



Appendix K

Rancho La Habra

ENERGY ANALYSIS

CITY OF LA HABRA

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LIST OF ABBREVIATED TERMS

(1)	Reference
AQIA	Air Quality Impact Analysis
ARB	Air Resources Board
CalEEMod	California Emissions Estimator Model
CARB	California Air Resources Board
CEC	California Energy Commission
CEUS	California Commercial End Use Survey
CPUC	California Public Utilities Commission
EIR	Environmental Impact Report
EMFAC	Emissions Factor
EVs	Electric Vehicles
FERC	Federal Energy Regulatory Commission
GPA	General Plan Amendment
GWh	Gigawatt Hour
HHD	Heavy-Heavy Duty
ISO	Independent Service Operator
ISTEA	Intermodal Surface Transportation Efficiency Act
ITE	Institute of Transportation Engineers
LHD	Light-Heavy Duty
MHD	Medium-Heavy Duty
MPG	Miles Per Gallon
MPO	Metropolitan Planning Organization
Project	Rancho La Habra
SF	Square Feet
SoCalGas	Southern California Gas
SP	Specific Plan
TEA-21	Transportation Equity Act for the 21 st Century
VTM	Vehicle Miles Traveled

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EXECUTIVE SUMMARY

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

ES.1 SUMMARY OF FINDINGS

The results of this *Rancho La Habra 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>

ES.2 PROJECT DESIGN FEATURES

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

- Regional vehicle miles traveled (VMT) and associated vehicular-source emissions are reduced by the following Project design features/attributes:
 - Pedestrian connections shall be provided to surrounding areas consistent with the City's General Plan. Providing a pedestrian access network to link areas of the Project site encourages people to walk instead of drive. The Project would provide a pedestrian access network that internally links all uses and connects to all existing or planned external streets and pedestrian facilities contiguous with the project site. The Project would minimize barriers to pedestrian access and interconnectivity.
- Building shells and building components, such as windows, roof systems, electrical and lighting systems, and heating, ventilating, and air conditioning systems, will be designed to meet Title 24 building energy efficiency standards. It is conservatively assumed that 2019 Title 24 Standards will apply at the time of Project construction. 2019 Title 24 code requirements are intended to achieve 30% less energy use for non-residential buildings and 53% less energy use for residential buildings.

- To reduce water demands and associated energy use, subsequent development proposals within the Project site would be required to implement a Water Conservation Strategy and demonstrate a minimum 20% reduction in indoor and outdoor water usage when compared to baseline water demand (total expected water demand without implementation of the Water Conservation Strategy)¹.
- The Project is required to comply with SCAQMD Rule 445, which prohibits the use of wood burning stoves and fireplaces in new development
- Specified use of Energy Star appliances.
- Installation of water-efficient plumbing fixtures.
- Installation of tankless water heater systems.

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

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1 INTRODUCTION

This report presents the results of the energy analysis prepared by Urban Crossroads, Inc., for the proposed Rancho La Habra (referred to as Project). The purpose of this report is to ensure that energy implication is considered by the City of La Habra, 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 Rancho La Habra Project is generally located south of Imperial Highway and east of Beach Boulevard, behind Westridge Plaza and in front of the Westridge Residential, in the City of La Habra, as shown on Exhibit 1-A. The Project site is currently occupied by the Westridge Golf Club, an existing privately-owned 18-hole golf course that includes 22,500 square feet (sf) of building floor area that encompasses a golf shop, club house, restaurant/events center.

