUS	6.92	0.44
tblVehicleEF	UBUS	0.53	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	2.6710e-003
tblVehicleEF	UBUS	1.3540e-003	1.5800e-004
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.08	2.5430e-003
tblVehicleEF	UBUS	1.2450e-003	1.4500e-004
tblVehicleEF	UBUS	0.01	1.6780e-003
tblVehicleEF	UBUS	0.16	0.01
tblVehicleEF	UBUS	4.4110e-003	6.4600e-004
tblVehicleEF	UBUS	0.72	0.07

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tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	7,645,125.00	0.00
tblWater	IndoorWaterUseRate	30,585,125.00	0.00

2.0 Emissions Summary

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-4-2020	8-3-2020	1.3520	1.3520
2	8-4-2020	9-30-2020	1.4237	1.4237
		Highest	1.4237	1.4237

2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145
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	0.6964	6.0000e-005	7.0200e-003	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145
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	0.6964	6.0000e-005	7.0200e-003	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145

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

3.0 Construction Detail

Construction Phase

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/4/2020	7/24/2020	5	60	
2	Site Preparation	Site Preparation	7/25/2020	8/7/2020	5	10	
3	Grading	Grading	8/8/2020	9/18/2020	5	30	
4	Building Construction	Building Construction	9/19/2020	12/25/2020	5	70	
5	Paving	Paving	11/28/2020	12/25/2020	5	20	
6	Architectural Coating	Architectural Coating	11/28/2020	12/25/2020	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 6.33

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 247,986; Non-Residential Outdoor: 82,662; Striped Parking Area: 16,565 (Architectural Coating – sqft)

OffRoad Equipment

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

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

Trips and VMT

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	910.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	3,135.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	185.00	72.00	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	37.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0985	0.0000	0.0985	0.0149	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0994	0.9960	0.6526	1.1600e-003		0.0498	0.0498		0.0463	0.0463	0.0000	101.9958	101.9958	0.0288	0.0000	102.7156
Total	0.0994	0.9960	0.6526	1.1600e-003	0.0985	0.0498	0.1483	0.0149	0.0463	0.0612	0.0000	101.9958	101.9958	0.0288	0.0000	102.7156

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3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8800e-003	0.1149	0.0176	3.5000e-004	7.8300e-003	3.4000e-004	8.1700e-003	2.1500e-003	3.2000e-004	2.4700e-003	0.0000	33.9952	33.9952	1.9300e-003	0.0000	34.0433
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	2.2200e-003	1.7500e-003	0.0175	5.0000e-005	4.9300e-003	3.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	4.2292	4.2292	1.3000e-004	0.0000	4.2324
Total	5.1000e-003	0.1167	0.0350	4.0000e-004	0.0128	3.7000e-004	0.0131	3.4600e-003	3.5000e-004	3.8100e-003	0.0000	38.2244	38.2244	2.0600e-003	0.0000	38.2757

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					0.0384	0.0000	0.0384	5.8200e-003	0.0000	5.8200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0994	0.9960	0.6526	1.1600e-003		0.0498	0.0498		0.0463	0.0463	0.0000	101.9957	101.9957	0.0288	0.0000	102.7155
Total	0.0994	0.9960	0.6526	1.1600e-003	0.0384	0.0498	0.0882	5.8200e-003	0.0463	0.0521	0.0000	101.9957	101.9957	0.0288	0.0000	102.7155

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3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8800e-003	0.1149	0.0176	3.5000e-004	7.8300e-003	3.4000e-004	8.1700e-003	2.1500e-003	3.2000e-004	2.4700e-003	0.0000	33.9952	33.9952	1.9300e-003	0.0000	34.0433
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	2.2200e-003	1.7500e-003	0.0175	5.0000e-005	4.9300e-003	3.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	4.2292	4.2292	1.3000e-004	0.0000	4.2324
Total	5.1000e-003	0.1167	0.0350	4.0000e-004	0.0128	3.7000e-004	0.0131	3.4600e-003	3.5000e-004	3.8100e-003	0.0000	38.2244	38.2244	2.0600e-003	0.0000	38.2757

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	0.0204	0.2121	0.1076	1.9000e-004	0.0983	0.0110	0.1093	0.0505	0.0101	0.0606	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

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3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	4.4000e-004	3.5000e-004	3.4900e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8458	0.8458	3.0000e-005	0.0000	0.8465
Total	4.4000e-004	3.5000e-004	3.4900e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8458	0.8458	3.0000e-005	0.0000	0.8465

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					0.0383	0.0000	0.0383	0.0197	0.0000	0.0197	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	0.0204	0.2121	0.1076	1.9000e-004	0.0383	0.0110	0.0493	0.0197	0.0101	0.0298	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

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3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	4.4000e-004	3.5000e-004	3.4900e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8458	0.8458	3.0000e-005	0.0000	0.8465
Total	4.4000e-004	3.5000e-004	3.4900e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8458	0.8458	3.0000e-005	0.0000	0.8465

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1395	0.0000	0.1395	0.0550	0.0000	0.0550	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0668	0.7530	0.4794	9.3000e-004		0.0326	0.0326		0.0300	0.0300	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872
Total	0.0668	0.7530	0.4794	9.3000e-004	0.1395	0.0326	0.1721	0.0550	0.0300	0.0850	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872

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3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.9300e-003	0.3960	0.0606	1.2200e-003	0.0270	1.1600e-003	0.0281	7.4100e-003	1.1100e-003	8.5200e-003	0.0000	117.1153	117.1153	6.6300e-003	0.0000	117.2811
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	1.1600e-003	0.0116	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.8195	2.8195	8.0000e-005	0.0000	2.8216
Total	0.0114	0.3971	0.0722	1.2500e-003	0.0303	1.1800e-003	0.0315	8.2800e-003	1.1300e-003	9.4100e-003	0.0000	119.9348	119.9348	6.7100e-003	0.0000	120.1027

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					0.0544	0.0000	0.0544	0.0215	0.0000	0.0215	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0668	0.7530	0.4794	9.3000e-004		0.0326	0.0326		0.0300	0.0300	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871
Total	0.0668	0.7530	0.4794	9.3000e-004	0.0544	0.0326	0.0870	0.0215	0.0300	0.0515	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871

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3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.9300e-003	0.3960	0.0606	1.2200e-003	0.0270	1.1600e-003	0.0281	7.4100e-003	1.1100e-003	8.5200e-003	0.0000	117.1153	117.1153	6.6300e-003	0.0000	117.2811
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	1.1600e-003	0.0116	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.8195	2.8195	8.0000e-005	0.0000	2.8216
Total	0.0114	0.3971	0.0722	1.2500e-003	0.0303	1.1800e-003	0.0315	8.2800e-003	1.1300e-003	9.4100e-003	0.0000	119.9348	119.9348	6.7100e-003	0.0000	120.1027

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0789	0.7227	0.6289	1.0100e-003		0.0418	0.0418		0.0393	0.0393	0.0000	86.8625	86.8625	0.0217	0.0000	87.4038
Total	0.0789	0.7227	0.6289	1.0100e-003		0.0418	0.0418		0.0393	0.0393	0.0000	86.8625	86.8625	0.0217	0.0000	87.4038

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3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	7.8200e-003	0.2690	0.0563	6.7000e-004	0.0159	1.2300e-003	0.0171	4.5900e-003	1.1800e-003	5.7600e-003	0.0000	64.3399	64.3399	4.4500e-003	0.0000	64.4512
Worker	0.0320	0.0251	0.2511	6.7000e-004	0.0710	4.7000e-004	0.0715	0.0189	4.4000e-004	0.0193	0.0000	60.8534	60.8534	1.8300e-003	0.0000	60.8990
Total	0.0398	0.2942	0.3074	1.3400e-003	0.0869	1.7000e-003	0.0886	0.0235	1.6200e-003	0.0251	0.0000	125.1933	125.1933	6.2800e-003	0.0000	125.3502

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	0.0789	0.7227	0.6289	1.0100e-003		0.0418	0.0418		0.0393	0.0393	0.0000	86.8624	86.8624	0.0217	0.0000	87.4037
Total	0.0789	0.7227	0.6289	1.0100e-003		0.0418	0.0418		0.0393	0.0393	0.0000	86.8624	86.8624	0.0217	0.0000	87.4037

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3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	7.8200e-003	0.2690	0.0563	6.7000e-004	0.0159	1.2300e-003	0.0171	4.5900e-003	1.1800e-003	5.7600e-003	0.0000	64.3399	64.3399	4.4500e-003	0.0000	64.4512
Worker	0.0320	0.0251	0.2511	6.7000e-004	0.0710	4.7000e-004	0.0715	0.0189	4.4000e-004	0.0193	0.0000	60.8534	60.8534	1.8300e-003	0.0000	60.8990
Total	0.0398	0.2942	0.3074	1.3400e-003	0.0869	1.7000e-003	0.0886	0.0235	1.6200e-003	0.0251	0.0000	125.1933	125.1933	6.2800e-003	0.0000	125.3502

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902
Paving	6.3000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0199	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902

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3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	7.4000e-004	5.8000e-004	5.8200e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4097	1.4097	4.0000e-005	0.0000	1.4108
Total	7.4000e-004	5.8000e-004	5.8200e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4097	1.4097	4.0000e-005	0.0000	1.4108

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	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901
Paving	6.3000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0199	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901

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3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	7.4000e-004	5.8000e-004	5.8200e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4097	1.4097	4.0000e-005	0.0000	1.4108
Total	7.4000e-004	5.8000e-004	5.8200e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4097	1.4097	4.0000e-005	0.0000	1.4108

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4215					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2300e-003	0.0225	0.0244	4.0000e-005		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	3.4043	3.4043	2.6000e-004	0.0000	3.4109
Total	0.4248	0.0225	0.0244	4.0000e-005		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	3.4043	3.4043	2.6000e-004	0.0000	3.4109

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3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8300e-003	1.4400e-003	0.0144	4.0000e-005	4.0600e-003	3.0000e-005	4.0800e-003	1.0800e-003	2.0000e-005	1.1000e-003	0.0000	3.4773	3.4773	1.0000e-004	0.0000	3.4800
Total	1.8300e-003	1.4400e-003	0.0144	4.0000e-005	4.0600e-003	3.0000e-005	4.0800e-003	1.0800e-003	2.0000e-005	1.1000e-003	0.0000	3.4773	3.4773	1.0000e-004	0.0000	3.4800

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	0.4215					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2300e-003	0.0225	0.0244	4.0000e-005		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	3.4043	3.4043	2.6000e-004	0.0000	3.4109
Total	0.4248	0.0225	0.0244	4.0000e-005		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	3.4043	3.4043	2.6000e-004	0.0000	3.4109

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3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8300e-003	1.4400e-003	0.0144	4.0000e-005	4.0600e-003	3.0000e-005	4.0800e-003	1.0800e-003	2.0000e-005	1.1000e-003	0.0000	3.4773	3.4773	1.0000e-004	0.0000	3.4800
Total	1.8300e-003	1.4400e-003	0.0144	4.0000e-005	4.0600e-003	3.0000e-005	4.0800e-003	1.0800e-003	2.0000e-005	1.1000e-003	0.0000	3.4773	3.4773	1.0000e-004	0.0000	3.4800

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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

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

4.3 Trip Type Information

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

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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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No 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

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-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					
Mitigated	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145
Unmitigated	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145

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	0.0805					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6152					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6000e-004	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145
Total	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

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	0.0805					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6152					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6000e-004	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145
Total	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145

7.0 Water Detail

7.1 Mitigation Measures Water

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

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
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No 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

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No 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
----------------	--------	----------------	-----------------	---------------	-----------

Kaiser Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

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APPENDIX 3.2:

CALEEMOD OPERATIONS (PASSENGER CAR) EMISSIONS MODEL OUTPUTS

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

Kaiser Commerce Center (Operations - Passenger Cars)
San Bernardino-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	33.07	1000sqft	0.76	33,065.00	0
Unrefrigerated Warehouse-No Rail	132.26	1000sqft	3.04	132,259.00	0
Other Asphalt Surfaces	139.85	1000sqft	3.21	139,847.00	0
Other Non-Asphalt Surfaces	66.24	1000sqft	1.52	66,235.00	0
Parking Lot	175.00	Space	1.60	70,000.00	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

Project Characteristics -

Land Use - Total Project Area is 10.13 acres.

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 Kaiser Commerce Center Warehouse Trip Generation Assessment by Urban Crossroads, Inc.

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 Business Survey Results (2014)

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

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDT1	0.04	0.04

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tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.4600e-003	0.00
tblFleetMix	LHD2	5.4600e-003	0.00
tblFleetMix	MCY	6.1170e-003	0.00
tblFleetMix	MCY	6.1170e-003	0.00
tblFleetMix	MDV	0.12	0.14
tblFleetMix	MDV	0.12	0.14
tblFleetMix	MH	1.0820e-003	0.00
tblFleetMix	MH	1.0820e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3370e-003	0.00
tblFleetMix	OBUS	1.3370e-003	0.00
tblFleetMix	SBUS	8.1700e-004	0.00
tblFleetMix	SBUS	8.1700e-004	0.00
tblFleetMix	UBUS	1.6570e-003	0.00
tblFleetMix	UBUS	1.6570e-003	0.00
tblLandUse	LotAcreage	1.57	1.60
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	OperHorsePower	97.00	200.00

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblVehicleEF	HHD	1.26	0.03
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.13	0.00
tblVehicleEF	HHD	3.65	7.49
tblVehicleEF	HHD	0.59	0.57
tblVehicleEF	HHD	2.11	2.5880e-003
tblVehicleEF	HHD	7,044.09	1,448.69
tblVehicleEF	HHD	1,507.82	1,437.97
tblVehicleEF	HHD	6.10	0.03
tblVehicleEF	HHD	29.67	7.68
tblVehicleEF	HHD	3.22	3.64
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	7.6000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8830e-003	8.9180e-003
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	7.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.0700e-004	5.0000e-006
tblVehicleEF	HHD	4.2590e-003	1.5400e-004
tblVehicleEF	HHD	0.94	0.60
tblVehicleEF	HHD	6.5000e-005	3.0000e-006

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

tblVehicleEF	HHD	0.09	0.10
tblVehicleEF	HHD	2.9100e-004	7.7100e-004
tblVehicleEF	HHD	0.07	1.0000e-006
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tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	9.6000e-005	0.00
tblVehicleEF	HHD	1.0700e-004	5.0000e-006
tblVehicleEF	HHD	4.2590e-003	1.5400e-004
tblVehicleEF	HHD	1.08	0.69
tblVehicleEF	HHD	6.5000e-005	3.0000e-006
tblVehicleEF	HHD	0.14	0.18
tblVehicleEF	HHD	2.9100e-004	7.7100e-004
tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	1.19	0.03
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.12	0.00
tblVehicleEF	HHD	2.66	7.32
tblVehicleEF	HHD	0.59	0.57
tblVehicleEF	HHD	1.99	2.4340e-003
tblVehicleEF	HHD	7,457.73	1,444.52
tblVehicleEF	HHD	1,507.82	1,437.97
tblVehicleEF	HHD	6.10	0.03
tblVehicleEF	HHD	30.61	7.46
tblVehicleEF	HHD	3.03	3.42
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04

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tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	7.6000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8830e-003	8.9180e-003
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	7.0000e-005	1.0000e-006
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tblVehicleEF	HHD	4.8950e-003	1.8100e-004
tblVehicleEF	HHD	0.89	0.63
tblVehicleEF	HHD	1.5100e-004	7.0000e-006
tblVehicleEF	HHD	0.09	0.10
tblVehicleEF	HHD	2.9900e-004	7.9700e-004
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	2.1400e-004	1.0000e-005
tblVehicleEF	HHD	4.8950e-003	1.8100e-004
tblVehicleEF	HHD	1.02	0.72
tblVehicleEF	HHD	1.5100e-004	7.0000e-006
tblVehicleEF	HHD	0.14	0.18
tblVehicleEF	HHD	2.9900e-004	7.9700e-004
tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	1.36	0.03
tblVehicleEF	HHD	0.04	4.6710e-003
tblVehicleEF	HHD	0.13	0.00

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

tblVehicleEF	HHD	5.01	7.66
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tblVehicleEF	HHD	2.07	2.5600e-003
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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	7.6000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8830e-003	8.8180e-003
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	7.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.1000e-004	5.0000e-006
tblVehicleEF	HHD	4.8700e-003	1.8200e-004
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tblVehicleEF	HHD	6.4000e-005	3.0000e-006
tblVehicleEF	HHD	0.09	0.10
tblVehicleEF	HHD	3.1000e-004	8.0600e-004
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01