1.2 PROJECT DESCRIPTION

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

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

1.2.1 PROJECT SITE PLAN SCENARIOS

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

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

EXHIBIT 1-A: LOCATION MAP

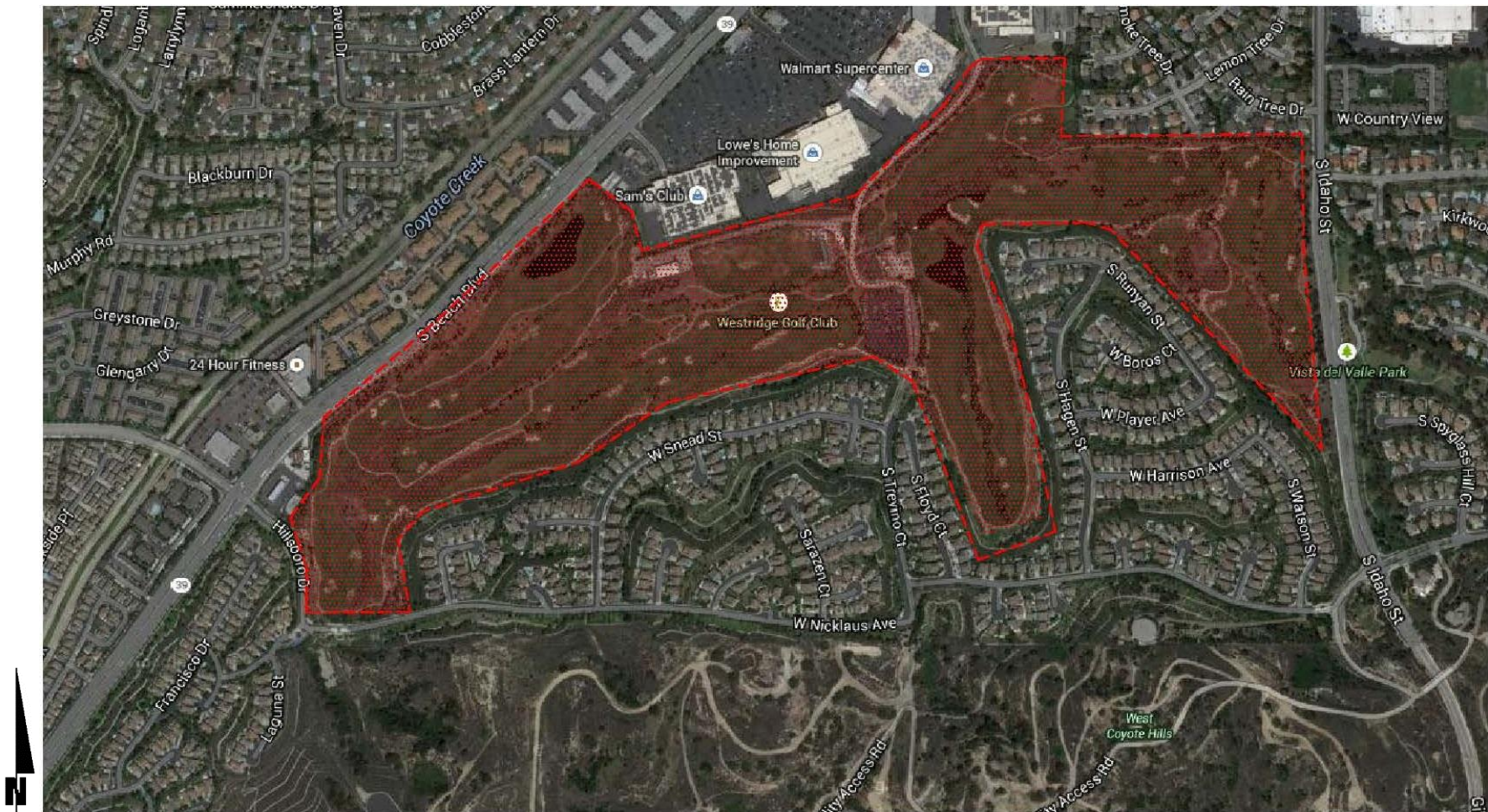
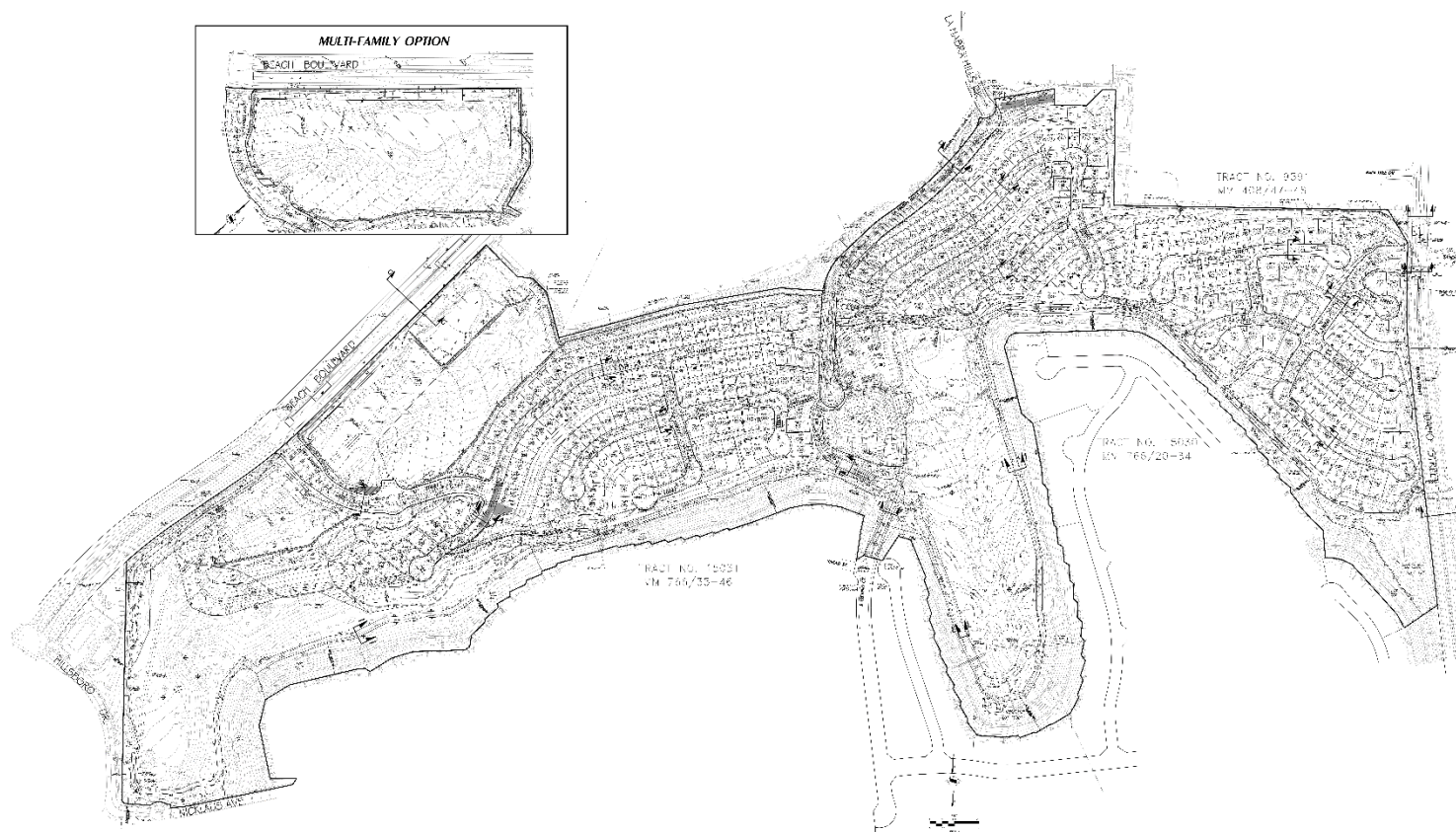


EXHIBIT 1-B: SITE PLAN



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2 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 annual energy use is from 2016 and included:

- Approximately 7,830 trillion British Thermal Unit (BTU) of energy was consumed; (2);
- Approximately 2,115 billion cubic feet of natural gas (2); and
- Approximately 15.8 billion gallons of transportation fuel (for the year 2017) (3)

The most recent data provided by the United States Energy Information Administration (EIA) is from 2016 and illustrates energy use in California by demand sector as follows:

- Approximately 39.8 percent transportation;
- Approximately 23.7 percent industrial;
- Approximately 17.7 percent residential; and
- Approximately 18.9 percent commercial (4)

In 2017, total system electric generation for California was 292,039 gigawatt-hours (GWh). California's massive electricity in-state generation system generated approximately 206,336 GWh which accounted for approximately 71% of the electricity it uses; the rest was imported from the Pacific Northwest (14%) and the U.S. Southwest (16%) (5). Natural gas is the main source for electricity generation at 50% of the total in-state electric generation system power as shown in Table 2-1.

TABLE 2-1: TOTAL ELECTRICITY SYSTEM POWER (CALIFORNIA 2017)

Fuel Type	California In-State Generation (GWh)	Percent of California In-State Generation	Northwest Imports (GWh)	Southwest Imports (GWh)	California Power Mix (GWh)	Percent California Power Mix
Coal	302	0.15%	409	11,364	12,075	4.13%
Large Hydro	36,920	17.89%	4531	1,536	42,987	14.72%
Natural Gas	89,564	43.40%	46	8,705	98,315	33.67%
Nuclear	17,925	8.69%	0	8,594	26,519	9.08%
Oil	33	0.02%	0	0	33	0.01%
Other	409	0.20%	0	0	409	0.14%
Renewables	61,183	29.65%	12,502	10,999	84,684	29.00%
Biomass	5,827	2.82%	1,015	32	6,874	2.35%
Geothermal	11,745	5.69%	23	937	12,705	4.35%
Small Hydro	6,413	3.11%	1449	5	7,867	2.70%
Solar	24,331	11.79%	0	5,465	29,796	10.20%
Wind	12,867	6.24%	10,015	4,560	27,442	9.40%
Unspecified Sources of Power	N/A	N/A	22,385	4,632	27,017	9.25%
Total	206,336	100%	39,873	45,830	292,039	100%

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

A 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 fourth-largest producer of crude oil among the 50 states in 2017, after Texas, North Dakota, and Alaska, and, as of January 2018, third in oil refining capacity after Texas and Louisiana.
- 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 2016.
- California's total energy consumption is second-highest in the nation, but, in 2016, the state's per capita energy consumption ranked 48th, due in part to its mild climate and its energy efficiency programs.
- In 2017, California ranked second in the nation in conventional hydroelectric generation and first as a producer of electricity from solar, geothermal, and biomass resources.
- In 2017, solar PV and solar thermal installations provided about 16% of California’s net electricity generation (6).