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tblVehicleEF	HHD	9.6000e-005	0.00
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tblVehicleEF	HHD	0.14	0.11
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tblVehicleEF	LDA	5.1540e-003	3.2100e-003
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tblVehicleEF	LDA	2.3270e-003	2.0370e-003
tblVehicleEF	LDA	1.6000e-003	1.4630e-003
tblVehicleEF	LDA	2.1400e-003	1.8730e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.10	0.28
tblVehicleEF	LDA	2.7220e-003	2.7370e-003
tblVehicleEF	LDA	6.3900e-004	5.6500e-004

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tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.11	0.30
tblVehicleEF	LDA	5.8790e-003	3.6760e-003
tblVehicleEF	LDA	6.2340e-003	0.05
tblVehicleEF	LDA	0.81	0.94
tblVehicleEF	LDA	1.22	1.90
tblVehicleEF	LDA	297.40	302.23
tblVehicleEF	LDA	61.36	56.31
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	1.7360e-003	1.5890e-003
tblVehicleEF	LDA	2.3270e-003	2.0370e-003
tblVehicleEF	LDA	1.6000e-003	1.4630e-003
tblVehicleEF	LDA	2.1400e-003	1.8730e-003
tblVehicleEF	LDA	0.11	0.15
tblVehicleEF	LDA	0.14	0.14
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.9810e-003	2.9900e-003
tblVehicleEF	LDA	6.3500e-004	5.5700e-004
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tblVehicleEF	LDA	0.14	0.14

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tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.09	0.25
tblVehicleEF	LDA	5.0060e-003	3.1310e-003
tblVehicleEF	LDA	7.4230e-003	0.06
tblVehicleEF	LDA	0.62	0.73
tblVehicleEF	LDA	1.46	2.25
tblVehicleEF	LDA	265.71	270.69
tblVehicleEF	LDA	61.36	57.01
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	1.7360e-003	1.5890e-003
tblVehicleEF	LDA	2.3270e-003	2.0370e-003
tblVehicleEF	LDA	1.6000e-003	1.4630e-003
tblVehicleEF	LDA	2.1400e-003	1.8730e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.26
tblVehicleEF	LDA	0.10	0.27
tblVehicleEF	LDA	2.6610e-003	2.6780e-003
tblVehicleEF	LDA	6.3900e-004	5.6400e-004
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02

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tblVehicleEF	LDA	0.04	0.26
tblVehicleEF	LDA	0.11	0.30
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tblVehicleEF	LDT1	0.02	0.10
tblVehicleEF	LDT1	1.88	1.84
tblVehicleEF	LDT1	4.45	2.64
tblVehicleEF	LDT1	332.44	327.73
tblVehicleEF	LDT1	74.44	69.37
tblVehicleEF	LDT1	0.20	0.17
tblVehicleEF	LDT1	3.0160e-003	2.6170e-003
tblVehicleEF	LDT1	4.1090e-003	3.3430e-003
tblVehicleEF	LDT1	2.7780e-003	2.4090e-003
tblVehicleEF	LDT1	3.7800e-003	3.0740e-003
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	0.38	0.31
tblVehicleEF	LDT1	0.14	0.16
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.23	1.04
tblVehicleEF	LDT1	0.32	0.54
tblVehicleEF	LDT1	3.3490e-003	3.2430e-003
tblVehicleEF	LDT1	8.2300e-004	6.8700e-004
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	0.38	0.31
tblVehicleEF	LDT1	0.14	0.16
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.23	1.04
tblVehicleEF	LDT1	0.35	0.59

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tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	2.25	2.22
tblVehicleEF	LDT1	3.66	2.18
tblVehicleEF	LDT1	362.07	354.55
tblVehicleEF	LDT1	74.44	68.34
tblVehicleEF	LDT1	0.18	0.16
tblVehicleEF	LDT1	3.0160e-003	2.6170e-003
tblVehicleEF	LDT1	4.1090e-003	3.3430e-003
tblVehicleEF	LDT1	2.7780e-003	2.4090e-003
tblVehicleEF	LDT1	3.7800e-003	3.0740e-003
tblVehicleEF	LDT1	0.42	0.48
tblVehicleEF	LDT1	0.47	0.39
tblVehicleEF	LDT1	0.30	0.34
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.23	1.04
tblVehicleEF	LDT1	0.27	0.45
tblVehicleEF	LDT1	3.6510e-003	3.5080e-003
tblVehicleEF	LDT1	8.0900e-004	6.7600e-004
tblVehicleEF	LDT1	0.42	0.48
tblVehicleEF	LDT1	0.47	0.39
tblVehicleEF	LDT1	0.30	0.34
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.23	1.04
tblVehicleEF	LDT1	0.29	0.49
tblVehicleEF	LDT1	0.02	9.2010e-003
tblVehicleEF	LDT1	0.02	0.10

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tblVehicleEF	LDT1	1.79	1.75
tblVehicleEF	LDT1	4.37	2.60
tblVehicleEF	LDT1	325.45	321.36
tblVehicleEF	LDT1	74.44	69.28
tblVehicleEF	LDT1	0.19	0.16
tblVehicleEF	LDT1	3.0160e-003	2.6170e-003
tblVehicleEF	LDT1	4.1090e-003	3.3430e-003
tblVehicleEF	LDT1	2.7780e-003	2.4090e-003
tblVehicleEF	LDT1	3.7800e-003	3.0740e-003
tblVehicleEF	LDT1	0.22	0.24
tblVehicleEF	LDT1	0.44	0.36
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.26	1.22
tblVehicleEF	LDT1	0.32	0.54
tblVehicleEF	LDT1	3.2780e-003	3.1800e-003
tblVehicleEF	LDT1	8.2200e-004	6.8600e-004
tblVehicleEF	LDT1	0.22	0.24
tblVehicleEF	LDT1	0.44	0.36
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.26	1.22
tblVehicleEF	LDT1	0.35	0.59
tblVehicleEF	LDT2	7.5900e-003	5.4250e-003
tblVehicleEF	LDT2	0.01	0.09
tblVehicleEF	LDT2	0.92	1.17
tblVehicleEF	LDT2	2.08	3.01

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tblVehicleEF	LDT2	375.03	356.41
tblVehicleEF	LDT2	84.46	75.61
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	1.7360e-003	1.6670e-003
tblVehicleEF	LDT2	2.4270e-003	2.1440e-003
tblVehicleEF	LDT2	1.5970e-003	1.5340e-003
tblVehicleEF	LDT2	2.2320e-003	1.9720e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.53
tblVehicleEF	LDT2	0.14	0.42
tblVehicleEF	LDT2	3.7580e-003	3.5260e-003
tblVehicleEF	LDT2	8.8000e-004	7.4800e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.08	0.53
tblVehicleEF	LDT2	0.16	0.46
tblVehicleEF	LDT2	8.6210e-003	6.1900e-003
tblVehicleEF	LDT2	8.8260e-003	0.07
tblVehicleEF	LDT2	1.12	1.42
tblVehicleEF	LDT2	1.72	2.48
tblVehicleEF	LDT2	409.49	383.08
tblVehicleEF	LDT2	84.46	74.56

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tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	1.7360e-003	1.6670e-003
tblVehicleEF	LDT2	2.4270e-003	2.1440e-003
tblVehicleEF	LDT2	1.5970e-003	1.5340e-003
tblVehicleEF	LDT2	2.2320e-003	1.9720e-003
tblVehicleEF	LDT2	0.15	0.23
tblVehicleEF	LDT2	0.17	0.20
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.52
tblVehicleEF	LDT2	0.12	0.35
tblVehicleEF	LDT2	4.1060e-003	3.7900e-003
tblVehicleEF	LDT2	8.7400e-004	7.3800e-004
tblVehicleEF	LDT2	0.15	0.23
tblVehicleEF	LDT2	0.17	0.20
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.07	0.52
tblVehicleEF	LDT2	0.13	0.38
tblVehicleEF	LDT2	7.3800e-003	5.2940e-003
tblVehicleEF	LDT2	0.01	0.09
tblVehicleEF	LDT2	0.87	1.11
tblVehicleEF	LDT2	2.04	2.96
tblVehicleEF	LDT2	366.89	350.08
tblVehicleEF	LDT2	84.46	75.53
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	1.7360e-003	1.6670e-003

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tblVehicleEF	LDT2	2.4270e-003	2.1440e-003
tblVehicleEF	LDT2	1.5970e-003	1.5340e-003
tblVehicleEF	LDT2	2.2320e-003	1.9720e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.16	0.19
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.09	0.61
tblVehicleEF	LDT2	0.14	0.41
tblVehicleEF	LDT2	3.6760e-003	3.4640e-003
tblVehicleEF	LDT2	8.8000e-004	7.4700e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.16	0.19
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.09	0.61
tblVehicleEF	LDT2	0.16	0.45
tblVehicleEF	LHD1	5.6900e-003	5.0880e-003
tblVehicleEF	LHD1	0.01	7.7680e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.18
tblVehicleEF	LHD1	1.27	1.08
tblVehicleEF	LHD1	2.93	1.12
tblVehicleEF	LHD1	9.23	9.45
tblVehicleEF	LHD1	620.09	663.36
tblVehicleEF	LHD1	31.53	11.23
tblVehicleEF	LHD1	0.09	0.08

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tblVehicleEF	LHD1	2.40	1.84
tblVehicleEF	LHD1	9.6100e-004	9.3100e-004
tblVehicleEF	LHD1	0.01	9.9320e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0840e-003	2.9900e-004
tblVehicleEF	LHD1	9.1900e-004	8.9100e-004
tblVehicleEF	LHD1	2.5180e-003	2.4830e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.9800e-004	2.7500e-004
tblVehicleEF	LHD1	3.8770e-003	3.4930e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8640e-003	1.6570e-003
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.35	0.65
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	6.0910e-003	6.4590e-003
tblVehicleEF	LHD1	3.7100e-004	1.1100e-004
tblVehicleEF	LHD1	3.8770e-003	3.4930e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8640e-003	1.6570e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.35	0.65
tblVehicleEF	LHD1	0.33	0.10
tblVehicleEF	LHD1	5.6900e-003	5.1040e-003

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tblVehicleEF	LHD1	0.02	7.9500e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.18
tblVehicleEF	LHD1	1.29	1.10
tblVehicleEF	LHD1	2.74	1.04
tblVehicleEF	LHD1	9.23	9.45
tblVehicleEF	LHD1	620.09	663.40
tblVehicleEF	LHD1	31.53	11.10
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.25	1.73
tblVehicleEF	LHD1	9.6100e-004	9.3100e-004
tblVehicleEF	LHD1	0.01	9.9320e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0840e-003	2.9900e-004
tblVehicleEF	LHD1	9.1900e-004	8.9100e-004
tblVehicleEF	LHD1	2.5180e-003	2.4830e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.9800e-004	2.7500e-004
tblVehicleEF	LHD1	7.6890e-003	6.9750e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.2920e-003	3.8740e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.66
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	6.0910e-003	6.4590e-003

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tblVehicleEF	LHD1	3.6700e-004	1.1000e-004
tblVehicleEF	LHD1	7.6890e-003	6.9750e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.2920e-003	3.8740e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.35	0.66
tblVehicleEF	LHD1	0.32	0.10
tblVehicleEF	LHD1	5.6900e-003	5.0910e-003
tblVehicleEF	LHD1	0.01	7.7840e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.18
tblVehicleEF	LHD1	1.27	1.08
tblVehicleEF	LHD1	2.88	1.10
tblVehicleEF	LHD1	9.23	9.45
tblVehicleEF	LHD1	620.09	663.36
tblVehicleEF	LHD1	31.53	11.20
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.36	1.81
tblVehicleEF	LHD1	9.6100e-004	9.3100e-004
tblVehicleEF	LHD1	0.01	9.9320e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0840e-003	2.9900e-004
tblVehicleEF	LHD1	9.1900e-004	8.9100e-004
tblVehicleEF	LHD1	2.5180e-003	2.4830e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.9800e-004	2.7500e-004

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tblVehicleEF	LHD1	4.3010e-003	3.9210e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8380e-003	1.6360e-003
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.38	0.70
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	6.0910e-003	6.4590e-003
tblVehicleEF	LHD1	3.7000e-004	1.1100e-004
tblVehicleEF	LHD1	4.3010e-003	3.9210e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8380e-003	1.6360e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.38	0.70
tblVehicleEF	LHD1	0.33	0.10
tblVehicleEF	LHD2	4.0010e-003	3.4940e-003
tblVehicleEF	LHD2	5.9170e-003	4.8970e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.14
tblVehicleEF	LHD2	0.63	0.67
tblVehicleEF	LHD2	1.40	0.67
tblVehicleEF	LHD2	14.35	14.68
tblVehicleEF	LHD2	619.96	664.05
tblVehicleEF	LHD2	25.37	8.14
tblVehicleEF	LHD2	0.12	0.12

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tblVehicleEF	LHD2	1.91	1.99
tblVehicleEF	LHD2	1.3140e-003	1.3790e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.6400e-004	1.4200e-004
tblVehicleEF	LHD2	1.2570e-003	1.3190e-003
tblVehicleEF	LHD2	2.6760e-003	2.6850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.2700e-004	1.3000e-004
tblVehicleEF	LHD2	1.5090e-003	1.7180e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7800e-004	8.5100e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.11	0.33
tblVehicleEF	LHD2	0.14	0.05
tblVehicleEF	LHD2	6.0350e-003	6.4090e-003
tblVehicleEF	LHD2	2.8000e-004	8.1000e-005
tblVehicleEF	LHD2	1.5090e-003	1.7180e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7800e-004	8.5100e-004
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.11	0.33
tblVehicleEF	LHD2	0.15	0.06
tblVehicleEF	LHD2	4.0010e-003	3.5050e-003
tblVehicleEF	LHD2	6.0090e-003	4.9550e-003

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tblVehicleEF	LHD2	9.7620e-003	0.01
tblVehicleEF	LHD2	0.13	0.14
tblVehicleEF	LHD2	0.63	0.68
tblVehicleEF	LHD2	1.32	0.63
tblVehicleEF	LHD2	14.35	14.68
tblVehicleEF	LHD2	619.96	664.06
tblVehicleEF	LHD2	25.37	8.07
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.80	1.87
tblVehicleEF	LHD2	1.3140e-003	1.3790e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.6400e-004	1.4200e-004
tblVehicleEF	LHD2	1.2570e-003	1.3190e-003
tblVehicleEF	LHD2	2.6760e-003	2.6850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.2700e-004	1.3000e-004
tblVehicleEF	LHD2	2.9270e-003	3.3570e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.7180e-003	1.9120e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.11	0.33
tblVehicleEF	LHD2	0.13	0.05
tblVehicleEF	LHD2	6.0350e-003	6.4090e-003
tblVehicleEF	LHD2	2.7800e-004	8.0000e-005
tblVehicleEF	LHD2	2.9270e-003	3.3570e-003

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tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.7180e-003	1.9120e-003
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.11	0.33
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.0010e-003	3.4970e-003
tblVehicleEF	LHD2	5.9270e-003	4.9040e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.14
tblVehicleEF	LHD2	0.63	0.67
tblVehicleEF	LHD2	1.38	0.66
tblVehicleEF	LHD2	14.35	14.68
tblVehicleEF	LHD2	619.96	664.05
tblVehicleEF	LHD2	25.37	8.12
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.88	1.96
tblVehicleEF	LHD2	1.3140e-003	1.3790e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.6400e-004	1.4200e-004
tblVehicleEF	LHD2	1.2570e-003	1.3190e-003
tblVehicleEF	LHD2	2.6760e-003	2.6850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.2700e-004	1.3000e-004
tblVehicleEF	LHD2	1.5970e-003	1.8540e-003
tblVehicleEF	LHD2	0.05	0.06