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 both the Proposed Project and the Residential Option Project as consisting of residential, commercial,

and recreational uses, 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 residential, commercial, and recreational uses planned for either the Proposed Project or the Residential Option 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 Southern 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 (2013 IEPR) after a collaborative process with other energy agencies, utilities, and air districts (7). 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 ARB 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 (8).

Electricity is provided to the Project by Southern California Edison (SCE). SCE provides electric power to more than 14 million persons in 15 counties and in 180 incorporated cities, within a service area encompassing approximately 50,000 square miles. 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 (9).

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 (10).

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 2017. As indicated in Table 2-2, the 2017 SCE Power Mix has renewable energy at 32% of the overall energy resources. Geothermal resources are at 8%, wind power is at 10%, large hydroelectric sources are at 8%, solar energy is at 13%, and coal is at 0%. Biomass and waste sources have decreased to 0% from 1% in 2016. Natural gas is at 20% having decreased from 19% in 2016 (11).

TABLE 2-2: SCE 2017 POWER CONTENT MIX

Energy Resources	2017 SCE Power Mix
Eligible Renewable	32%
Biomass & waste	0%
Geothermal	8%
Small Hydroelectric	1%
Solar	13%
Wind	10%
Coal	0%
Large Hydroelectric	8%
Natural Gas	20%
Nuclear	6%
Other	0%
Unspecified Sources of power*	34%
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 CalEEMod 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 California Public Utilities Commission (PUC) 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.” (12)

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 (13), and those vehicles (as noted previously) consume an estimated 19 billion gallons of fuel each year². 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 (13). While gasoline consumption has been declining since 2008 it is still by far the dominant fuel. Petroleum comprises about 92 percent of all transportation energy use, excluding fuel consumed for aviation and most marine vessels (14). Nearly 19 billion 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 (15), or the equivalent of 155 million gallons of gasoline.

² Fuel consumptions estimated utilizing information from EMFAC2017.

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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 PUC 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 California Energy Commission 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 (16). *Electricity would be provided to the Project by SCE. SCE's Clean Power and Electrification Pathway (CPEP) white paper 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. The Project 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 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 and is therefore applicable to the Project.*

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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* (17), 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 2016.3.2 outputs for the *Rancho La Habra Air Quality Impact Analysis* (Urban Crossroads, Inc., 2019) (AQIA) (18) 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 EXISTING PROJECT SITE ENERGY USAGE

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

The estimated energy demands are summarized on Tables 4-1 and 4-2 for the existing use. Detailed operation model outputs are presented in Appendix 3.4. The existing development energy demand was subtracted from the Project energy demand to determine the new energy use from the proposed Project.

4.2.1 TRANSPORTATION ENERGY DEMANDS

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

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the AQIA, the existing use would generate an estimated 1,332,274 annual VMT along area roadways for all LDAs (18). As generated by EMFAC2014, an aggregated fuel economy of LDAs ranging from model year 1974 to model year 2019 are estimated to have a fuel efficiency of 28.55 mpg. Table 4-1 provides the range of annual fuel consumption resulting from existing

use-generated LDAs. Based on Table 4-1, it is estimated that 46,670 gallons of fuel is consumed from existing use generated LDA trips.

TABLE 4-1: EXISTING USE-GENERATED LDA VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION

Annual Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
1,332,274	28.55	46,670

4.2.2 FACILITY ENERGY DEMANDS

Existing building operations and site maintenance activities would result in the consumption of natural gas and electricity. Natural gas is supplied to the existing use by SoCalGas; electricity would be supplied by SCE.

The energy usage associated with electricity and natural gas use were calculated using CalEEMod defaults. CalEEMod uses the California Commercial End Use Survey (CEUS) database to develop energy intensity values for non-residential buildings (19). Some land use categories (such as a golf course) have not been included in the CEUS and therefore are not calculated in CalEEMod for natural gas usage. Additionally, no information on the existing use's natural gas demand is readily available. As such, the natural gas demand for the golf course is considered negligible and is not quantified in CalEEMod. Notwithstanding, electricity is calculated by CalEEMod and is reported as follows:

TABLE 4-2: EXISTING USE ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY

Electricity Demand	kWh/year
Golf Course	35,035
TOTAL PROPOSED PROJECT ELECTRICITY DEMAND	35,035

4.4 SCENARIO 1 – PROPOSED PROJECT ENERGY CALCULATIONS

CONSTRUCTION ENERGY DEMANDS

4.4.1 CONSTRUCTION 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) (20), the typical power cost per 1,000 square feet of construction per month is estimated to be \$2.32. For the Rancho La Habra development, the Proposed Project plans to develop 2,953,514 sf of commercial and residential uses. It is anticipated that the Proposed Project would be developed in one phase. As per information provided in the AQIA, the Proposed Project will be under construction within a 72-month period. Based on Table 4-3, the total power cost of the on-site electricity usage during the construction of the Proposed Project is estimated to be approximately \$493,354.98. Additionally, as of July 26, 2019, SCE's general service rate schedule (GS-1) for commercial land

uses is \$0.08 per kWh of electricity and \$0.09 per kWh of electricity for residential land uses (21) (22). As shown on Table 4-4, the total electricity usage from on-site construction related activities is estimated to be approximately 5,819,629.05 kWh.

TABLE 4-3: PROPOSED PROJECT CONSTRUCTION POWER COST

Land Use	Power Cost (per 1,000 SF of construction)	Total Building Size (1,000 SF)	Construction Duration (months)	Project Construction Power Cost
Specialty Grocery Store	\$2.32	12.000	72	\$2,004.48
High-Turnover (Sit- Down) Restaurant	\$2.32	8.000	72	\$1,336.32
Community Center	\$2.32	22.500	72	\$3,758.40
City Park	\$2.32	1,833.876	72	\$306,330.65
Condo/Townhomes	\$2.32	275.500	72	\$46,019.52
Single Family Residential	\$2.32	801.638	72	\$133,905.61
TOTAL PROPOSED PROJECT CONSTRUCTION POWER COST				\$493,354.98

TABLE 4-4: PROPOSED PROJECT CONSTRUCTION ELECTRICITY USAGE

Land Use	Cost per kWh	Project Construction Electricity Usage (kWh)
Specialty Grocery Store	\$0.08	25,056
High-Turnover (Sit- Down) Restaurant	\$0.08	16,704
Community Center	\$0.08	46,980
City Park	\$0.08	3,829,133
Condo/Townhomes	\$0.09	486,413
Single Family Residential	\$0.09	1,415,343
TOTAL PROPOSED PROJECT CONSTRUCTION ELECTRICITY USAGE (kWh)		5,819,629.05

¹Assumes the Proposed Project will be under the GS-1 General Service Rate and D Domestic Service Rate under SCE.

4.4.2 CONSTRUCTION EQUIPMENT FUEL ESTIMATES

Fuel consumed by construction equipment would be the primary energy resource expended over the course of Proposed Project construction. Construction activity timeline estimates, construction equipment schedules, equipment power ratings, load factors, and associated fuel consumption estimates are presented in Table 4-5.

TABLE 4-5: 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 (13 days)	Excavators	158	1	8	0.38	480	338
	Rubber Tired Dozers	247	1	8	0.40	790	555
	Tractors/Loaders/Backhoes	97	2	8	0.37	574	404
Crushing (50 days)	Crushing/Proc. Equipment	200	1	8	0.78	1,248	3,373
Site Preparation (70 days)	Tractors/Loaders/Backhoes	97	2	8	0.37	574	2,173
Mass Grading (150 days)	Rubber Tired Dozers	247	1	8	0.40	790	6,409
	Scrapers	585	6	8	0.48	13,478	109,284
	Tractors/Loaders/Backhoes	97	1	8	0.37	287	2,328
Precise Grading (104 days)	Tractors/Loaders/Backhoes	97	2	8	0.37	574	3,228
Building Construction (300 days)	Cranes	231	1	8	0.29	536	36,790
	Forklifts	89	3	8	0.20	427	29,327
	Generator Sets	84	1	8	0.74	497	34,138
	Tractors/Loaders/Backhoes	97	3	8	0.37	861	59,131
	Welders	46	1	8	0.45	166	11,368
Paving (20 days)	Pavers	130	2	8	0.42	874	59,971
	Paving Equipment	132	2	8	0.36	760	52,195
	Rollers	80	2	8	0.38	486	33,391
Architectural Coating (20 days)	Air Compressors	78	1	8	0.48	300	20,562
PROPOSED PROJECT CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)							464,964

Eight-hour daily use of all equipment is assumed. The aggregate fuel consumption rate for all equipment is estimated at 18.5 hp-hr-gal., obtained from California Air Resources Board (CARB) 2018 Emissions Factors Tables and cited fuel consumption rate factors presented in Table D-24 of the Moyer guidelines (23). 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 City and region.

As presented in Table 4-5, Proposed Project construction activities would consume an estimated 464,964 gallons of diesel fuel. 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.

4.4.3 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 VMT, the construction worker trips would generate an estimated 9,259,971 VMT (18). Data regarding Proposed Project related construction worker trips were based on CalEEMod 2016.3.2 model 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 the CARB. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, and VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the ARB to project changes in future emissions from on-road mobile sources (24). EMFAC2017 was run for the LDA vehicle class within the California sub-area for a 2026 calendar year. Data from EMFAC2017 is shown in Appendix 3.5.

As generated by EMFAC2017, an aggregated fuel economy of LDAs ranging from model year 1974 to model year 2026 are estimated to have a fuel efficiency of 37.13 miles per gallon (mpg). Table 4-6 provides an estimated annual fuel consumption resulting from the Proposed Project generated by LDAs related to construction worker trips. Based on Table 4-6, it is estimated that 249,420 gallons of fuel will be consumed related to construction worker trips during full construction of the Proposed 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 4-6: 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 (13 days)	10	14.7	1,911	37.13	51
Crushing (50 days)	10	14.7	1,911	37.13	51
Site Preparation (70 days)	3	14.7	2,205	37.13	59
Mass Grading (150 days)	5	14.7	5,145	37.13	139
Precise Grading (104 days)	5	14.7	7,644	37.13	206
Building Construction (1,270 days)	400	14.7	7,467,600	37.13	201,142
Paving (1,270 days)	15	14.7	280,035	37.13	7,543
Architectural Coating (1,270 days)	80	14.7	1,493,520	37.13	40,228
TOTAL CONSTRUCTION WORKER FUEL CONSUMPTION					249,420

4.4.4 CONSTRUCTION VENDOR/HAULING FUEL ESTIMATES

With respect to estimated VMT, the construction vendor/hauling trips would generate an estimated 1,305,549 VMT along area roadways (18). It is assumed that 50% of all vendor trips are from medium-heavy duty trucks (MHD) and 50% are from heavy-heavy duty trucks (HHD). It is assumed that 100% of all hauling trips are from HHD. These assumptions are consistent with the 2016.3.2 CalEEMod defaults utilized within the within the AQIA (18). Vehicle fuel efficiencies for MHD and HHD trucks were estimated using information generated within EMFAC2017. For purposes of this analysis, EMFAC2017 was run for the MHD and HHD vehicle class within the California sub-area for a 2026 calendar year. Data from EMFAC2017 is shown in Appendix 3.5. As generated by EMFAC2017, an aggregated fuel economy of MHD trucks ranging from model year 1974 to model year 2026 are estimated to have a fuel efficiency of 10.10 mpg. Additionally, HHD trucks are estimated to have a fuel efficiency of 7.04 mpg. Based on Table 4-7, it is estimated that 62,055 gallons of fuel will be consumed related to construction vendor trips (medium duty trucks) during full construction of the Proposed Project. Table 4-8 shows the estimated fuel economy of HHD trucks accessing the Project site. Based on Table 4-8, fuel consumption from construction vendor and hauling trips (heavy duty trucks) will total approximately 96,436 gallons. The total fuel consumption from construction vendor and hauling trips (medium and heavy-duty trucks) is 158,491 gallons. Proposed 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.

TABLE 4-7: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (MHD TRUCKS)

Construction Activity	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Vendor					
Building Construction (1,270 days)	71.5	6.9	626,555	10.10	62,055
VENDOR MEDIUM-DUTY TRUCK TOTAL					62,055

TABLE 4-8: CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION ESTIMATES (HHD TRUCKS)

Construction Activity	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Vendor					
Building Construction (1,270 days)	71.5	6.9	626,555	7.04	88,988
VENDOR HEAVY-DUTY TRUCK TOTAL					88,988
Hauling					
Demolition (13 days)	747	20	14,940	7.04	2,122
Mass Grading (150 days)	1875	20	37,500	7.04	5,326
HAULING HEAVY-DUTY TRUCK TOTAL					96,436
VENDOR & HAULING MEDIUM-DUTY AND HEAVY-DUTY TRUCK TOTAL					158,491

4.4.5 CONSTRUCTION ENERGY EFFICIENCY/CONSERVATION MEASURES

The equipment used for Proposed Project construction would conform to CARB regulations and CA 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 Proposed Project would therefore not result in inefficient wasteful, or unnecessary consumption of fuel.