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tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.6400e-004	8.3300e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.11	0.35
tblVehicleEF	LHD2	0.14	0.05
tblVehicleEF	LHD2	6.0350e-003	6.4090e-003
tblVehicleEF	LHD2	2.7900e-004	8.0000e-005
tblVehicleEF	LHD2	1.5970e-003	1.8540e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.6400e-004	8.3300e-004
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.11	0.35
tblVehicleEF	LHD2	0.15	0.06
tblVehicleEF	MCY	0.41	0.33
tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	21.63	21.70
tblVehicleEF	MCY	9.90	8.75
tblVehicleEF	MCY	166.31	211.44
tblVehicleEF	MCY	47.31	62.20
tblVehicleEF	MCY	1.17	1.18
tblVehicleEF	MCY	1.7690e-003	1.7420e-003
tblVehicleEF	MCY	3.8320e-003	3.1620e-003
tblVehicleEF	MCY	1.6590e-003	1.6340e-003
tblVehicleEF	MCY	3.6220e-003	2.9860e-003
tblVehicleEF	MCY	1.45	1.43
tblVehicleEF	MCY	0.86	0.84

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tblVehicleEF	MCY	0.81	0.80
tblVehicleEF	MCY	2.28	2.28
tblVehicleEF	MCY	0.51	2.16
tblVehicleEF	MCY	2.19	1.93
tblVehicleEF	MCY	2.0810e-003	2.0920e-003
tblVehicleEF	MCY	7.0000e-004	6.1600e-004
tblVehicleEF	MCY	1.45	1.43
tblVehicleEF	MCY	0.86	0.84
tblVehicleEF	MCY	0.81	0.80
tblVehicleEF	MCY	2.77	2.77
tblVehicleEF	MCY	0.51	2.16
tblVehicleEF	MCY	2.38	2.10
tblVehicleEF	MCY	0.41	0.33
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	21.75	21.83
tblVehicleEF	MCY	9.07	7.97
tblVehicleEF	MCY	166.31	211.41
tblVehicleEF	MCY	47.31	60.03
tblVehicleEF	MCY	1.00	1.00
tblVehicleEF	MCY	1.7690e-003	1.7420e-003
tblVehicleEF	MCY	3.8320e-003	3.1620e-003
tblVehicleEF	MCY	1.6590e-003	1.6340e-003
tblVehicleEF	MCY	3.6220e-003	2.9860e-003
tblVehicleEF	MCY	3.14	3.12
tblVehicleEF	MCY	1.28	1.27
tblVehicleEF	MCY	2.15	2.12
tblVehicleEF	MCY	2.21	2.21

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tblVehicleEF	MCY	0.50	2.15
tblVehicleEF	MCY	1.88	1.65
tblVehicleEF	MCY	2.0810e-003	2.0920e-003
tblVehicleEF	MCY	6.7600e-004	5.9400e-004
tblVehicleEF	MCY	3.14	3.12
tblVehicleEF	MCY	1.28	1.27
tblVehicleEF	MCY	2.15	2.12
tblVehicleEF	MCY	2.70	2.69
tblVehicleEF	MCY	0.50	2.15
tblVehicleEF	MCY	2.05	1.79
tblVehicleEF	MCY	0.41	0.33
tblVehicleEF	MCY	0.15	0.25
tblVehicleEF	MCY	20.62	20.68
tblVehicleEF	MCY	9.51	8.39
tblVehicleEF	MCY	166.31	209.68
tblVehicleEF	MCY	47.31	61.38
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	1.7690e-003	1.7420e-003
tblVehicleEF	MCY	3.8320e-003	3.1620e-003
tblVehicleEF	MCY	1.6590e-003	1.6340e-003
tblVehicleEF	MCY	3.6220e-003	2.9860e-003
tblVehicleEF	MCY	1.71	1.69
tblVehicleEF	MCY	1.15	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.24	2.23
tblVehicleEF	MCY	0.57	2.45
tblVehicleEF	MCY	2.11	1.85

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tblVehicleEF	MCY	2.0640e-003	2.0750e-003
tblVehicleEF	MCY	6.9100e-004	6.0700e-004
tblVehicleEF	MCY	1.71	1.69
tblVehicleEF	MCY	1.15	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.73	2.72
tblVehicleEF	MCY	0.57	2.45
tblVehicleEF	MCY	2.30	2.01
tblVehicleEF	MDV	0.02	7.4600e-003
tblVehicleEF	MDV	0.02	0.11
tblVehicleEF	MDV	1.73	1.47
tblVehicleEF	MDV	3.93	3.71
tblVehicleEF	MDV	510.99	438.31
tblVehicleEF	MDV	113.32	92.88
tblVehicleEF	MDV	0.22	0.16
tblVehicleEF	MDV	1.8900e-003	1.7940e-003
tblVehicleEF	MDV	2.6570e-003	2.2880e-003
tblVehicleEF	MDV	1.7440e-003	1.6560e-003
tblVehicleEF	MDV	2.4460e-003	2.1070e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.11	0.55
tblVehicleEF	MDV	0.31	0.54
tblVehicleEF	MDV	5.1260e-003	4.3340e-003
tblVehicleEF	MDV	1.2030e-003	9.1900e-004

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tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.11	0.55
tblVehicleEF	MDV	0.34	0.59
tblVehicleEF	MDV	0.02	8.4130e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	2.07	1.77
tblVehicleEF	MDV	3.28	3.07
tblVehicleEF	MDV	556.34	466.62
tblVehicleEF	MDV	113.32	91.58
tblVehicleEF	MDV	0.20	0.14
tblVehicleEF	MDV	1.8900e-003	1.7940e-003
tblVehicleEF	MDV	2.6570e-003	2.2880e-003
tblVehicleEF	MDV	1.7440e-003	1.6560e-003
tblVehicleEF	MDV	2.4460e-003	2.1070e-003
tblVehicleEF	MDV	0.21	0.26
tblVehicleEF	MDV	0.25	0.22
tblVehicleEF	MDV	0.18	0.22
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.55
tblVehicleEF	MDV	0.26	0.45
tblVehicleEF	MDV	5.5850e-003	4.6140e-003
tblVehicleEF	MDV	1.1910e-003	9.0600e-004
tblVehicleEF	MDV	0.21	0.26
tblVehicleEF	MDV	0.25	0.22

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tblVehicleEF	MDV	0.18	0.22
tblVehicleEF	MDV	0.07	0.05
tblVehicleEF	MDV	0.11	0.55
tblVehicleEF	MDV	0.29	0.50
tblVehicleEF	MDV	0.01	7.2640e-003
tblVehicleEF	MDV	0.02	0.11
tblVehicleEF	MDV	1.63	1.39
tblVehicleEF	MDV	3.86	3.65
tblVehicleEF	MDV	500.39	431.57
tblVehicleEF	MDV	113.32	92.77
tblVehicleEF	MDV	0.21	0.15
tblVehicleEF	MDV	1.8900e-003	1.7940e-003
tblVehicleEF	MDV	2.6570e-003	2.2880e-003
tblVehicleEF	MDV	1.7440e-003	1.6560e-003
tblVehicleEF	MDV	2.4460e-003	2.1070e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.63
tblVehicleEF	MDV	0.31	0.54
tblVehicleEF	MDV	5.0190e-003	4.2670e-003
tblVehicleEF	MDV	1.2020e-003	9.1800e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.06	0.05

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tblVehicleEF	MDV	0.13	0.63
tblVehicleEF	MDV	0.34	0.59
tblVehicleEF	MH	0.04	3.9290e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	4.29	0.37
tblVehicleEF	MH	7.50	0.00
tblVehicleEF	MH	1,044.38	962.75
tblVehicleEF	MH	61.75	0.00
tblVehicleEF	MH	1.73	4.84
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.16
tblVehicleEF	MH	1.5070e-003	0.00
tblVehicleEF	MH	3.2190e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.15
tblVehicleEF	MH	1.3940e-003	0.00
tblVehicleEF	MH	1.65	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.01	9.1010e-003
tblVehicleEF	MH	7.4900e-004	0.00
tblVehicleEF	MH	1.65	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.19	0.10

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tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MH	0.05	3.9290e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	4.46	0.37
tblVehicleEF	MH	6.85	0.00
tblVehicleEF	MH	1,044.38	962.75
tblVehicleEF	MH	61.75	0.00
tblVehicleEF	MH	1.58	4.55
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.16
tblVehicleEF	MH	1.5070e-003	0.00
tblVehicleEF	MH	3.2190e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.15
tblVehicleEF	MH	1.3940e-003	0.00
tblVehicleEF	MH	3.30	0.00
tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	1.37	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.01	9.1010e-003
tblVehicleEF	MH	7.3800e-004	0.00
tblVehicleEF	MH	3.30	0.00
tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	1.37	0.00
tblVehicleEF	MH	0.20	0.10

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tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.04	3.9290e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	4.28	0.37
tblVehicleEF	MH	7.39	0.00
tblVehicleEF	MH	1,044.38	962.75
tblVehicleEF	MH	61.75	0.00
tblVehicleEF	MH	1.69	4.76
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.16
tblVehicleEF	MH	1.5070e-003	0.00
tblVehicleEF	MH	3.2190e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.15
tblVehicleEF	MH	1.3940e-003	0.00
tblVehicleEF	MH	2.00	0.00
tblVehicleEF	MH	0.13	0.00
tblVehicleEF	MH	0.59	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.44	0.00
tblVehicleEF	MH	0.01	9.1010e-003
tblVehicleEF	MH	7.4700e-004	0.00
tblVehicleEF	MH	2.00	0.00
tblVehicleEF	MH	0.13	0.00
tblVehicleEF	MH	0.59	0.00
tblVehicleEF	MH	0.19	0.10

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tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MHD	0.02	3.2690e-003
tblVehicleEF	MHD	6.5200e-003	7.4410e-003
tblVehicleEF	MHD	0.06	9.2700e-003
tblVehicleEF	MHD	0.41	0.34
tblVehicleEF	MHD	0.48	0.67
tblVehicleEF	MHD	6.64	1.11
tblVehicleEF	MHD	157.61	72.65
tblVehicleEF	MHD	1,102.10	1,047.06
tblVehicleEF	MHD	54.49	8.73
tblVehicleEF	MHD	0.99	0.68
tblVehicleEF	MHD	1.67	2.66
tblVehicleEF	MHD	2.8010e-003	2.4760e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.7800e-004	1.1500e-004
tblVehicleEF	MHD	2.6800e-003	2.3690e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.0700e-004	1.0600e-004
tblVehicleEF	MHD	1.5850e-003	7.5000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.7500e-004	3.6500e-004
tblVehicleEF	MHD	0.08	0.13
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.40	0.05
tblVehicleEF	MHD	1.5150e-003	6.8900e-004

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tblVehicleEF	MHD	0.01	9.9770e-003
tblVehicleEF	MHD	6.6100e-004	8.6000e-005
tblVehicleEF	MHD	1.5850e-003	7.5000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.7500e-004	3.6500e-004
tblVehicleEF	MHD	0.09	0.15
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.44	0.05
tblVehicleEF	MHD	0.02	3.0990e-003
tblVehicleEF	MHD	6.6290e-003	7.5050e-003
tblVehicleEF	MHD	0.06	8.8360e-003
tblVehicleEF	MHD	0.29	0.28
tblVehicleEF	MHD	0.49	0.68
tblVehicleEF	MHD	6.20	1.04
tblVehicleEF	MHD	166.94	74.24
tblVehicleEF	MHD	1,102.10	1,047.07
tblVehicleEF	MHD	54.49	8.61
tblVehicleEF	MHD	1.02	0.69
tblVehicleEF	MHD	1.57	2.50
tblVehicleEF	MHD	2.3620e-003	2.0900e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.7800e-004	1.1500e-004
tblVehicleEF	MHD	2.2590e-003	1.9990e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.0700e-004	1.0600e-004
tblVehicleEF	MHD	3.1650e-003	1.5010e-003

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tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.8350e-003	8.6900e-004
tblVehicleEF	MHD	0.08	0.13
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.38	0.05
tblVehicleEF	MHD	1.6030e-003	7.0400e-004
tblVehicleEF	MHD	0.01	9.9770e-003
tblVehicleEF	MHD	6.5400e-004	8.5000e-005
tblVehicleEF	MHD	3.1650e-003	1.5010e-003
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.8350e-003	8.6900e-004
tblVehicleEF	MHD	0.09	0.15
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.42	0.05
tblVehicleEF	MHD	0.02	3.5160e-003
tblVehicleEF	MHD	6.5300e-003	7.4460e-003
tblVehicleEF	MHD	0.06	9.1670e-003
tblVehicleEF	MHD	0.56	0.43
tblVehicleEF	MHD	0.48	0.68
tblVehicleEF	MHD	6.52	1.09
tblVehicleEF	MHD	144.70	70.46
tblVehicleEF	MHD	1,102.10	1,047.06
tblVehicleEF	MHD	54.49	8.70
tblVehicleEF	MHD	0.94	0.66
tblVehicleEF	MHD	1.64	2.61

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tblVehicleEF	MHD	3.4090e-003	3.0090e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.7800e-004	1.1500e-004
tblVehicleEF	MHD	3.2610e-003	2.8790e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.0700e-004	1.0600e-004
tblVehicleEF	MHD	1.7730e-003	8.4100e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.6800e-004	3.6200e-004
tblVehicleEF	MHD	0.08	0.13
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.40	0.05
tblVehicleEF	MHD	1.3930e-003	6.6800e-004
tblVehicleEF	MHD	0.01	9.9770e-003
tblVehicleEF	MHD	6.5900e-004	8.6000e-005
tblVehicleEF	MHD	1.7730e-003	8.4100e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.6800e-004	3.6200e-004
tblVehicleEF	MHD	0.09	0.15
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.43	0.05
tblVehicleEF	OBUS	0.01	9.4880e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.27	0.49

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tblVehicleEF	OBUS	0.84	1.38
tblVehicleEF	OBUS	7.08	2.89
tblVehicleEF	OBUS	69.66	68.94
tblVehicleEF	OBUS	1,125.58	1,531.86
tblVehicleEF	OBUS	71.49	22.61
tblVehicleEF	OBUS	0.36	0.44
tblVehicleEF	OBUS	1.31	1.73
tblVehicleEF	OBUS	1.6600e-004	2.0970e-003
tblVehicleEF	OBUS	6.3680e-003	0.03
tblVehicleEF	OBUS	9.0100e-004	2.3900e-004
tblVehicleEF	OBUS	1.5900e-004	2.0060e-003
tblVehicleEF	OBUS	6.0730e-003	0.03
tblVehicleEF	OBUS	8.2900e-004	2.2000e-004
tblVehicleEF	OBUS	2.2890e-003	2.8330e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.6000e-004	1.1430e-003
tblVehicleEF	OBUS	0.05	0.10
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.44	0.14
tblVehicleEF	OBUS	6.7700e-004	6.5900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.3900e-004	2.2400e-004
tblVehicleEF	OBUS	2.2890e-003	2.8330e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.6000e-004	1.1430e-003

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tblVehicleEF	OBUS	0.07	0.13
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.48	0.15
tblVehicleEF	OBUS	0.01	9.5010e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.26	0.46
tblVehicleEF	OBUS	0.86	1.41
tblVehicleEF	OBUS	6.48	2.65
tblVehicleEF	OBUS	72.76	69.63
tblVehicleEF	OBUS	1,125.58	1,531.92
tblVehicleEF	OBUS	71.49	22.21
tblVehicleEF	OBUS	0.37	0.44
tblVehicleEF	OBUS	1.21	1.60
tblVehicleEF	OBUS	1.4000e-004	1.7700e-003
tblVehicleEF	OBUS	6.3680e-003	0.03
tblVehicleEF	OBUS	9.0100e-004	2.3900e-004
tblVehicleEF	OBUS	1.3400e-004	1.6940e-003
tblVehicleEF	OBUS	6.0730e-003	0.03
tblVehicleEF	OBUS	8.2900e-004	2.2000e-004
tblVehicleEF	OBUS	4.4650e-003	5.5400e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	2.2300e-003	2.6720e-003
tblVehicleEF	OBUS	0.06	0.10
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.41	0.13

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tblVehicleEF	OBUS	7.0700e-004	6.6500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2900e-004	2.2000e-004
tblVehicleEF	OBUS	4.4650e-003	5.5400e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.2300e-003	2.6720e-003
tblVehicleEF	OBUS	0.07	0.13
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.45	0.15
tblVehicleEF	OBUS	0.01	9.5070e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.29	0.52
tblVehicleEF	OBUS	0.84	1.38
tblVehicleEF	OBUS	7.02	2.87
tblVehicleEF	OBUS	65.38	68.00
tblVehicleEF	OBUS	1,125.58	1,531.87
tblVehicleEF	OBUS	71.49	22.58
tblVehicleEF	OBUS	0.35	0.44
tblVehicleEF	OBUS	1.28	1.70
tblVehicleEF	OBUS	2.0300e-004	2.5470e-003
tblVehicleEF	OBUS	6.3680e-003	0.03
tblVehicleEF	OBUS	9.0100e-004	2.3900e-004
tblVehicleEF	OBUS	1.9400e-004	2.4370e-003
tblVehicleEF	OBUS	6.0730e-003	0.03
tblVehicleEF	OBUS	8.2900e-004	2.2000e-004