The Proposed Project would utilize construction contractors which practice compliance with applicable CARB regulation regarding retrofitting, 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, California Code of Regulations 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 City 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.

OPERATIONAL ENERGY DEMANDS

Energy consumption in support of or related to Proposed Project operations would include transportation energy demands (energy consumed by employee and patron vehicles accessing the Project site) and facilities energy demands (energy consumed by building operations and site maintenance activities).

4.4.6 TRANSPORTATION ENERGY DEMANDS

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

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the AQIA, the Proposed Project would generate an estimated 17,464,807 annual VMT along area roadways for all LDAs with full build-out of the Proposed Project (18). As generated by EMFAC2017, an aggregated fuel economy of LDAs ranging from model year 1974 to model year 2026 are estimated to have a fuel efficiency of 37.13 mpg. Table 4-9 provides an estimated range of annual fuel consumption resulting from Proposed Project generated LDAs. It should be

noted that the existing development fuel consumption (previously presented in Section 4.3) were subtracted from the Project's transportation energy demands to determine the net increase in energy demand from the proposed Project. Based on Table 4-9, it is estimated that 423,749 gallons of fuel will be consumed from Proposed Project generated LDA trips.

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

	Annual Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
Proposed Project	17,464,807	37.13	470,419
Existing Use	1,332,274	28.55	46,670
NET (PROPOSED - EXISTING)			423,749

4.4.7 FACILITY ENERGY DEMANDS

Proposed 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 Proposed Project by SoCalGas; electricity would be supplied by SCE. Annual natural gas and electricity demands of the Proposed Project are summarized in Table 4-10. It should be noted that the existing facility energy demands (previously presented in Section 4.3) were subtracted from the Project's facility energy demands to determine the net increase in energy demand from the proposed Project.

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 (25). Non-building energy use, or "plug-in" energy use can be further subdivided by specific end-use (refrigeration, cooking, appliances, etc.). The energy usage associated with electricity and natural gas use were calculated using CalEEMod defaults.

TABLE 4-10: PROPOSED PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY (1 OF 2)

Natural Gas Demand	kBTU/year
Condo/Townhomes	2,558,620
Single Family Residential	7,147,960
Specialty Grocery Store	246,600
High-Turnover (Sit Down) Restaurant	2,074,560
Community Center	470,250
City Park	0
Existing Use	0 ^A
NET TOTAL PROPOSED PROJECT NATURAL GAS DEMAND	12,497,990

^A The natural gas demand for the existing use is considered negligible and has been reported as "0".

TABLE 4-10: PROPOSED PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY (2 OF 2)

Electricity Demand	kWh/year
Condo/Townhomes	720,435
Single Family Residential	2,221,140
Specialty Grocery Store	463,440
High-Turnover (Sit Down) Restaurant	291,840
Community Center	190,125
City Park	0
<i>Existing Use</i>	<i>35,035</i>
NET TOTAL PROPOSED PROJECT ELECTRICITY DEMAND	3,851,945

4.4.8 OPERATIONAL ENERGY EFFICIENCY/CONSERVATION MEASURES

Energy efficiency/energy conservation attributes of the Proposed 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 Proposed 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

Proposed Project annual fuel consumption estimates presented previously in Tables 4-9 and represent likely potential maximums that would occur for the Proposed 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 SCENARIO 2 – RESIDENTIAL OPTION PROJECT ENERGY CALCULATIONS

CONSTRUCTION ENERGY DEMANDS

4.5.1 CONSTRUCTION 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) (20), the typical power cost per 1,000 square feet of construction per month is estimated to be \$2.32. For the Rancho La Habra development, the Residential Option Project plans to develop 3,026,614 sf of commercial

and residential uses. For purposes of analysis, the same construction assumptions applied to the Proposed Project have been applied to the Residential Option Project. As such, it is anticipated that the Project would be developed in one phase and will be under construction within a 72-month period. Based on Table 4-11, the total power cost of the on-site electricity usage during the construction of the proposed Project is estimated to be approximately \$505,565.60. Additionally, as of July 26, 2019, SCE's general service rate schedule (GS-1) for commercial land uses is \$0.08 per kWh of electricity and \$0.09 per kWh of electricity for residential land uses (21) (22). As shown on Table 4-12, the total electricity usage from on-site Project construction related activities is estimated to be approximately 5,942,243.05 kWh.

TABLE 4-11: RESIDENTIAL OPTION PROJECT CONSTRUCTION POWER COST

Land Use	Power Cost (per 1,000 SF of construction)	Total Building Size (1,000 SF)	Construction Duration (months)	Project Construction Power Cost
Community Center	\$2.32	22.500	72	\$3,758.40
City Park	\$2.32	1,833.876	72	\$306,330.65
Condo/Townhomes	\$2.32	368.600	72	\$61,570.94
Single Family Residential	\$2.32	801.638	72	\$133,905.61
TOTAL RESIDENTIAL OPTION PROJECT CONSTRUCTION POWER COST				\$505,565.60

TABLE 4-12: RESIDENTIAL OPTION PROJECT CONSTRUCTION ELECTRICITY USAGE

Land Use	Cost per kWh	Project Construction Electricity Usage (kWh)
Community Center	\$0.08	46,980
City Park	\$0.08	3,829,133
Condo/Townhomes	\$0.09	650,787
Single Family Residential	\$0.09	1,415,343
TOTAL RESIDENTIAL OPTION PROJECT CONSTRUCTION ELECTRICITY USAGE (kWh)		5,942,243.05

¹Assumes the Residential Option Project will be under the GS-1 General Service Rate and D Domestic Service Rate under SCE.

4.5.2 CONSTRUCTION EQUIPMENT FUEL ESTIMATES

Fuel consumed by construction equipment would be the primary energy resource expended over the course of Residential Option Project construction. It should be noted that for purposes of analysis, the same construction equipment utilized for the Proposed Project will be used to construct the Residential Option Project. Construction activity timeline estimates, construction equipment schedules, equipment power ratings, load factors, and associated fuel consumption estimates are presented in Table 4-13.

TABLE 4-13: 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 (13 days)	Excavators	158	1	8	0.38	480	338
	Rubber Tired Dozers	247	1	8	0.40	790	555
	Tractors/Loaders/Backhoes	97	2	8	0.37	574	404
Crushing (50 days)	Crushing/Proc. Equipment	200	1	8	0.78	1,248	3,373
Site Preparation (70 days)	Tractors/Loaders/Backhoes	97	2	8	0.37	574	2,173
Mass Grading (150 days)	Rubber Tired Dozers	247	1	8	0.40	790	6,409
	Scrapers	585	6	8	0.48	13,478	109,284
	Tractors/Loaders/Backhoes	97	1	8	0.37	287	2,328
Precise Grading (104 days)	Tractors/Loaders/Backhoes	97	2	8	0.37	574	3,228
Building Construction (300 days)	Cranes	231	1	8	0.29	536	36,790
	Forklifts	89	3	8	0.20	427	29,327
	Generator Sets	84	1	8	0.74	497	34,138
	Tractors/Loaders/Backhoes	97	3	8	0.37	861	59,131
	Welders	46	1	8	0.45	166	11,368
Paving (20 days)	Pavers	130	2	8	0.42	874	59,971
	Paving Equipment	132	2	8	0.36	760	52,195
	Rollers	80	2	8	0.38	486	33,391
Architectural Coating (20 days)	Air Compressors	78	1	8	0.48	300	20,562
RESIDENTIAL OPTION PROJECT CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)							464,964

Eight-hour daily use of all equipment is assumed. The aggregate fuel consumption rate for all equipment is estimated at 18.5 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 (23). 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 City and region.

As presented in Table 4-13, Residential Option Project construction activities would consume an estimated 464,964 gallons of diesel fuel. 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.

4.5.3 CONSTRUCTION WORKER FUEL ESTIMATES

It is assumed that all construction worker trips are from LDA along area roadways. With respect to estimated VMT, the construction worker trips would generate an estimated 9,259,971 VMT (18). Data regarding Residential Option Project related construction worker trips were based on CalEEMod 2016.3.2 model defaults utilized within the AQIA.

Vehicle fuel efficiencies for LDA were estimated using information generated within the 2017 version of the EMFAC model developed by the CARB. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, and VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the ARB to project changes in future emissions from on-road mobile sources (24). EMFAC2017 was run for the LDA vehicle class within the California sub-area for a 2026 calendar year. Data from EMFAC2017 is shown in Appendix 3.5. As generated by EMFAC2017, an aggregated fuel economy of LDAs ranging from model year 1974 to model year 2026 are estimated to have a fuel efficiency of 37.13 miles per gallon (mpg). Table 4-14 provides an estimated annual fuel consumption resulting from the Residential Option Project generated by LDAs related to construction worker trips. Based on Table 4-14, it is estimated that 249,420 gallons of fuel will be consumed related to construction worker trips during full construction of the Residential Option 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 4-14: 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 (13 days)	10	14.7	1,911	37.13	51
Crushing (50 days)	10	14.7	1,911	37.13	51
Site Preparation (70 days)	3	14.7	2,205	37.13	59
Mass Grading (150 days)	5	14.7	5,145	37.13	139
Precise Grading (104 days)	5	14.7	7,644	37.13	206
Building Construction (1,270 days)	400	14.7	7,467,600	37.13	201,142
Paving (1,270 days)	15	14.7	280,035	37.13	7,543
Architectural Coating (1,270 days)	80	14.7	1,493,520	37.13	40,228
CONSTRUCTION WORKER FUEL CONSUMPTION					249,420

4.5.4 CONSTRUCTION VENDOR/HAULING FUEL ESTIMATES

With respect to estimated VMT, the construction vendor/hauling trips would generate an estimated 1,305,549 VMT along area roadways (18). It is assumed that 50% of all vendor trips are from medium-heavy duty trucks (MHD) and 50% are from heavy-heavy duty trucks (HHD). It is assumed that 100% of all hauling trips are from HHD. These assumptions are consistent with the 2016.3.2 CalEEMod defaults utilized within the within the AQIA (18). Vehicle fuel efficiencies for MHD and HHD trucks were estimated using information generated within EMFAC2017. For purposes of this analysis, EMFAC2017 was run for the MHD and HHD vehicle class within the California sub-area for a 2026 calendar year. Data from EMFAC2017 is shown in Appendix 3.5.

As generated by EMFAC2017, an aggregated fuel economy of MHD trucks ranging from model year 1974 to model year 2026 are estimated to have a fuel efficiency of 10.10 mpg. Additionally, HHD trucks are estimated to have a fuel efficiency of 7.04 mpg. Based on Table 4-15, it is estimated that 62,055 gallons of fuel will be consumed related to construction vendor trips (medium duty trucks) during full construction of the Residential Option Project. Table 4-16 shows the estimated fuel economy of HHD trucks accessing the Project site. Based on Table 4-16, fuel consumption from construction vendor and hauling trips (heavy duty trucks) will total approximately 96,436 gallons. The total fuel consumption from construction vendor and hauling trips (medium and heavy-duty trucks) is 158,491 gallons. 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.

TABLE 4-15: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (MHD TRUCKS)

Construction Activity	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Vendor					
Building Construction (1,270 days)	71.5	6.9	626,555	10.10	62,055
VENDOR MEDIUM-DUTY TRUCK TOTAL					62,055

TABLE 4-16: CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION ESTIMATES (HHD TRUCKS)

Construction Activity	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Vendor					
Building Construction (1,270 days)	71.5	6.9	626,555	7.04	88,988
VENDOR HEAVY-DUTY TRUCK TOTAL					88,988
Hauling					
Demolition (13 days)	747	20	14,940	7.04	2,122
Mass Grading (150 days)	1875	20	37,500	7.04	5,326
HAULING HEAVY-DUTY TRUCK TOTAL					96,436
VENDOR & HAULING MEDIUM-DUTY & HEAVY-DUTY TRUCK TOTAL					158,491

4.5.5 CONSTRUCTION ENERGY EFFICIENCY/CONSERVATION MEASURES

The equipment used for Residential Option Project construction would conform to CARB regulations and CA 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 Residential Option Project would therefore not result in inefficient wasteful, or unnecessary consumption of fuel.

The Residential Option Project would utilize construction contractors which practice compliance with applicable CARB regulation regarding retrofitting, 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 BACMs. More specifically, California Code of Regulations 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 City 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.

OPERATIONAL ENERGY DEMANDS

Energy consumption in support of or related to the Residential Option Project operations would include transportation energy demands (energy consumed by employee and patron vehicles accessing the Project site) and facilities energy demands (energy consumed by building operations and site maintenance activities).

4.5.6 TRANSPORTATION ENERGY DEMANDS

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

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the AQIA, the Residential Option Project would generate an estimated 15,412,820 annual VMT along area roadways for all LDAs with full build-out (18). As generated by EMFAC2017, an aggregated fuel economy of LDAs ranging from model year 1974 to model year 2026 are estimated to have a fuel efficiency of 37.13 mpg. Table 4-17 provides an estimated range of

annual fuel consumption resulting from Residential Option Project generated LDAs. It should be noted that the existing development fuel consumption (previously presented in Section 4.3) were subtracted from the Project's transportation energy demands to determine the net increase in energy demand from the proposed Project. Based on Table 4-17, it is estimated that 368,478 gallons of fuel will be consumed from Residential Option Project generated LDA trips.