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tblVehicleEF	OBUS	2.4760e-003	3.1080e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.7500e-004	1.1620e-003
tblVehicleEF	OBUS	0.05	0.10
tblVehicleEF	OBUS	0.06	0.33
tblVehicleEF	OBUS	0.44	0.14
tblVehicleEF	OBUS	6.3600e-004	6.5000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.3800e-004	2.2300e-004
tblVehicleEF	OBUS	2.4760e-003	3.1080e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.7500e-004	1.1620e-003
tblVehicleEF	OBUS	0.07	0.13
tblVehicleEF	OBUS	0.06	0.33
tblVehicleEF	OBUS	0.48	0.15
tblVehicleEF	SBUS	0.87	0.04
tblVehicleEF	SBUS	0.01	7.8850e-003
tblVehicleEF	SBUS	0.08	3.7580e-003
tblVehicleEF	SBUS	5.54	1.74
tblVehicleEF	SBUS	0.77	0.66
tblVehicleEF	SBUS	5.64	0.52
tblVehicleEF	SBUS	1,282.62	337.41
tblVehicleEF	SBUS	1,152.18	1,158.46
tblVehicleEF	SBUS	35.03	3.01
tblVehicleEF	SBUS	13.20	3.54

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tblVehicleEF	SBUS	5.57	5.66
tblVehicleEF	SBUS	0.02	4.9280e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.0700e-004	2.8000e-005
tblVehicleEF	SBUS	0.01	4.7150e-003
tblVehicleEF	SBUS	2.7710e-003	2.7830e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.6600e-004	2.6000e-005
tblVehicleEF	SBUS	3.3280e-003	7.8600e-004
tblVehicleEF	SBUS	0.02	5.8070e-003
tblVehicleEF	SBUS	0.67	0.18
tblVehicleEF	SBUS	1.3510e-003	3.4400e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.29	0.02
tblVehicleEF	SBUS	0.01	3.2060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4800e-004	3.0000e-005
tblVehicleEF	SBUS	3.3280e-003	7.8600e-004
tblVehicleEF	SBUS	0.02	5.8070e-003
tblVehicleEF	SBUS	0.95	0.26
tblVehicleEF	SBUS	1.3510e-003	3.4400e-004
tblVehicleEF	SBUS	0.15	0.13
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	0.87	0.04

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tblVehicleEF	SBUS	0.01	7.9830e-003
tblVehicleEF	SBUS	0.06	3.1210e-003
tblVehicleEF	SBUS	5.38	1.70
tblVehicleEF	SBUS	0.78	0.67
tblVehicleEF	SBUS	3.86	0.37
tblVehicleEF	SBUS	1,348.56	346.48
tblVehicleEF	SBUS	1,152.18	1,158.48
tblVehicleEF	SBUS	35.03	2.75
tblVehicleEF	SBUS	13.63	3.62
tblVehicleEF	SBUS	5.22	5.31
tblVehicleEF	SBUS	0.01	4.1620e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.0700e-004	2.8000e-005
tblVehicleEF	SBUS	0.01	3.9820e-003
tblVehicleEF	SBUS	2.7710e-003	2.7830e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.6600e-004	2.6000e-005
tblVehicleEF	SBUS	6.4210e-003	1.4060e-003
tblVehicleEF	SBUS	0.03	6.2120e-003
tblVehicleEF	SBUS	0.66	0.18
tblVehicleEF	SBUS	3.0640e-003	6.6900e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.04
tblVehicleEF	SBUS	0.24	0.02
tblVehicleEF	SBUS	0.01	3.2910e-003
tblVehicleEF	SBUS	0.01	0.01

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tblVehicleEF	SBUS	4.1800e-004	2.7000e-005
tblVehicleEF	SBUS	6.4210e-003	1.4060e-003
tblVehicleEF	SBUS	0.03	6.2120e-003
tblVehicleEF	SBUS	0.95	0.26
tblVehicleEF	SBUS	3.0640e-003	6.6900e-004
tblVehicleEF	SBUS	0.15	0.13
tblVehicleEF	SBUS	0.01	0.04
tblVehicleEF	SBUS	0.26	0.02
tblVehicleEF	SBUS	0.88	0.04
tblVehicleEF	SBUS	0.01	7.8800e-003
tblVehicleEF	SBUS	0.08	3.8540e-003
tblVehicleEF	SBUS	5.77	1.80
tblVehicleEF	SBUS	0.77	0.66
tblVehicleEF	SBUS	5.69	0.54
tblVehicleEF	SBUS	1,191.56	324.88
tblVehicleEF	SBUS	1,152.18	1,158.46
tblVehicleEF	SBUS	35.03	3.04
tblVehicleEF	SBUS	12.62	3.43
tblVehicleEF	SBUS	5.48	5.57
tblVehicleEF	SBUS	0.02	5.9860e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.0700e-004	2.8000e-005
tblVehicleEF	SBUS	0.02	5.7270e-003
tblVehicleEF	SBUS	2.7710e-003	2.7830e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.6600e-004	2.6000e-005

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tblVehicleEF	SBUS	3.5990e-003	8.1900e-004
tblVehicleEF	SBUS	0.03	6.4950e-003
tblVehicleEF	SBUS	0.67	0.18
tblVehicleEF	SBUS	1.3510e-003	3.5700e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.30	0.02
tblVehicleEF	SBUS	0.01	3.0870e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4900e-004	3.0000e-005
tblVehicleEF	SBUS	3.5990e-003	8.1900e-004
tblVehicleEF	SBUS	0.03	6.4950e-003
tblVehicleEF	SBUS	0.96	0.26
tblVehicleEF	SBUS	1.3510e-003	3.5700e-004
tblVehicleEF	SBUS	0.15	0.13
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.33	0.02
tblVehicleEF	UBUS	2.06	4.21
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	10.29	32.46
tblVehicleEF	UBUS	15.37	1.48
tblVehicleEF	UBUS	1,878.06	1,734.42
tblVehicleEF	UBUS	133.67	17.53
tblVehicleEF	UBUS	7.05	0.44
tblVehicleEF	UBUS	0.53	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	2.6710e-003

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tblVehicleEF	UBUS	1.3540e-003	1.5800e-004
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.08	2.5430e-003
tblVehicleEF	UBUS	1.2450e-003	1.4500e-004
tblVehicleEF	UBUS	8.7400e-003	1.5800e-003
tblVehicleEF	UBUS	0.13	9.1420e-003
tblVehicleEF	UBUS	4.1930e-003	6.5600e-004
tblVehicleEF	UBUS	0.72	0.07
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.23	0.07
tblVehicleEF	UBUS	0.01	4.0080e-003
tblVehicleEF	UBUS	1.6160e-003	1.7300e-004
tblVehicleEF	UBUS	8.7400e-003	1.5800e-003
tblVehicleEF	UBUS	0.13	9.1420e-003
tblVehicleEF	UBUS	4.1930e-003	6.5600e-004
tblVehicleEF	UBUS	2.85	4.31
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.34	0.08
tblVehicleEF	UBUS	2.07	4.21
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	10.40	32.46
tblVehicleEF	UBUS	12.59	1.21
tblVehicleEF	UBUS	1,878.06	1,734.42
tblVehicleEF	UBUS	133.67	17.09
tblVehicleEF	UBUS	6.56	0.44
tblVehicleEF	UBUS	0.53	0.08

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tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	2.6710e-003
tblVehicleEF	UBUS	1.3540e-003	1.5800e-004
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.08	2.5430e-003
tblVehicleEF	UBUS	1.2450e-003	1.4500e-004
tblVehicleEF	UBUS	0.02	3.0300e-003
tblVehicleEF	UBUS	0.16	0.01
tblVehicleEF	UBUS	9.9910e-003	1.5490e-003
tblVehicleEF	UBUS	0.73	0.07
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.09	0.06
tblVehicleEF	UBUS	0.01	4.0080e-003
tblVehicleEF	UBUS	1.5680e-003	1.6900e-004
tblVehicleEF	UBUS	0.02	3.0300e-003
tblVehicleEF	UBUS	0.16	0.01
tblVehicleEF	UBUS	9.9910e-003	1.5490e-003
tblVehicleEF	UBUS	2.87	4.31
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.20	0.07
tblVehicleEF	UBUS	2.06	4.21
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	10.30	32.46
tblVehicleEF	UBUS	14.85	1.44
tblVehicleEF	UBUS	1,878.06	1,734.42
tblVehicleEF	UBUS	133.67	17.48

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tblVehicleEF	UBUS	6.92	0.44
tblVehicleEF	UBUS	0.53	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	2.6710e-003
tblVehicleEF	UBUS	1.3540e-003	1.5800e-004
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.08	2.5430e-003
tblVehicleEF	UBUS	1.2450e-003	1.4500e-004
tblVehicleEF	UBUS	0.01	1.6780e-003
tblVehicleEF	UBUS	0.16	0.01
tblVehicleEF	UBUS	4.4110e-003	6.4600e-004
tblVehicleEF	UBUS	0.72	0.07
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.21	0.07
tblVehicleEF	UBUS	0.01	4.0080e-003
tblVehicleEF	UBUS	1.6070e-003	1.7300e-004
tblVehicleEF	UBUS	0.01	1.6780e-003
tblVehicleEF	UBUS	0.16	0.01
tblVehicleEF	UBUS	4.4110e-003	6.4600e-004
tblVehicleEF	UBUS	2.86	4.31
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.32	0.08
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

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tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.45
tblVehicleTrips	ST_TR	1.68	0.12
tblVehicleTrips	SU_TR	1.68	1.45
tblVehicleTrips	SU_TR	1.68	0.48
tblVehicleTrips	WD_TR	1.68	1.45
tblVehicleTrips	WD_TR	1.68	1.39

2.0 Emissions Summary

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145
Energy	0.0101	0.0916	0.0769	5.5000e-004		6.9600e-003	6.9600e-003		6.9600e-003	6.9600e-003	0.0000	597.6143	597.6143	0.0225	6.0800e-003	599.9881
Mobile	0.1040	0.1212	1.4630	4.0300e-003	0.4295	2.2900e-003	0.4318	0.1140	2.1100e-003	0.1161	0.0000	370.0064	370.0064	0.0103	0.0000	370.2641
Offroad	0.0268	0.3261	0.1424	5.8000e-004		0.0107	0.0107		9.8400e-003	9.8400e-003	0.0000	50.8328	50.8328	0.0164	0.0000	51.2438
Waste						0.0000	0.0000		0.0000	0.0000	31.5448	0.0000	31.5448	1.8642	0.0000	78.1509
Water						0.0000	0.0000		0.0000	0.0000	12.1287	158.6085	170.7372	1.2523	0.0308	211.2135
Total	0.8372	0.5389	1.6894	5.1600e-003	0.4295	0.0200	0.4495	0.1140	0.0189	0.1330	43.6735	1,177.0755	1,220.7490	3.1658	0.0369	1,310.8749

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145
Energy	0.0101	0.0916	0.0769	5.5000e-004		6.9600e-003	6.9600e-003		6.9600e-003	6.9600e-003	0.0000	597.6143	597.6143	0.0225	6.0800e-003	599.9881
Mobile	0.1040	0.1212	1.4630	4.0300e-003	0.4295	2.2900e-003	0.4318	0.1140	2.1100e-003	0.1161	0.0000	370.0064	370.0064	0.0103	0.0000	370.2641
Offroad	0.0268	0.3261	0.1424	5.8000e-004		0.0107	0.0107		9.8400e-003	9.8400e-003	0.0000	50.8328	50.8328	0.0164	0.0000	51.2438
Waste						0.0000	0.0000		0.0000	0.0000	31.5448	0.0000	31.5448	1.8642	0.0000	78.1509
Water						0.0000	0.0000		0.0000	0.0000	12.1287	158.6085	170.7372	1.2523	0.0308	211.2135
Total	0.8372	0.5389	1.6894	5.1600e-003	0.4295	0.0200	0.4495	0.1140	0.0189	0.1330	43.6735	1,177.0755	1,220.7490	3.1658	0.0369	1,310.8749

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/4/2020	5/3/2020	5	0	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 6.33

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

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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

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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	0.1040	0.1212	1.4630	4.0300e-003	0.4295	2.2900e-003	0.4318	0.1140	2.1100e-003	0.1161	0.0000	370.0064	370.0064	0.0103	0.0000	370.2641
Unmitigated	0.1040	0.1212	1.4630	4.0300e-003	0.4295	2.2900e-003	0.4318	0.1140	2.1100e-003	0.1161	0.0000	370.0064	370.0064	0.0103	0.0000	370.2641

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	48.01	48.01	48.01	290,098	290,098
Unrefrigerated Warehouse-No Rail	183.97	15.87	63.48	862,524	862,524
Total	231.98	63.88	111.49	1,152,622	1,152,622

4.3 Trip Type Information

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082
Other Non-Asphalt Surfaces	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082
Parking Lot	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082
Refrigerated Warehouse-No Rail	0.616300	0.042900	0.202100	0.138700	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.616300	0.042900	0.202100	0.138700	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

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-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	497.9039	497.9039	0.0206	4.2500e-003	499.6852
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	497.9039	497.9039	0.0206	4.2500e-003	499.6852
NaturalGas Mitigated	0.0101	0.0916	0.0769	5.5000e-004		6.9600e-003	6.9600e-003		6.9600e-003	6.9600e-003	0.0000	99.7104	99.7104	1.9100e-003	1.8300e-003	100.3029
NaturalGas Unmitigated	0.0101	0.0916	0.0769	5.5000e-004		6.9600e-003	6.9600e-003		6.9600e-003	6.9600e-003	0.0000	99.7104	99.7104	1.9100e-003	1.8300e-003	100.3029

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.67937e+006	9.0600e-003	0.0823	0.0692	4.9000e-004		6.2600e-003	6.2600e-003		6.2600e-003	6.2600e-003	0.0000	89.6177	89.6177	1.7200e-003	1.6400e-003	90.1502
Unrefrigerated Warehouse-No Rail	189130	1.0200e-003	9.2700e-003	7.7900e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	10.0927	10.0927	1.9000e-004	1.9000e-004	10.1527
Total		0.0101	0.0916	0.0769	5.5000e-004		6.9600e-003	6.9600e-003		6.9600e-003	6.9600e-003	0.0000	99.7104	99.7104	1.9100e-003	1.8300e-003	100.3029

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.67937e+006	9.0600e-003	0.0823	0.0692	4.9000e-004		6.2600e-003	6.2600e-003		6.2600e-003	6.2600e-003	0.0000	89.6177	89.6177	1.7200e-003	1.6400e-003	90.1502
Unrefrigerated Warehouse-No Rail	189130	1.0200e-003	9.2700e-003	7.7900e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	10.0927	10.0927	1.9000e-004	1.9000e-004	10.1527
Total		0.0101	0.0916	0.0769	5.5000e-004		6.9600e-003	6.9600e-003		6.9600e-003	6.9600e-003	0.0000	99.7104	99.7104	1.9100e-003	1.8300e-003	100.3029

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	24500	7.8062	3.2000e-004	7.0000e-005	7.8342
Refrigerated Warehouse-No Rail	1.28689e+006	410.0307	0.0169	3.5000e-003	411.4976
Unrefrigerated Warehouse-No Rail	251292	80.0671	3.3100e-003	6.8000e-004	80.3535
Total		497.9039	0.0206	4.2500e-003	499.6852

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	24500	7.8062	3.2000e-004	7.0000e-005	7.8342
Refrigerated Warehouse-No Rail	1.28689e+006	410.0307	0.0169	3.5000e-003	411.4976
Unrefrigerated Warehouse-No Rail	251292	80.0671	3.3100e-003	6.8000e-004	80.3535
Total		497.9039	0.0206	4.2500e-003	499.6852

6.0 Area Detail

6.1 Mitigation Measures Area

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-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					
Mitigated	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145
Unmitigated	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145

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	0.0805					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6152					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6000e-004	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145
Total	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

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	0.0805					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6152					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6000e-004	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145
Total	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145

7.0 Water Detail

7.1 Mitigation Measures Water

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	170.7372	1.2523	0.0308	211.2135
Unmitigated	170.7372	1.2523	0.0308	211.2135

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
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	7.64513 / 0	34.1433	0.2504	6.1500e-003	42.2376
Unrefrigerated Warehouse-No Rail	30.5851 / 0	136.5939	1.0019	0.0246	168.9759
Total		170.7372	1.2523	0.0308	211.2135

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

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
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	7.64513 / 0	34.1433	0.2504	6.1500e-003	42.2376
Unrefrigerated Warehouse-No Rail	30.5851 / 0	136.5939	1.0019	0.0246	168.9759
Total		170.7372	1.2523	0.0308	211.2135

8.0 Waste Detail

8.1 Mitigation Measures Waste

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	31.5448	1.8642	0.0000	78.1509
Unmitigated	31.5448	1.8642	0.0000	78.1509

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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	31.08	6.3090	0.3729	0.0000	15.6302
Unrefrigerated Warehouse-No Rail	124.32	25.2358	1.4914	0.0000	62.5207
Total		31.5448	1.8643	0.0000	78.1509

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	31.08	6.3090	0.3729	0.0000	15.6302
Unrefrigerated Warehouse-No Rail	124.32	25.2358	1.4914	0.0000	62.5207
Total		31.5448	1.8643	0.0000	78.1509

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	1	4.00	365	200	0.37	Diesel

Kaiser Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

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	0.0268	0.3261	0.1424	5.8000e-004		0.0107	0.0107		9.8400e-003	9.8400e-003	0.0000	50.8328	50.8328	0.0164	0.0000	51.2438
Total	0.0268	0.3261	0.1424	5.8000e-004		0.0107	0.0107		9.8400e-003	9.8400e-003	0.0000	50.8328	50.8328	0.0164	0.0000	51.2438

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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APPENDIX 3.3:

CALEEMOD OPERATIONS (TRUCK) EMISSIONS MODEL OUTPUTS

Kaiser Commerce Center (Operations - Trucks) - San Bernardino-South Coast County, Annual

Kaiser Commerce Center (Operations - Trucks)
San Bernardino-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	33.07	1000sqft	0.76	33,065.00	0
Unrefrigerated Warehouse-No Rail	132.26	1000sqft	3.04	132,259.00	0
Other Asphalt Surfaces	139.85	1000sqft	3.21	139,847.00	0
Other Non-Asphalt Surfaces	66.24	1000sqft	1.52	66,235.00	0
Parking Lot	175.00	Space	1.60	70,000.00	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Kaiser Commerce Center (Operations - Trucks) - San Bernardino-South Coast County, Annual

Project Characteristics -

Land Use - Total Project Area is 10.13 acres.

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 Kaiser Commerce Center Warehouse Trip Generation Assessment by Urban Crossroads, Inc.

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 Business 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.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.06	0.55
tblFleetMix	HHD	0.06	0.63
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00

Kaiser Commerce Center (Operations - Trucks) - San Bernardino-South Coast County, Annual

tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.36
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD2	5.4600e-003	0.00
tblFleetMix	LHD2	5.4600e-003	0.00
tblFleetMix	MCY	6.1170e-003	0.00
tblFleetMix	MCY	6.1170e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0820e-003	0.00
tblFleetMix	MH	1.0820e-003	0.00
tblFleetMix	MHD	0.02	0.09
tblFleetMix	MHD	0.02	0.21
tblFleetMix	OBUS	1.3370e-003	0.00
tblFleetMix	OBUS	1.3370e-003	0.00
tblFleetMix	SBUS	8.1700e-004	0.00
tblFleetMix	SBUS	8.1700e-004	0.00
tblFleetMix	UBUS	1.6570e-003	0.00
tblFleetMix	UBUS	1.6570e-003	0.00
tblLandUse	LotAcreage	1.57	1.60
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	OperHorsePower	97.00	200.00

Kaiser Commerce Center (Operations - Trucks) - San Bernardino-South Coast County, Annual

tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblVehicleEF	HHD	1.26	0.03
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.13	0.00
tblVehicleEF	HHD	3.65	7.49
tblVehicleEF	HHD	0.59	0.57
tblVehicleEF	HHD	2.11	2.5880e-003
tblVehicleEF	HHD	7,044.09	1,448.69
tblVehicleEF	HHD	1,507.82	1,437.97
tblVehicleEF	HHD	6.10	0.03
tblVehicleEF	HHD	29.67	7.68
tblVehicleEF	HHD	3.22	3.64
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	7.6000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8830e-003	8.9180e-003
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	7.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.0700e-004	5.0000e-006
tblVehicleEF	HHD	4.2590e-003	1.5400e-004
tblVehicleEF	HHD	0.94	0.60
tblVehicleEF	HHD	6.5000e-005	3.0000e-006

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tblVehicleEF	HHD	0.09	0.10
tblVehicleEF	HHD	2.9100e-004	7.7100e-004
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	9.6000e-005	0.00
tblVehicleEF	HHD	1.0700e-004	5.0000e-006
tblVehicleEF	HHD	4.2590e-003	1.5400e-004
tblVehicleEF	HHD	1.08	0.69
tblVehicleEF	HHD	6.5000e-005	3.0000e-006
tblVehicleEF	HHD	0.14	0.18
tblVehicleEF	HHD	2.9100e-004	7.7100e-004
tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	1.19	0.03
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.12	0.00
tblVehicleEF	HHD	2.66	7.32
tblVehicleEF	HHD	0.59	0.57
tblVehicleEF	HHD	1.99	2.4340e-003
tblVehicleEF	HHD	7,457.73	1,444.52
tblVehicleEF	HHD	1,507.82	1,437.97
tblVehicleEF	HHD	6.10	0.03
tblVehicleEF	HHD	30.61	7.46
tblVehicleEF	HHD	3.03	3.42
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04

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tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	7.6000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8830e-003	8.9180e-003
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	7.0000e-005	1.0000e-006
tblVehicleEF	HHD	2.1400e-004	1.0000e-005
tblVehicleEF	HHD	4.8950e-003	1.8100e-004
tblVehicleEF	HHD	0.89	0.63
tblVehicleEF	HHD	1.5100e-004	7.0000e-006
tblVehicleEF	HHD	0.09	0.10
tblVehicleEF	HHD	2.9900e-004	7.9700e-004
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	2.1400e-004	1.0000e-005
tblVehicleEF	HHD	4.8950e-003	1.8100e-004
tblVehicleEF	HHD	1.02	0.72
tblVehicleEF	HHD	1.5100e-004	7.0000e-006
tblVehicleEF	HHD	0.14	0.18
tblVehicleEF	HHD	2.9900e-004	7.9700e-004
tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	1.36	0.03
tblVehicleEF	HHD	0.04	4.6710e-003
tblVehicleEF	HHD	0.13	0.00

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tblVehicleEF	HHD	5.01	7.66
tblVehicleEF	HHD	0.59	0.43
tblVehicleEF	HHD	2.07	2.5600e-003
tblVehicleEF	HHD	6,472.88	1,440.00
tblVehicleEF	HHD	1,507.82	1,397.78
tblVehicleEF	HHD	6.10	0.03
tblVehicleEF	HHD	28.37	7.90
tblVehicleEF	HHD	3.17	3.54
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	7.6000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8830e-003	8.8180e-003
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	7.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.1000e-004	5.0000e-006
tblVehicleEF	HHD	4.8700e-003	1.8200e-004
tblVehicleEF	HHD	1.01	0.57
tblVehicleEF	HHD	6.4000e-005	3.0000e-006
tblVehicleEF	HHD	0.09	0.10
tblVehicleEF	HHD	3.1000e-004	8.0600e-004
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01

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tblVehicleEF	HHD	9.6000e-005	0.00
tblVehicleEF	HHD	1.1000e-004	5.0000e-006
tblVehicleEF	HHD	4.8700e-003	1.8200e-004
tblVehicleEF	HHD	1.16	0.65
tblVehicleEF	HHD	6.4000e-005	3.0000e-006
tblVehicleEF	HHD	0.14	0.11
tblVehicleEF	HHD	3.1000e-004	8.0600e-004
tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	LDA	5.1540e-003	3.2100e-003
tblVehicleEF	LDA	7.4770e-003	0.06
tblVehicleEF	LDA	0.66	0.77
tblVehicleEF	LDA	1.48	2.29
tblVehicleEF	LDA	271.76	276.68
tblVehicleEF	LDA	61.36	57.07
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	1.7360e-003	1.5890e-003
tblVehicleEF	LDA	2.3270e-003	2.0370e-003
tblVehicleEF	LDA	1.6000e-003	1.4630e-003
tblVehicleEF	LDA	2.1400e-003	1.8730e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.10	0.28
tblVehicleEF	LDA	2.7220e-003	2.7370e-003
tblVehicleEF	LDA	6.3900e-004	5.6500e-004

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tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.11	0.30
tblVehicleEF	LDA	5.8790e-003	3.6760e-003
tblVehicleEF	LDA	6.2340e-003	0.05
tblVehicleEF	LDA	0.81	0.94
tblVehicleEF	LDA	1.22	1.90
tblVehicleEF	LDA	297.40	302.23
tblVehicleEF	LDA	61.36	56.31
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	1.7360e-003	1.5890e-003
tblVehicleEF	LDA	2.3270e-003	2.0370e-003
tblVehicleEF	LDA	1.6000e-003	1.4630e-003
tblVehicleEF	LDA	2.1400e-003	1.8730e-003
tblVehicleEF	LDA	0.11	0.15
tblVehicleEF	LDA	0.14	0.14
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.9810e-003	2.9900e-003
tblVehicleEF	LDA	6.3500e-004	5.5700e-004
tblVehicleEF	LDA	0.11	0.15
tblVehicleEF	LDA	0.14	0.14

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tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.09	0.25
tblVehicleEF	LDA	5.0060e-003	3.1310e-003
tblVehicleEF	LDA	7.4230e-003	0.06
tblVehicleEF	LDA	0.62	0.73
tblVehicleEF	LDA	1.46	2.25
tblVehicleEF	LDA	265.71	270.69
tblVehicleEF	LDA	61.36	57.01
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	1.7360e-003	1.5890e-003
tblVehicleEF	LDA	2.3270e-003	2.0370e-003
tblVehicleEF	LDA	1.6000e-003	1.4630e-003
tblVehicleEF	LDA	2.1400e-003	1.8730e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.26
tblVehicleEF	LDA	0.10	0.27
tblVehicleEF	LDA	2.6610e-003	2.6780e-003
tblVehicleEF	LDA	6.3900e-004	5.6400e-004
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02

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tblVehicleEF	LDA	0.04	0.26
tblVehicleEF	LDA	0.11	0.30
tblVehicleEF	LDT1	0.02	9.4220e-003
tblVehicleEF	LDT1	0.02	0.10
tblVehicleEF	LDT1	1.88	1.84
tblVehicleEF	LDT1	4.45	2.64
tblVehicleEF	LDT1	332.44	327.73
tblVehicleEF	LDT1	74.44	69.37
tblVehicleEF	LDT1	0.20	0.17
tblVehicleEF	LDT1	3.0160e-003	2.6170e-003
tblVehicleEF	LDT1	4.1090e-003	3.3430e-003
tblVehicleEF	LDT1	2.7780e-003	2.4090e-003
tblVehicleEF	LDT1	3.7800e-003	3.0740e-003
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	0.38	0.31
tblVehicleEF	LDT1	0.14	0.16
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.23	1.04
tblVehicleEF	LDT1	0.32	0.54
tblVehicleEF	LDT1	3.3490e-003	3.2430e-003
tblVehicleEF	LDT1	8.2300e-004	6.8700e-004
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	0.38	0.31
tblVehicleEF	LDT1	0.14	0.16
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.23	1.04
tblVehicleEF	LDT1	0.35	0.59

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tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	2.25	2.22
tblVehicleEF	LDT1	3.66	2.18
tblVehicleEF	LDT1	362.07	354.55
tblVehicleEF	LDT1	74.44	68.34
tblVehicleEF	LDT1	0.18	0.16
tblVehicleEF	LDT1	3.0160e-003	2.6170e-003
tblVehicleEF	LDT1	4.1090e-003	3.3430e-003
tblVehicleEF	LDT1	2.7780e-003	2.4090e-003
tblVehicleEF	LDT1	3.7800e-003	3.0740e-003
tblVehicleEF	LDT1	0.42	0.48
tblVehicleEF	LDT1	0.47	0.39
tblVehicleEF	LDT1	0.30	0.34
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.23	1.04
tblVehicleEF	LDT1	0.27	0.45
tblVehicleEF	LDT1	3.6510e-003	3.5080e-003
tblVehicleEF	LDT1	8.0900e-004	6.7600e-004
tblVehicleEF	LDT1	0.42	0.48
tblVehicleEF	LDT1	0.47	0.39
tblVehicleEF	LDT1	0.30	0.34
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.23	1.04
tblVehicleEF	LDT1	0.29	0.49
tblVehicleEF	LDT1	0.02	9.2010e-003
tblVehicleEF	LDT1	0.02	0.10

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tblVehicleEF	LDT1	1.79	1.75
tblVehicleEF	LDT1	4.37	2.60
tblVehicleEF	LDT1	325.45	321.36
tblVehicleEF	LDT1	74.44	69.28
tblVehicleEF	LDT1	0.19	0.16
tblVehicleEF	LDT1	3.0160e-003	2.6170e-003
tblVehicleEF	LDT1	4.1090e-003	3.3430e-003
tblVehicleEF	LDT1	2.7780e-003	2.4090e-003
tblVehicleEF	LDT1	3.7800e-003	3.0740e-003
tblVehicleEF	LDT1	0.22	0.24
tblVehicleEF	LDT1	0.44	0.36
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.26	1.22
tblVehicleEF	LDT1	0.32	0.54
tblVehicleEF	LDT1	3.2780e-003	3.1800e-003
tblVehicleEF	LDT1	8.2200e-004	6.8600e-004
tblVehicleEF	LDT1	0.22	0.24
tblVehicleEF	LDT1	0.44	0.36
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.26	1.22
tblVehicleEF	LDT1	0.35	0.59
tblVehicleEF	LDT2	7.5900e-003	5.4250e-003
tblVehicleEF	LDT2	0.01	0.09
tblVehicleEF	LDT2	0.92	1.17
tblVehicleEF	LDT2	2.08	3.01

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tblVehicleEF	LDT2	375.03	356.41
tblVehicleEF	LDT2	84.46	75.61
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	1.7360e-003	1.6670e-003
tblVehicleEF	LDT2	2.4270e-003	2.1440e-003
tblVehicleEF	LDT2	1.5970e-003	1.5340e-003
tblVehicleEF	LDT2	2.2320e-003	1.9720e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.53
tblVehicleEF	LDT2	0.14	0.42
tblVehicleEF	LDT2	3.7580e-003	3.5260e-003
tblVehicleEF	LDT2	8.8000e-004	7.4800e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.08	0.53
tblVehicleEF	LDT2	0.16	0.46
tblVehicleEF	LDT2	8.6210e-003	6.1900e-003
tblVehicleEF	LDT2	8.8260e-003	0.07
tblVehicleEF	LDT2	1.12	1.42
tblVehicleEF	LDT2	1.72	2.48
tblVehicleEF	LDT2	409.49	383.08
tblVehicleEF	LDT2	84.46	74.56

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tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	1.7360e-003	1.6670e-003
tblVehicleEF	LDT2	2.4270e-003	2.1440e-003
tblVehicleEF	LDT2	1.5970e-003	1.5340e-003
tblVehicleEF	LDT2	2.2320e-003	1.9720e-003
tblVehicleEF	LDT2	0.15	0.23
tblVehicleEF	LDT2	0.17	0.20
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.52
tblVehicleEF	LDT2	0.12	0.35
tblVehicleEF	LDT2	4.1060e-003	3.7900e-003
tblVehicleEF	LDT2	8.7400e-004	7.3800e-004
tblVehicleEF	LDT2	0.15	0.23
tblVehicleEF	LDT2	0.17	0.20
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.07	0.52
tblVehicleEF	LDT2	0.13	0.38
tblVehicleEF	LDT2	7.3800e-003	5.2940e-003
tblVehicleEF	LDT2	0.01	0.09
tblVehicleEF	LDT2	0.87	1.11
tblVehicleEF	LDT2	2.04	2.96
tblVehicleEF	LDT2	366.89	350.08
tblVehicleEF	LDT2	84.46	75.53
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	1.7360e-003	1.6670e-003