TABLE 4-17: RESIDENTIAL OPTION PROJECT-GENERATED LDA VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION

	Annual Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
Residential Option	15,412,820	37.13	415,148
Existing Use	1,332,274	28.55	46,670
NET (PROPOSED - EXISTING)			368,478

4.5.7 FACILITY ENERGY DEMANDS

Residential Option Project building operations and site maintenance activities would result in the consumption of natural gas and electricity. Natural gas would be supplied by SoCalGas; electricity would be supplied by SCE. Annual natural gas and electricity demands for the Residential Option Project are summarized in Table 4-18. It should be noted that the existing facility energy demands (previously presented in Section 4.3) were subtracted from the Project's facility energy demands to determine the net increase in energy demand from the proposed Project.

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 (25). Non-building energy use, or "plug-in" energy use can be further subdivided by specific end-use (refrigeration, cooking, appliances, etc.). The energy usage associated with electricity and natural gas use were calculated using CalEEMod defaults.

TABLE 4-18: RESIDENTIAL OPTION PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY (1 OF 2)

Natural Gas Demand	kBTU/year
Condo/Townhomes	3,423,250
Single Family Residential	7,147,960
Community Center	470,250
City Park	0
Existing Use	0 ^A
NET TOTAL RESIDENTIAL OPTION NATURAL GAS DEMAND	11,041,460

^A The natural gas demand for the existing use is considered negligible and has been reported as "0".

TABLE 4-18: RESIDENTIAL OPTION PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY (2 OF 2)

Electricity Demand	kWh/year
Condo/Townhomes	963,893
Single Family Residential	2,221,140
Community Center	190,125
City Park	0
<i>Existing Use</i>	<i>35,035</i>
NET TOTAL RESIDENTIAL OPTION ELECTRICITY DEMAND	3,340,123

4.5.8 OPERATIONAL ENERGY EFFICIENCY/CONSERVATION MEASURES

Energy efficiency/energy conservation attributes of the Residential Option 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 Residential Option 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

Residential Option Project annual fuel consumption estimates presented previously in Tables 4-15 and represent likely potential maximums that would occur for the Residential Option 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.

4.6 SUMMARY

4.6.1 CONSTRUCTION ENERGY DEMANDS

SCENARIO 1 – PROPOSED PROJECT

The estimated power cost of on-site electricity usage during the construction of the Proposed Project is assumed to be around \$493,354.98. Additionally, based on the assumed power cost, it is estimated that the total electricity usage during construction, after full Proposed Project build-out, is calculated to be around 5,819,629.05 kWh.

Construction equipment used by the Proposed Project would result in single event consumption of approximately 464,964 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 Proposed

Project's construction process that are unusual or energy-intensive, and Proposed 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 City 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 249,420 gallons of fuel. Additionally, fuel consumption from construction vendor trips (medium and heavy-duty trucks) will total approximately 158,491 gallons. Diesel fuel would be supplied by City 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 California Energy Commission has shown that fuel efficiencies are getting better within on and off-road vehicle engines due to more stringent government requirements (26). As supported by the preceding discussions, Proposed Project construction energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

SCENARIO 2 – RESIDENTIAL OPTION PROJECT

The estimated power cost of on-site electricity usage during the construction of the Residential Option Project is assumed to be around \$505,565,60. Additionally, based on the assumed power cost, it is estimated that the total electricity usage during construction, after full Residential Option Project build-out, is calculated to be around 5,942,243.05 kWh.

Construction equipment used by the Residential Option Project would be similar to the equipment used for construction of the Proposed Project. As such, construction of the Residential Option Project would result in single event consumption of approximately 464,964 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 Residential Option Project's construction process that are unusual or energy-intensive, and Residential Option 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 City building officials, and/or in response to citizen complaints.

Construction worker trips for full construction of the Residential Project would result in the estimated fuel consumption of 249,420 gallons of fuel. Additionally, fuel consumption from

construction vendor trips (medium and heavy-duty trucks) will total approximately 158,491 gallons. Diesel fuel would be supplied by City 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 California Energy Commission has shown that fuel efficiencies are getting better within on and off-road vehicle engines due to more stringent government requirements (26). As supported by the preceding discussions, Residential Option Project construction energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

4.6.2 OPERATIONAL ENERGY DEMANDS

TRANSPORTATION ENERGY DEMANDS

SCENARIO 1 – PROPOSED PROJECT

Annual vehicular trips and related VMT generated by Proposed Project operations of the Proposed Project would result in an estimated 423,749 gallons of fuel consumption per year for LDAs.

Fuel would be provided by current and future commercial vendors. Trip generation and VMT generated by the Proposed Project are consistent with other 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 to alternative energy sources (e.g., electricity, natural gas, biofuels, hydrogen cells) would likely decrease future gasoline fuel demands per VMT. Location of the Proposed Project proximate to regional and local roadway systems tends to reduce VMT within the region, acting to reduce regional vehicle energy demands. The Proposed 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 Proposed 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, Proposed Project transportation energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

SCENARIO 2 – RESIDENTIAL OPTION PROJECT

Annual vehicular trips and related VMT generated by Residential Option Project operations of the Residential Option Project would result in an estimated 3687,478 gallons of fuel consumption per year for LDAs.

Fuel would be provided by current and future commercial vendors. Trip generation and VMT generated by the Residential Option Project are consistent with other uses of similar scale and configuration, as reflected respectively in the 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 to alternative energy sources (e.g., electricity, natural gas, biofuels, hydrogen cells) would likely decrease future gasoline fuel demands per VMT. Location of the Residential Option Project proximate to regional and local roadway systems tends to reduce VMT within the region, acting to reduce regional vehicle energy demands. The Residential Option 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 Residential Option 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, Residential Option Project transportation energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

FACILITY ENERGY DEMANDS

SCENARIO 1 – PROPOSED PROJECT

Proposed Project facility operational energy demands are estimated at: 12,497,990 kBTU/year of natural gas; and 3,851,945 kWh/year of electricity. Natural gas would be supplied to the Proposed Project by SoCalGas; electricity would be supplied by SCE. The Proposed Project's uses will meet and exceed energy efficiency standards, as fully described in the Greenhouse Gas Emissions Analysis which is incorporated herein by reference.

Additionally, the Proposed Project is will implement the project design features (as summarized in the Executive Summary). Implementation of these project design features combined with the required Title 24 standards will ensure that the Proposed Project energy demands would not be considered inefficient, wasteful, or otherwise unnecessary.

SCENARIO 2 – RESIDENTIAL OPTION PROJECT

Residential Option Project facility operational energy demands are estimated at: 11,041,460 kBTU/year of natural gas; and 3,340,123 kWh/year of electricity. Natural gas would be supplied to the Residential Option Project by SoCalGas; electricity would be supplied by SCE. The Residential Option Project's uses will meet and exceed energy efficiency standards, as fully described in the Greenhouse Gas Emissions Analysis which is incorporated herein by reference.