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tblVehicleEF	LDT2	2.4270e-003	2.1440e-003
tblVehicleEF	LDT2	1.5970e-003	1.5340e-003
tblVehicleEF	LDT2	2.2320e-003	1.9720e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.16	0.19
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.09	0.61
tblVehicleEF	LDT2	0.14	0.41
tblVehicleEF	LDT2	3.6760e-003	3.4640e-003
tblVehicleEF	LDT2	8.8000e-004	7.4700e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.16	0.19
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.09	0.61
tblVehicleEF	LDT2	0.16	0.45
tblVehicleEF	LHD1	5.6900e-003	5.0880e-003
tblVehicleEF	LHD1	0.01	7.7680e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.18
tblVehicleEF	LHD1	1.27	1.08
tblVehicleEF	LHD1	2.93	1.12
tblVehicleEF	LHD1	9.23	9.45
tblVehicleEF	LHD1	620.09	663.36
tblVehicleEF	LHD1	31.53	11.23
tblVehicleEF	LHD1	0.09	0.08

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tblVehicleEF	LHD1	2.40	1.84
tblVehicleEF	LHD1	9.6100e-004	9.3100e-004
tblVehicleEF	LHD1	0.01	9.9320e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0840e-003	2.9900e-004
tblVehicleEF	LHD1	9.1900e-004	8.9100e-004
tblVehicleEF	LHD1	2.5180e-003	2.4830e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.9800e-004	2.7500e-004
tblVehicleEF	LHD1	3.8770e-003	3.4930e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8640e-003	1.6570e-003
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.35	0.65
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	6.0910e-003	6.4590e-003
tblVehicleEF	LHD1	3.7100e-004	1.1100e-004
tblVehicleEF	LHD1	3.8770e-003	3.4930e-003
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8640e-003	1.6570e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.35	0.65
tblVehicleEF	LHD1	0.33	0.10
tblVehicleEF	LHD1	5.6900e-003	5.1040e-003

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tblVehicleEF	LHD1	0.02	7.9500e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.18
tblVehicleEF	LHD1	1.29	1.10
tblVehicleEF	LHD1	2.74	1.04
tblVehicleEF	LHD1	9.23	9.45
tblVehicleEF	LHD1	620.09	663.40
tblVehicleEF	LHD1	31.53	11.10
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.25	1.73
tblVehicleEF	LHD1	9.6100e-004	9.3100e-004
tblVehicleEF	LHD1	0.01	9.9320e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0840e-003	2.9900e-004
tblVehicleEF	LHD1	9.1900e-004	8.9100e-004
tblVehicleEF	LHD1	2.5180e-003	2.4830e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.9800e-004	2.7500e-004
tblVehicleEF	LHD1	7.6890e-003	6.9750e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.2920e-003	3.8740e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.66
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	6.0910e-003	6.4590e-003

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tblVehicleEF	LHD1	3.6700e-004	1.1000e-004
tblVehicleEF	LHD1	7.6890e-003	6.9750e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.2920e-003	3.8740e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.35	0.66
tblVehicleEF	LHD1	0.32	0.10
tblVehicleEF	LHD1	5.6900e-003	5.0910e-003
tblVehicleEF	LHD1	0.01	7.7840e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.18
tblVehicleEF	LHD1	1.27	1.08
tblVehicleEF	LHD1	2.88	1.10
tblVehicleEF	LHD1	9.23	9.45
tblVehicleEF	LHD1	620.09	663.36
tblVehicleEF	LHD1	31.53	11.20
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.36	1.81
tblVehicleEF	LHD1	9.6100e-004	9.3100e-004
tblVehicleEF	LHD1	0.01	9.9320e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0840e-003	2.9900e-004
tblVehicleEF	LHD1	9.1900e-004	8.9100e-004
tblVehicleEF	LHD1	2.5180e-003	2.4830e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.9800e-004	2.7500e-004

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tblVehicleEF	LHD1	4.3010e-003	3.9210e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8380e-003	1.6360e-003
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.38	0.70
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	6.0910e-003	6.4590e-003
tblVehicleEF	LHD1	3.7000e-004	1.1100e-004
tblVehicleEF	LHD1	4.3010e-003	3.9210e-003
tblVehicleEF	LHD1	0.13	0.12
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8380e-003	1.6360e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.38	0.70
tblVehicleEF	LHD1	0.33	0.10
tblVehicleEF	LHD2	4.0010e-003	3.4940e-003
tblVehicleEF	LHD2	5.9170e-003	4.8970e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.14
tblVehicleEF	LHD2	0.63	0.67
tblVehicleEF	LHD2	1.40	0.67
tblVehicleEF	LHD2	14.35	14.68
tblVehicleEF	LHD2	619.96	664.05
tblVehicleEF	LHD2	25.37	8.14
tblVehicleEF	LHD2	0.12	0.12

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tblVehicleEF	LHD2	1.91	1.99
tblVehicleEF	LHD2	1.3140e-003	1.3790e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.6400e-004	1.4200e-004
tblVehicleEF	LHD2	1.2570e-003	1.3190e-003
tblVehicleEF	LHD2	2.6760e-003	2.6850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.2700e-004	1.3000e-004
tblVehicleEF	LHD2	1.5090e-003	1.7180e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7800e-004	8.5100e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.11	0.33
tblVehicleEF	LHD2	0.14	0.05
tblVehicleEF	LHD2	6.0350e-003	6.4090e-003
tblVehicleEF	LHD2	2.8000e-004	8.1000e-005
tblVehicleEF	LHD2	1.5090e-003	1.7180e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7800e-004	8.5100e-004
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.11	0.33
tblVehicleEF	LHD2	0.15	0.06
tblVehicleEF	LHD2	4.0010e-003	3.5050e-003
tblVehicleEF	LHD2	6.0090e-003	4.9550e-003

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tblVehicleEF	LHD2	9.7620e-003	0.01
tblVehicleEF	LHD2	0.13	0.14
tblVehicleEF	LHD2	0.63	0.68
tblVehicleEF	LHD2	1.32	0.63
tblVehicleEF	LHD2	14.35	14.68
tblVehicleEF	LHD2	619.96	664.06
tblVehicleEF	LHD2	25.37	8.07
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.80	1.87
tblVehicleEF	LHD2	1.3140e-003	1.3790e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.6400e-004	1.4200e-004
tblVehicleEF	LHD2	1.2570e-003	1.3190e-003
tblVehicleEF	LHD2	2.6760e-003	2.6850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.2700e-004	1.3000e-004
tblVehicleEF	LHD2	2.9270e-003	3.3570e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.7180e-003	1.9120e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.11	0.33
tblVehicleEF	LHD2	0.13	0.05
tblVehicleEF	LHD2	6.0350e-003	6.4090e-003
tblVehicleEF	LHD2	2.7800e-004	8.0000e-005
tblVehicleEF	LHD2	2.9270e-003	3.3570e-003

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tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.7180e-003	1.9120e-003
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.11	0.33
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.0010e-003	3.4970e-003
tblVehicleEF	LHD2	5.9270e-003	4.9040e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.14
tblVehicleEF	LHD2	0.63	0.67
tblVehicleEF	LHD2	1.38	0.66
tblVehicleEF	LHD2	14.35	14.68
tblVehicleEF	LHD2	619.96	664.05
tblVehicleEF	LHD2	25.37	8.12
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.88	1.96
tblVehicleEF	LHD2	1.3140e-003	1.3790e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.6400e-004	1.4200e-004
tblVehicleEF	LHD2	1.2570e-003	1.3190e-003
tblVehicleEF	LHD2	2.6760e-003	2.6850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.2700e-004	1.3000e-004
tblVehicleEF	LHD2	1.5970e-003	1.8540e-003
tblVehicleEF	LHD2	0.05	0.06

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tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.6400e-004	8.3300e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.11	0.35
tblVehicleEF	LHD2	0.14	0.05
tblVehicleEF	LHD2	6.0350e-003	6.4090e-003
tblVehicleEF	LHD2	2.7900e-004	8.0000e-005
tblVehicleEF	LHD2	1.5970e-003	1.8540e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.6400e-004	8.3300e-004
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.11	0.35
tblVehicleEF	LHD2	0.15	0.06
tblVehicleEF	MCY	0.41	0.33
tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	21.63	21.70
tblVehicleEF	MCY	9.90	8.75
tblVehicleEF	MCY	166.31	211.44
tblVehicleEF	MCY	47.31	62.20
tblVehicleEF	MCY	1.17	1.18
tblVehicleEF	MCY	1.7690e-003	1.7420e-003
tblVehicleEF	MCY	3.8320e-003	3.1620e-003
tblVehicleEF	MCY	1.6590e-003	1.6340e-003
tblVehicleEF	MCY	3.6220e-003	2.9860e-003
tblVehicleEF	MCY	1.45	1.43
tblVehicleEF	MCY	0.86	0.84

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tblVehicleEF	MCY	0.81	0.80
tblVehicleEF	MCY	2.28	2.28
tblVehicleEF	MCY	0.51	2.16
tblVehicleEF	MCY	2.19	1.93
tblVehicleEF	MCY	2.0810e-003	2.0920e-003
tblVehicleEF	MCY	7.0000e-004	6.1600e-004
tblVehicleEF	MCY	1.45	1.43
tblVehicleEF	MCY	0.86	0.84
tblVehicleEF	MCY	0.81	0.80
tblVehicleEF	MCY	2.77	2.77
tblVehicleEF	MCY	0.51	2.16
tblVehicleEF	MCY	2.38	2.10
tblVehicleEF	MCY	0.41	0.33
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	21.75	21.83
tblVehicleEF	MCY	9.07	7.97
tblVehicleEF	MCY	166.31	211.41
tblVehicleEF	MCY	47.31	60.03
tblVehicleEF	MCY	1.00	1.00
tblVehicleEF	MCY	1.7690e-003	1.7420e-003
tblVehicleEF	MCY	3.8320e-003	3.1620e-003
tblVehicleEF	MCY	1.6590e-003	1.6340e-003
tblVehicleEF	MCY	3.6220e-003	2.9860e-003
tblVehicleEF	MCY	3.14	3.12
tblVehicleEF	MCY	1.28	1.27
tblVehicleEF	MCY	2.15	2.12
tblVehicleEF	MCY	2.21	2.21

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tblVehicleEF	MCY	0.50	2.15
tblVehicleEF	MCY	1.88	1.65
tblVehicleEF	MCY	2.0810e-003	2.0920e-003
tblVehicleEF	MCY	6.7600e-004	5.9400e-004
tblVehicleEF	MCY	3.14	3.12
tblVehicleEF	MCY	1.28	1.27
tblVehicleEF	MCY	2.15	2.12
tblVehicleEF	MCY	2.70	2.69
tblVehicleEF	MCY	0.50	2.15
tblVehicleEF	MCY	2.05	1.79
tblVehicleEF	MCY	0.41	0.33
tblVehicleEF	MCY	0.15	0.25
tblVehicleEF	MCY	20.62	20.68
tblVehicleEF	MCY	9.51	8.39
tblVehicleEF	MCY	166.31	209.68
tblVehicleEF	MCY	47.31	61.38
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	1.7690e-003	1.7420e-003
tblVehicleEF	MCY	3.8320e-003	3.1620e-003
tblVehicleEF	MCY	1.6590e-003	1.6340e-003
tblVehicleEF	MCY	3.6220e-003	2.9860e-003
tblVehicleEF	MCY	1.71	1.69
tblVehicleEF	MCY	1.15	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.24	2.23
tblVehicleEF	MCY	0.57	2.45
tblVehicleEF	MCY	2.11	1.85

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tblVehicleEF	MCY	2.0640e-003	2.0750e-003
tblVehicleEF	MCY	6.9100e-004	6.0700e-004
tblVehicleEF	MCY	1.71	1.69
tblVehicleEF	MCY	1.15	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.73	2.72
tblVehicleEF	MCY	0.57	2.45
tblVehicleEF	MCY	2.30	2.01
tblVehicleEF	MDV	0.02	7.4600e-003
tblVehicleEF	MDV	0.02	0.11
tblVehicleEF	MDV	1.73	1.47
tblVehicleEF	MDV	3.93	3.71
tblVehicleEF	MDV	510.99	438.31
tblVehicleEF	MDV	113.32	92.88
tblVehicleEF	MDV	0.22	0.16
tblVehicleEF	MDV	1.8900e-003	1.7940e-003
tblVehicleEF	MDV	2.6570e-003	2.2880e-003
tblVehicleEF	MDV	1.7440e-003	1.6560e-003
tblVehicleEF	MDV	2.4460e-003	2.1070e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.11	0.55
tblVehicleEF	MDV	0.31	0.54
tblVehicleEF	MDV	5.1260e-003	4.3340e-003
tblVehicleEF	MDV	1.2030e-003	9.1900e-004

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tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.11	0.55
tblVehicleEF	MDV	0.34	0.59
tblVehicleEF	MDV	0.02	8.4130e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	2.07	1.77
tblVehicleEF	MDV	3.28	3.07
tblVehicleEF	MDV	556.34	466.62
tblVehicleEF	MDV	113.32	91.58
tblVehicleEF	MDV	0.20	0.14
tblVehicleEF	MDV	1.8900e-003	1.7940e-003
tblVehicleEF	MDV	2.6570e-003	2.2880e-003
tblVehicleEF	MDV	1.7440e-003	1.6560e-003
tblVehicleEF	MDV	2.4460e-003	2.1070e-003
tblVehicleEF	MDV	0.21	0.26
tblVehicleEF	MDV	0.25	0.22
tblVehicleEF	MDV	0.18	0.22
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.55
tblVehicleEF	MDV	0.26	0.45
tblVehicleEF	MDV	5.5850e-003	4.6140e-003
tblVehicleEF	MDV	1.1910e-003	9.0600e-004
tblVehicleEF	MDV	0.21	0.26
tblVehicleEF	MDV	0.25	0.22

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tblVehicleEF	MDV	0.18	0.22
tblVehicleEF	MDV	0.07	0.05
tblVehicleEF	MDV	0.11	0.55
tblVehicleEF	MDV	0.29	0.50
tblVehicleEF	MDV	0.01	7.2640e-003
tblVehicleEF	MDV	0.02	0.11
tblVehicleEF	MDV	1.63	1.39
tblVehicleEF	MDV	3.86	3.65
tblVehicleEF	MDV	500.39	431.57
tblVehicleEF	MDV	113.32	92.77
tblVehicleEF	MDV	0.21	0.15
tblVehicleEF	MDV	1.8900e-003	1.7940e-003
tblVehicleEF	MDV	2.6570e-003	2.2880e-003
tblVehicleEF	MDV	1.7440e-003	1.6560e-003
tblVehicleEF	MDV	2.4460e-003	2.1070e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.63
tblVehicleEF	MDV	0.31	0.54
tblVehicleEF	MDV	5.0190e-003	4.2670e-003
tblVehicleEF	MDV	1.2020e-003	9.1800e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.06	0.05

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tblVehicleEF	MDV	0.13	0.63
tblVehicleEF	MDV	0.34	0.59
tblVehicleEF	MH	0.04	3.9290e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	4.29	0.37
tblVehicleEF	MH	7.50	0.00
tblVehicleEF	MH	1,044.38	962.75
tblVehicleEF	MH	61.75	0.00
tblVehicleEF	MH	1.73	4.84
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.16
tblVehicleEF	MH	1.5070e-003	0.00
tblVehicleEF	MH	3.2190e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.15
tblVehicleEF	MH	1.3940e-003	0.00
tblVehicleEF	MH	1.65	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.01	9.1010e-003
tblVehicleEF	MH	7.4900e-004	0.00
tblVehicleEF	MH	1.65	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.19	0.10

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tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MH	0.05	3.9290e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	4.46	0.37
tblVehicleEF	MH	6.85	0.00
tblVehicleEF	MH	1,044.38	962.75
tblVehicleEF	MH	61.75	0.00
tblVehicleEF	MH	1.58	4.55
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.16
tblVehicleEF	MH	1.5070e-003	0.00
tblVehicleEF	MH	3.2190e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.15
tblVehicleEF	MH	1.3940e-003	0.00
tblVehicleEF	MH	3.30	0.00
tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	1.37	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.01	9.1010e-003
tblVehicleEF	MH	7.3800e-004	0.00
tblVehicleEF	MH	3.30	0.00
tblVehicleEF	MH	0.12	0.00
tblVehicleEF	MH	1.37	0.00
tblVehicleEF	MH	0.20	0.10

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tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.04	3.9290e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	4.28	0.37
tblVehicleEF	MH	7.39	0.00
tblVehicleEF	MH	1,044.38	962.75
tblVehicleEF	MH	61.75	0.00
tblVehicleEF	MH	1.69	4.76
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.16
tblVehicleEF	MH	1.5070e-003	0.00
tblVehicleEF	MH	3.2190e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.15
tblVehicleEF	MH	1.3940e-003	0.00
tblVehicleEF	MH	2.00	0.00
tblVehicleEF	MH	0.13	0.00
tblVehicleEF	MH	0.59	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.44	0.00
tblVehicleEF	MH	0.01	9.1010e-003
tblVehicleEF	MH	7.4700e-004	0.00
tblVehicleEF	MH	2.00	0.00
tblVehicleEF	MH	0.13	0.00
tblVehicleEF	MH	0.59	0.00
tblVehicleEF	MH	0.19	0.10

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tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MHD	0.02	3.2690e-003
tblVehicleEF	MHD	6.5200e-003	7.4410e-003
tblVehicleEF	MHD	0.06	9.2700e-003
tblVehicleEF	MHD	0.41	0.34
tblVehicleEF	MHD	0.48	0.67
tblVehicleEF	MHD	6.64	1.11
tblVehicleEF	MHD	157.61	72.65
tblVehicleEF	MHD	1,102.10	1,047.06
tblVehicleEF	MHD	54.49	8.73
tblVehicleEF	MHD	0.99	0.68
tblVehicleEF	MHD	1.67	2.66
tblVehicleEF	MHD	2.8010e-003	2.4760e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.7800e-004	1.1500e-004
tblVehicleEF	MHD	2.6800e-003	2.3690e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.0700e-004	1.0600e-004
tblVehicleEF	MHD	1.5850e-003	7.5000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.7500e-004	3.6500e-004
tblVehicleEF	MHD	0.08	0.13
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.40	0.05
tblVehicleEF	MHD	1.5150e-003	6.8900e-004

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tblVehicleEF	MHD	0.01	9.9770e-003
tblVehicleEF	MHD	6.6100e-004	8.6000e-005
tblVehicleEF	MHD	1.5850e-003	7.5000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.7500e-004	3.6500e-004
tblVehicleEF	MHD	0.09	0.15
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.44	0.05
tblVehicleEF	MHD	0.02	3.0990e-003
tblVehicleEF	MHD	6.6290e-003	7.5050e-003
tblVehicleEF	MHD	0.06	8.8360e-003
tblVehicleEF	MHD	0.29	0.28
tblVehicleEF	MHD	0.49	0.68
tblVehicleEF	MHD	6.20	1.04
tblVehicleEF	MHD	166.94	74.24
tblVehicleEF	MHD	1,102.10	1,047.07
tblVehicleEF	MHD	54.49	8.61
tblVehicleEF	MHD	1.02	0.69
tblVehicleEF	MHD	1.57	2.50
tblVehicleEF	MHD	2.3620e-003	2.0900e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.7800e-004	1.1500e-004
tblVehicleEF	MHD	2.2590e-003	1.9990e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.0700e-004	1.0600e-004
tblVehicleEF	MHD	3.1650e-003	1.5010e-003

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tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.8350e-003	8.6900e-004
tblVehicleEF	MHD	0.08	0.13
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.38	0.05
tblVehicleEF	MHD	1.6030e-003	7.0400e-004
tblVehicleEF	MHD	0.01	9.9770e-003
tblVehicleEF	MHD	6.5400e-004	8.5000e-005
tblVehicleEF	MHD	3.1650e-003	1.5010e-003
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.8350e-003	8.6900e-004
tblVehicleEF	MHD	0.09	0.15
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.42	0.05
tblVehicleEF	MHD	0.02	3.5160e-003
tblVehicleEF	MHD	6.5300e-003	7.4460e-003
tblVehicleEF	MHD	0.06	9.1670e-003
tblVehicleEF	MHD	0.56	0.43
tblVehicleEF	MHD	0.48	0.68
tblVehicleEF	MHD	6.52	1.09
tblVehicleEF	MHD	144.70	70.46
tblVehicleEF	MHD	1,102.10	1,047.06
tblVehicleEF	MHD	54.49	8.70
tblVehicleEF	MHD	0.94	0.66
tblVehicleEF	MHD	1.64	2.61

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tblVehicleEF	MHD	3.4090e-003	3.0090e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.7800e-004	1.1500e-004
tblVehicleEF	MHD	3.2610e-003	2.8790e-003
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	MHD	8.0700e-004	1.0600e-004
tblVehicleEF	MHD	1.7730e-003	8.4100e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.6800e-004	3.6200e-004
tblVehicleEF	MHD	0.08	0.13
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.40	0.05
tblVehicleEF	MHD	1.3930e-003	6.6800e-004
tblVehicleEF	MHD	0.01	9.9770e-003
tblVehicleEF	MHD	6.5900e-004	8.6000e-005
tblVehicleEF	MHD	1.7730e-003	8.4100e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.6800e-004	3.6200e-004
tblVehicleEF	MHD	0.09	0.15
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.43	0.05
tblVehicleEF	OBUS	0.01	9.4880e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.27	0.49

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tblVehicleEF	OBUS	0.84	1.38
tblVehicleEF	OBUS	7.08	2.89
tblVehicleEF	OBUS	69.66	68.94
tblVehicleEF	OBUS	1,125.58	1,531.86
tblVehicleEF	OBUS	71.49	22.61
tblVehicleEF	OBUS	0.36	0.44
tblVehicleEF	OBUS	1.31	1.73
tblVehicleEF	OBUS	1.6600e-004	2.0970e-003
tblVehicleEF	OBUS	6.3680e-003	0.03
tblVehicleEF	OBUS	9.0100e-004	2.3900e-004
tblVehicleEF	OBUS	1.5900e-004	2.0060e-003
tblVehicleEF	OBUS	6.0730e-003	0.03
tblVehicleEF	OBUS	8.2900e-004	2.2000e-004
tblVehicleEF	OBUS	2.2890e-003	2.8330e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.6000e-004	1.1430e-003
tblVehicleEF	OBUS	0.05	0.10
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.44	0.14
tblVehicleEF	OBUS	6.7700e-004	6.5900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.3900e-004	2.2400e-004
tblVehicleEF	OBUS	2.2890e-003	2.8330e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.6000e-004	1.1430e-003

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tblVehicleEF	OBUS	0.07	0.13
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.48	0.15
tblVehicleEF	OBUS	0.01	9.5010e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.26	0.46
tblVehicleEF	OBUS	0.86	1.41
tblVehicleEF	OBUS	6.48	2.65
tblVehicleEF	OBUS	72.76	69.63
tblVehicleEF	OBUS	1,125.58	1,531.92
tblVehicleEF	OBUS	71.49	22.21
tblVehicleEF	OBUS	0.37	0.44
tblVehicleEF	OBUS	1.21	1.60
tblVehicleEF	OBUS	1.4000e-004	1.7700e-003
tblVehicleEF	OBUS	6.3680e-003	0.03
tblVehicleEF	OBUS	9.0100e-004	2.3900e-004
tblVehicleEF	OBUS	1.3400e-004	1.6940e-003
tblVehicleEF	OBUS	6.0730e-003	0.03
tblVehicleEF	OBUS	8.2900e-004	2.2000e-004
tblVehicleEF	OBUS	4.4650e-003	5.5400e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	2.2300e-003	2.6720e-003
tblVehicleEF	OBUS	0.06	0.10
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.41	0.13

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tblVehicleEF	OBUS	7.0700e-004	6.6500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2900e-004	2.2000e-004
tblVehicleEF	OBUS	4.4650e-003	5.5400e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.2300e-003	2.6720e-003
tblVehicleEF	OBUS	0.07	0.13
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.45	0.15
tblVehicleEF	OBUS	0.01	9.5070e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.29	0.52
tblVehicleEF	OBUS	0.84	1.38
tblVehicleEF	OBUS	7.02	2.87
tblVehicleEF	OBUS	65.38	68.00
tblVehicleEF	OBUS	1,125.58	1,531.87
tblVehicleEF	OBUS	71.49	22.58
tblVehicleEF	OBUS	0.35	0.44
tblVehicleEF	OBUS	1.28	1.70
tblVehicleEF	OBUS	2.0300e-004	2.5470e-003
tblVehicleEF	OBUS	6.3680e-003	0.03
tblVehicleEF	OBUS	9.0100e-004	2.3900e-004
tblVehicleEF	OBUS	1.9400e-004	2.4370e-003
tblVehicleEF	OBUS	6.0730e-003	0.03
tblVehicleEF	OBUS	8.2900e-004	2.2000e-004

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tblVehicleEF	OBUS	2.4760e-003	3.1080e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.7500e-004	1.1620e-003
tblVehicleEF	OBUS	0.05	0.10
tblVehicleEF	OBUS	0.06	0.33
tblVehicleEF	OBUS	0.44	0.14
tblVehicleEF	OBUS	6.3600e-004	6.5000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.3800e-004	2.2300e-004
tblVehicleEF	OBUS	2.4760e-003	3.1080e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.7500e-004	1.1620e-003
tblVehicleEF	OBUS	0.07	0.13
tblVehicleEF	OBUS	0.06	0.33
tblVehicleEF	OBUS	0.48	0.15
tblVehicleEF	SBUS	0.87	0.04
tblVehicleEF	SBUS	0.01	7.8850e-003
tblVehicleEF	SBUS	0.08	3.7580e-003
tblVehicleEF	SBUS	5.54	1.74
tblVehicleEF	SBUS	0.77	0.66
tblVehicleEF	SBUS	5.64	0.52
tblVehicleEF	SBUS	1,282.62	337.41
tblVehicleEF	SBUS	1,152.18	1,158.46
tblVehicleEF	SBUS	35.03	3.01
tblVehicleEF	SBUS	13.20	3.54

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tblVehicleEF	SBUS	5.57	5.66
tblVehicleEF	SBUS	0.02	4.9280e-003
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tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.0700e-004	2.8000e-005
tblVehicleEF	SBUS	0.01	4.7150e-003
tblVehicleEF	SBUS	2.7710e-003	2.7830e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.6600e-004	2.6000e-005
tblVehicleEF	SBUS	3.3280e-003	7.8600e-004
tblVehicleEF	SBUS	0.02	5.8070e-003
tblVehicleEF	SBUS	0.67	0.18
tblVehicleEF	SBUS	1.3510e-003	3.4400e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.29	0.02
tblVehicleEF	SBUS	0.01	3.2060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4800e-004	3.0000e-005
tblVehicleEF	SBUS	3.3280e-003	7.8600e-004
tblVehicleEF	SBUS	0.02	5.8070e-003
tblVehicleEF	SBUS	0.95	0.26
tblVehicleEF	SBUS	1.3510e-003	3.4400e-004
tblVehicleEF	SBUS	0.15	0.13
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	0.87	0.04

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tblVehicleEF	SBUS	0.01	7.9830e-003
tblVehicleEF	SBUS	0.06	3.1210e-003
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tblVehicleEF	SBUS	0.78	0.67
tblVehicleEF	SBUS	3.86	0.37
tblVehicleEF	SBUS	1,348.56	346.48
tblVehicleEF	SBUS	1,152.18	1,158.48
tblVehicleEF	SBUS	35.03	2.75
tblVehicleEF	SBUS	13.63	3.62
tblVehicleEF	SBUS	5.22	5.31
tblVehicleEF	SBUS	0.01	4.1620e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.0700e-004	2.8000e-005
tblVehicleEF	SBUS	0.01	3.9820e-003
tblVehicleEF	SBUS	2.7710e-003	2.7830e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.6600e-004	2.6000e-005
tblVehicleEF	SBUS	6.4210e-003	1.4060e-003
tblVehicleEF	SBUS	0.03	6.2120e-003
tblVehicleEF	SBUS	0.66	0.18
tblVehicleEF	SBUS	3.0640e-003	6.6900e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.04
tblVehicleEF	SBUS	0.24	0.02
tblVehicleEF	SBUS	0.01	3.2910e-003
tblVehicleEF	SBUS	0.01	0.01

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tblVehicleEF	SBUS	4.1800e-004	2.7000e-005
tblVehicleEF	SBUS	6.4210e-003	1.4060e-003
tblVehicleEF	SBUS	0.03	6.2120e-003
tblVehicleEF	SBUS	0.95	0.26
tblVehicleEF	SBUS	3.0640e-003	6.6900e-004
tblVehicleEF	SBUS	0.15	0.13
tblVehicleEF	SBUS	0.01	0.04
tblVehicleEF	SBUS	0.26	0.02
tblVehicleEF	SBUS	0.88	0.04
tblVehicleEF	SBUS	0.01	7.8800e-003
tblVehicleEF	SBUS	0.08	3.8540e-003
tblVehicleEF	SBUS	5.77	1.80
tblVehicleEF	SBUS	0.77	0.66
tblVehicleEF	SBUS	5.69	0.54
tblVehicleEF	SBUS	1,191.56	324.88
tblVehicleEF	SBUS	1,152.18	1,158.46
tblVehicleEF	SBUS	35.03	3.04
tblVehicleEF	SBUS	12.62	3.43
tblVehicleEF	SBUS	5.48	5.57
tblVehicleEF	SBUS	0.02	5.9860e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.0700e-004	2.8000e-005
tblVehicleEF	SBUS	0.02	5.7270e-003
tblVehicleEF	SBUS	2.7710e-003	2.7830e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.6600e-004	2.6000e-005

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tblVehicleEF	SBUS	3.5990e-003	8.1900e-004
tblVehicleEF	SBUS	0.03	6.4950e-003
tblVehicleEF	SBUS	0.67	0.18
tblVehicleEF	SBUS	1.3510e-003	3.5700e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.30	0.02
tblVehicleEF	SBUS	0.01	3.0870e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4900e-004	3.0000e-005
tblVehicleEF	SBUS	3.5990e-003	8.1900e-004
tblVehicleEF	SBUS	0.03	6.4950e-003
tblVehicleEF	SBUS	0.96	0.26
tblVehicleEF	SBUS	1.3510e-003	3.5700e-004
tblVehicleEF	SBUS	0.15	0.13
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.33	0.02
tblVehicleEF	UBUS	2.06	4.21
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	10.29	32.46
tblVehicleEF	UBUS	15.37	1.48
tblVehicleEF	UBUS	1,878.06	1,734.42
tblVehicleEF	UBUS	133.67	17.53
tblVehicleEF	UBUS	7.05	0.44
tblVehicleEF	UBUS	0.53	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	2.6710e-003

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tblVehicleEF	UBUS	1.3540e-003	1.5800e-004
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
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tblVehicleEF	UBUS	1.2450e-003	1.4500e-004
tblVehicleEF	UBUS	8.7400e-003	1.5800e-003
tblVehicleEF	UBUS	0.13	9.1420e-003
tblVehicleEF	UBUS	4.1930e-003	6.5600e-004
tblVehicleEF	UBUS	0.72	0.07
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.23	0.07
tblVehicleEF	UBUS	0.01	4.0080e-003
tblVehicleEF	UBUS	1.6160e-003	1.7300e-004
tblVehicleEF	UBUS	8.7400e-003	1.5800e-003
tblVehicleEF	UBUS	0.13	9.1420e-003
tblVehicleEF	UBUS	4.1930e-003	6.5600e-004
tblVehicleEF	UBUS	2.85	4.31
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.34	0.08
tblVehicleEF	UBUS	2.07	4.21
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	10.40	32.46
tblVehicleEF	UBUS	12.59	1.21
tblVehicleEF	UBUS	1,878.06	1,734.42
tblVehicleEF	UBUS	133.67	17.09
tblVehicleEF	UBUS	6.56	0.44
tblVehicleEF	UBUS	0.53	0.08

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tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	2.6710e-003
tblVehicleEF	UBUS	1.3540e-003	1.5800e-004
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.08	2.5430e-003
tblVehicleEF	UBUS	1.2450e-003	1.4500e-004
tblVehicleEF	UBUS	0.02	3.0300e-003
tblVehicleEF	UBUS	0.16	0.01
tblVehicleEF	UBUS	9.9910e-003	1.5490e-003
tblVehicleEF	UBUS	0.73	0.07
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.09	0.06
tblVehicleEF	UBUS	0.01	4.0080e-003
tblVehicleEF	UBUS	1.5680e-003	1.6900e-004
tblVehicleEF	UBUS	0.02	3.0300e-003
tblVehicleEF	UBUS	0.16	0.01
tblVehicleEF	UBUS	9.9910e-003	1.5490e-003
tblVehicleEF	UBUS	2.87	4.31
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.20	0.07
tblVehicleEF	UBUS	2.06	4.21
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	10.30	32.46
tblVehicleEF	UBUS	14.85	1.44
tblVehicleEF	UBUS	1,878.06	1,734.42
tblVehicleEF	UBUS	133.67	17.48

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tblVehicleEF	UBUS	6.92	0.44
tblVehicleEF	UBUS	0.53	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	2.6710e-003
tblVehicleEF	UBUS	1.3540e-003	1.5800e-004
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.08	2.5430e-003
tblVehicleEF	UBUS	1.2450e-003	1.4500e-004
tblVehicleEF	UBUS	0.01	1.6780e-003
tblVehicleEF	UBUS	0.16	0.01
tblVehicleEF	UBUS	4.4110e-003	6.4600e-004
tblVehicleEF	UBUS	0.72	0.07
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.21	0.07
tblVehicleEF	UBUS	0.01	4.0080e-003
tblVehicleEF	UBUS	1.6070e-003	1.7300e-004
tblVehicleEF	UBUS	0.01	1.6780e-003
tblVehicleEF	UBUS	0.16	0.01
tblVehicleEF	UBUS	4.4110e-003	6.4600e-004
tblVehicleEF	UBUS	2.86	4.31
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.32	0.08
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00

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tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.67
tblVehicleTrips	ST_TR	1.68	0.03
tblVehicleTrips	SU_TR	1.68	0.67
tblVehicleTrips	SU_TR	1.68	0.12
tblVehicleTrips	WD_TR	1.68	0.67
tblVehicleTrips	WD_TR	1.68	0.36

2.0 Emissions Summary

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145
Energy	0.0101	0.0916	0.0769	5.5000e-004		6.9600e-003	6.9600e-003		6.9600e-003	6.9600e-003	0.0000	597.6143	597.6143	0.0225	6.0800e-003	599.9881
Mobile	0.1113	3.3351	0.7910	0.0107	0.3748	0.0505	0.4253	0.1054	0.0483	0.1537	0.0000	1,040.3585	1,040.3585	0.0365	0.0000	1,041.2717
Offroad	0.0268	0.3261	0.1424	5.8000e-004		0.0107	0.0107		9.8400e-003	9.8400e-003	0.0000	50.8328	50.8328	0.0164	0.0000	51.2438
Waste						0.0000	0.0000		0.0000	0.0000	31.5448	0.0000	31.5448	1.8642	0.0000	78.1509
Water						0.0000	0.0000		0.0000	0.0000	12.1287	158.6085	170.7372	1.2523	0.0308	211.2135
Total	0.8446	3.7528	1.0174	0.0118	0.3748	0.0682	0.4430	0.1054	0.0652	0.1705	43.6735	1,847.4277	1,891.1012	3.1920	0.0369	1,981.8825

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145
Energy	0.0101	0.0916	0.0769	5.5000e-004		6.9600e-003	6.9600e-003		6.9600e-003	6.9600e-003	0.0000	597.6143	597.6143	0.0225	6.0800e-003	599.9881
Mobile	0.1113	3.3351	0.7910	0.0107	0.3748	0.0505	0.4253	0.1054	0.0483	0.1537	0.0000	1,040.3585	1,040.3585	0.0365	0.0000	1,041.2717
Offroad	0.0268	0.3261	0.1424	5.8000e-004		0.0107	0.0107		9.8400e-003	9.8400e-003	0.0000	50.8328	50.8328	0.0164	0.0000	51.2438
Waste						0.0000	0.0000		0.0000	0.0000	31.5448	0.0000	31.5448	1.8642	0.0000	78.1509
Water						0.0000	0.0000		0.0000	0.0000	12.1287	158.6085	170.7372	1.2523	0.0308	211.2135
Total	0.8446	3.7528	1.0174	0.0118	0.3748	0.0682	0.4430	0.1054	0.0652	0.1705	43.6735	1,847.4277	1,891.1012	3.1920	0.0369	1,981.8825

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/4/2020	5/3/2020	5	0	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 6.33

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

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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

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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	0.1113	3.3351	0.7910	0.0107	0.3748	0.0505	0.4253	0.1054	0.0483	0.1537	0.0000	1,040.3585	1,040.3585	0.0365	0.0000	1,041.2717
Unmitigated	0.1113	3.3351	0.7910	0.0107	0.3748	0.0505	0.4253	0.1054	0.0483	0.1537	0.0000	1,040.3585	1,040.3585	0.0365	0.0000	1,041.2717

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	21.99	21.99	21.99	320,149	320,149
Unrefrigerated Warehouse-No Rail	48.01	3.97	15.87	540,569	540,569
Total	70.00	25.96	37.86	860,718	860,718

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082
Other Non-Asphalt Surfaces	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082
Parking Lot	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.363600	0.000000	0.090900	0.545500	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.166700	0.000000	0.206900	0.626400	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	497.9039	497.9039	0.0206	4.2500e-003	499.6852
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	497.9039	497.9039	0.0206	4.2500e-003	499.6852
NaturalGas Mitigated	0.0101	0.0916	0.0769	5.5000e-004		6.9600e-003	6.9600e-003		6.9600e-003	6.9600e-003	0.0000	99.7104	99.7104	1.9100e-003	1.8300e-003	100.3029
NaturalGas Unmitigated	0.0101	0.0916	0.0769	5.5000e-004		6.9600e-003	6.9600e-003		6.9600e-003	6.9600e-003	0.0000	99.7104	99.7104	1.9100e-003	1.8300e-003	100.3029

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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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.67937e+006	9.0600e-003	0.0823	0.0692	4.9000e-004		6.2600e-003	6.2600e-003		6.2600e-003	6.2600e-003	0.0000	89.6177	89.6177	1.7200e-003	1.6400e-003	90.1502
Unrefrigerated Warehouse-No Rail	189130	1.0200e-003	9.2700e-003	7.7900e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	10.0927	10.0927	1.9000e-004	1.9000e-004	10.1527
Total		0.0101	0.0916	0.0769	5.5000e-004		6.9600e-003	6.9600e-003		6.9600e-003	6.9600e-003	0.0000	99.7104	99.7104	1.9100e-003	1.8300e-003	100.3029

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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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.67937e+006	9.0600e-003	0.0823	0.0692	4.9000e-004		6.2600e-003	6.2600e-003		6.2600e-003	6.2600e-003	0.0000	89.6177	89.6177	1.7200e-003	1.6400e-003	90.1502
Unrefrigerated Warehouse-No Rail	189130	1.0200e-003	9.2700e-003	7.7900e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	10.0927	10.0927	1.9000e-004	1.9000e-004	10.1527
Total		0.0101	0.0916	0.0769	5.5000e-004		6.9600e-003	6.9600e-003		6.9600e-003	6.9600e-003	0.0000	99.7104	99.7104	1.9100e-003	1.8300e-003	100.3029

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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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	24500	7.8062	3.2000e-004	7.0000e-005	7.8342
Refrigerated Warehouse-No Rail	1.28689e+006	410.0307	0.0169	3.5000e-003	411.4976
Unrefrigerated Warehouse-No Rail	251292	80.0671	3.3100e-003	6.8000e-004	80.3535
Total		497.9039	0.0206	4.2500e-003	499.6852

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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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	24500	7.8062	3.2000e-004	7.0000e-005	7.8342
Refrigerated Warehouse-No Rail	1.28689e+006	410.0307	0.0169	3.5000e-003	411.4976
Unrefrigerated Warehouse-No Rail	251292	80.0671	3.3100e-003	6.8000e-004	80.3535
Total		497.9039	0.0206	4.2500e-003	499.6852

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145
Unmitigated	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145

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	0.0805					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6152					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6000e-004	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145
Total	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145

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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	0.0805					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6152					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6000e-004	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145
Total	0.6964	6.0000e-005	7.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0136	0.0136	4.0000e-005	0.0000	0.0145

7.0 Water Detail

7.1 Mitigation Measures Water

Kaiser Commerce Center (Operations - Trucks) - San Bernardino-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	170.7372	1.2523	0.0308	211.2135
Unmitigated	170.7372	1.2523	0.0308	211.2135

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
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	7.64513 / 0	34.1433	0.2504	6.1500e-003	42.2376
Unrefrigerated Warehouse-No Rail	30.5851 / 0	136.5939	1.0019	0.0246	168.9759
Total		170.7372	1.2523	0.0308	211.2135

Kaiser Commerce Center (Operations - Trucks) - San Bernardino-South Coast County, Annual

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
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	7.64513 / 0	34.1433	0.2504	6.1500e-003	42.2376
Unrefrigerated Warehouse-No Rail	30.5851 / 0	136.5939	1.0019	0.0246	168.9759
Total		170.7372	1.2523	0.0308	211.2135

8.0 Waste Detail

8.1 Mitigation Measures Waste

Kaiser Commerce Center (Operations - Trucks) - San Bernardino-South Coast County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	31.5448	1.8642	0.0000	78.1509
Unmitigated	31.5448	1.8642	0.0000	78.1509

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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	31.08	6.3090	0.3729	0.0000	15.6302
Unrefrigerated Warehouse-No Rail	124.32	25.2358	1.4914	0.0000	62.5207
Total		31.5448	1.8643	0.0000	78.1509

Kaiser Commerce Center (Operations - Trucks) - San Bernardino-South Coast County, Annual

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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	31.08	6.3090	0.3729	0.0000	15.6302
Unrefrigerated Warehouse-No Rail	124.32	25.2358	1.4914	0.0000	62.5207
Total		31.5448	1.8643	0.0000	78.1509

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	1	4.00	365	200	0.37	Diesel

Kaiser Commerce Center (Operations - Trucks) - San Bernardino-South Coast County, Annual

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	0.0268	0.3261	0.1424	5.8000e-004		0.0107	0.0107		9.8400e-003	9.8400e-003	0.0000	50.8328	50.8328	0.0164	0.0000	51.2438
Total	0.0268	0.3261	0.1424	5.8000e-004		0.0107	0.0107		9.8400e-003	9.8400e-003	0.0000	50.8328	50.8328	0.0164	0.0000	51.2438

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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APPENDIX 3.4:
EMFAC2017 MODEL OUTPUTS

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
SAN BERNARDINO	2020	HHDT	Aggregated	Aggregated	GAS	9,540,219,418	711,746,2002	0.178815994	178.8159935	623091.3747	711.7462002	4045261.326	6.49	HHDT
SAN BERNARDINO	2020	HHDT	Aggregated	Aggregated	DSL	27707.12036	3999354.561	601.5883003	601588.3003		3999354.561			
SAN BERNARDINO	2020	HHDT	Aggregated	Aggregated	NG	1108.036142	45195.01953	21.32425833	21324.25833		45195.01953			
SAN BERNARDINO	2020	LDA	Aggregated	Aggregated	GAS	871457.6496	36867296.74	1229.303074	1229303.074	1235322.639	36867296.74	37545472.62	30.39	LDA
SAN BERNARDINO	2020	LDA	Aggregated	Aggregated	DSL	6569.597379	293430.672	6.019564726	6019.564726		293430.672			
SAN BERNARDINO	2020	LDA	Aggregated	Aggregated	ELEC	9660.070995	384745.2099	0	0		384745.2099			
SAN BERNARDINO	2020	LDT1	Aggregated	Aggregated	GAS	92778.61175	3339879.477	131.0422853	131042.2853	131085.7812	3339879.477	3349258.253	25.55	LDT1
SAN BERNARDINO	2020	LDT1	Aggregated	Aggregated	DSL	59.61067403	1067.91221	0.043495937	43.49593704		1067.91221			
SAN BERNARDINO	2020	LDT1	Aggregated	Aggregated	ELEC	204.2399557	8310.863867	0	0		8310.863867			
SAN BERNARDINO	2020	LDT2	Aggregated	Aggregated	GAS	286800.9851	10910046.75	466.6784648	466678.4648	468281.8159	10910046.75	11014360.25	23.52	LDT2
SAN BERNARDINO	2020	LDT2	Aggregated	Aggregated	DSL	1267.752516	57700.70142	1.603351115	1603.351115		57700.70142			
SAN BERNARDINO	2020	LDT2	Aggregated	Aggregated	ELEC	1367.651304	46612.79519	0	0		46612.79519			
SAN BERNARDINO	2020	LHDT1	Aggregated	Aggregated	GAS	26438.20102	893860.1833	86.61018856	86610.18856	127522.7471	893860.1833	1728668.594	13.56	LHDT1
SAN BERNARDINO	2020	LHDT1	Aggregated	Aggregated	DSL	22885.62044	834808.4108	40.91255854	40912.55854		834808.4108			
SAN BERNARDINO	2020	LHDT2	Aggregated	Aggregated	GAS	4171.439711	142454.4099	15.79597873	15795.97873	32314.89367	142454.4099	451898.1758	13.98	LHDT2
SAN BERNARDINO	2020	LHDT2	Aggregated	Aggregated	DSL	8374.806617	309443.7659	16.51891494	16518.91494		309443.7659			
SAN BERNARDINO	2020	MCY	Aggregated	Aggregated	GAS	43702.35448	445693.0502	11.59750515	11597.50515	11597.50515	445693.0502	445693.0502	38.43	MCY
SAN BERNARDINO	2020	MDV	Aggregated	Aggregated	GAS	243585.7886	8975648.035	471.967901	471967.901	478670.8154	8975648.035	9170318.018	19.16	MDV
SAN BERNARDINO	2020	MDV	Aggregated	Aggregated	DSL	4030.525416	178779.223	6.702914482	6702.914482		178779.223			
SAN BERNARDINO	2020	MDV	Aggregated	Aggregated	ELEC	456.0662121	15890.75974	0	0		15890.75974			
SAN BERNARDINO	2020	MH	Aggregated	Aggregated	GAS	7424.315281	62182.65972	12.56050064	12560.50064	14670.7255	62182.65972	84493.83155	5.76	MH
SAN BERNARDINO	2020	MH	Aggregated	Aggregated	DSL	2509.935164	22311.17182	2.110224855	2110.224855		22311.17182			
SAN BERNARDINO	2020	MHDT	Aggregated	Aggregated	GAS	2348.721448	145180.228	29.07707881	29077.07881	140207.751	145180.228	1302098.146	9.29	MHDT
SAN BERNARDINO	2020	MHDT	Aggregated	Aggregated	DSL	17407.57983	1156917.918	111.1306722	111130.6722		1156917.918			
SAN BERNARDINO	2020	OBUS	Aggregated	Aggregated	GAS	698.0598297	38271.44621	7.739465445	7739.465445	10364.0322	38271.44621	59854.76971	5.78	OBUS
SAN BERNARDINO	2020	OBUS	Aggregated	Aggregated	DSL	295.2661824	21583.3235	2.624566757	2624.566757		21583.3235			
SAN BERNARDINO	2020	SBUS	Aggregated	Aggregated	GAS	251.1326413	11986.2633	1.32495077	1324.95077	7061.781438	11986.2633	55331.84227	7.84	SBUS
SAN BERNARDINO	2020	SBUS	Aggregated	Aggregated	DSL	1359.536592	43345.57897	5.736830668	5736.830668		43345.57897			
SAN BERNARDINO	2020	UBUS	Aggregated	Aggregated	GAS	156.1386231	17642.37632	2.573988026	2573.988026	12112.38225	17642.37632	55980.66044	4.62	UBUS
SAN BERNARDINO	2020	UBUS	Aggregated	Aggregated	DSL	5.036807361	438.6321227	0.059645567	59.64556654		438.6321227			
SAN BERNARDINO	2020	UBUS	Aggregated	Aggregated	ELEC	0.085938117	1.919228349	0	0		1.919228349			
SAN BERNARDINO	2020	UBUS	Aggregated	Aggregated	NG	282.3350119	37897.73277	9.478748655	9478.748655		37897.73277			

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