Additionally, the Residential Option Project is will implement the project design features (as summarized in the Executive Summary). Implementation of these project design features combined with the required Title 24 standards will ensure that the Residential Option Project energy demands would not be considered inefficient, wasteful, or otherwise unnecessary.

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5 CONCLUSION

Impact Energy-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, the Proposed Project or the Residential Option Project operations would not result in the inefficient, wasteful or unnecessary consumption of energy. Further, the energy demands of either the Proposed Project and Residential Option Project can be accommodated within the context of available resources and energy delivery systems. As such, neither the Proposed Project nor the Residential Option Project scenario would cause or result in the need for additional energy producing or transmission facilities. Additionally, neither scenario proposed by the Project would engage in wasteful or inefficient uses of energy and aims to achieve energy conservation goals within the State of California.

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

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.

For new development such as the Project, compliance with California Building Standards Code Title 24 energy efficiency requirements (CALGreen), combined with the project design features listed in Section ES.2 of this energy analysis, are considered demonstrable evidence of efficient use of energy. 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.

The La Habra Climate Action Plan (CAP) includes energy efficiency requirements and renewable energy requirements for new development. Specifically, the Project will comply with CAP measures R2-E1, R2-E2, R2-E5, and R2-E6 as discussed and summarized in the *Rancho La Habra Greenhouse Gas Analysis* report (27).

Moreover, energy consumed by either the Proposed Project or the Residential Option Project operations are calculated to be comparable to, or less than, energy consumed by other residential, commercial, and recreational 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 CERTIFICATION

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

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EDUCATION

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

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

PROFESSIONAL AFFILIATIONS

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

PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June, 2013
Planned Communities and Urban Infill – Urban Land Institute • June, 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April, 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August, 2007
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APPENDIX 3.1:

CALEEMOD ANNUAL CONSTRUCTION EMISSIONS MODEL OUTPUTS

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

Rancho La Habra Project Development (Construction - Mitigated)

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

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

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

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

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

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

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

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

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

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

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

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

Off-road Equipment -

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

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

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

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Construction Run Only.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Woodstoves - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

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

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

[illegible]

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstructionPhase	NumDays	310.00	50.00
tblConstructionPhase	NumDays	120.00	70.00
tblConstructionPhase	NumDays	310.00	150.00
tblConstructionPhase	NumDays	310.00	104.00
tblConstructionPhase	NumDays	3,100.00	1,270.00
tblConstructionPhase	NumDays	220.00	1,270.00
tblConstructionPhase	NumDays	220.00	1,270.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	LightingElect	8.68	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24E	25.23	0.00
tblEnergyUse	NT24NG	5,516.00	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	5,516.00	0.00
tblEnergyUse	NT24NG	10.60	0.00
tblEnergyUse	T24E	172.41	0.00
tblEnergyUse	T24E	1.63	0.00

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

tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	253.73	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24NG	12,129.63	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	20,288.91	0.00
tblEnergyUse	T24NG	9.95	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	123.25	0.00
tblFireplaces	NumberGas	235.45	0.00
tblFireplaces	NumberNoFireplace	14.50	0.00
tblFireplaces	NumberNoFireplace	27.70	0.00
tblFireplaces	NumberWood	7.25	0.00
tblFireplaces	NumberWood	13.85	0.00
tblGrading	MaterialImported	0.00	15,000.00
tblLandUse	LandUseSquareFeet	145,000.00	275,500.00
tblLandUse	LandUseSquareFeet	498,600.00	801,638.00
tblLandUse	LotAcreage	89.94	97.86
tblLandUse	Population	415.00	435.00
tblLandUse	Population	792.00	831.00
tblOffRoadEquipment	HorsePower	367.00	585.00

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tblOffRoadEquipment	HorsePower	85.00	200.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	417.5
tblSolidWaste	SolidWasteGenerationRate	3.62	0.00
tblSolidWaste	SolidWasteGenerationRate	66.70	0.00
tblSolidWaste	SolidWasteGenerationRate	128.25	0.00
tblSolidWaste	SolidWasteGenerationRate	95.20	0.00

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tblSolidWaste	SolidWasteGenerationRate	340.71	0.00
tblSolidWaste	SolidWasteGenerationRate	67.68	0.00
tblTripsAndVMT	VendorTripNumber	353.00	143.00
tblTripsAndVMT	WorkerTripNumber	991.00	400.00
tblTripsAndVMT	WorkerTripNumber	198.00	80.00
tblVehicleEF	HHD	0.39	0.03
tblVehicleEF	HHD	0.17	0.15
tblVehicleEF	HHD	0.05	7.1096e-007
tblVehicleEF	HHD	1.40	6.05
tblVehicleEF	HHD	1.30	0.68
tblVehicleEF	HHD	4.46	9.9764e-003
tblVehicleEF	HHD	3,712.33	976.34
tblVehicleEF	HHD	1,567.60	1,325.78
tblVehicleEF	HHD	14.46	0.08
tblVehicleEF	HHD	12.24	5.17
tblVehicleEF	HHD	1.64	2.36
tblVehicleEF	HHD	8.2750e-003	2.6957e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	9.1330e-007
tblVehicleEF	HHD	7.9170e-003	2.5791e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6670e-003	8.7591e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	8.3975e-007
tblVehicleEF	HHD	1.1800e-004	2.5844e-006

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

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tblVehicleEF	HHD	6.9760e-003	2.3520e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	9.1330e-007
tblVehicleEF	HHD	6.6740e-003	2.2503e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6670e-003	8.7591e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	8.3975e-007
tblVehicleEF	HHD	1.6800e-004	3.7475e-006
tblVehicleEF	HHD	4.8570e-003	1.1087e-004
tblVehicleEF	HHD	0.32	0.42
tblVehicleEF	HHD	1.2600e-004	2.7063e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.2300e-004	4.7071e-004
tblVehicleEF	HHD	0.08	3.5798e-006
tblVehicleEF	HHD	0.03	8.7940e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.1400e-004	7.4302e-007
tblVehicleEF	HHD	1.6800e-004	3.7475e-006
tblVehicleEF	HHD	4.8570e-003	1.1087e-004
tblVehicleEF	HHD	0.39	0.49
tblVehicleEF	HHD	1.2600e-004	2.7063e-006
tblVehicleEF	HHD	0.26	0.18
tblVehicleEF	HHD	4.2300e-004	4.7071e-004
tblVehicleEF	HHD	0.09	3.9195e-006

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tblVehicleEF	HHD	0.42	0.02
tblVehicleEF	HHD	0.17	8.7798e-004
tblVehicleEF	HHD	0.06	7.1763e-007
tblVehicleEF	HHD	1.93	5.97
tblVehicleEF	HHD	1.30	0.21
tblVehicleEF	HHD	4.50	0.01
tblVehicleEF	HHD	3,407.76	956.71
tblVehicleEF	HHD	1,567.60	1,219.26
tblVehicleEF	HHD	14.46	0.08
tblVehicleEF	HHD	11.69	5.28
tblVehicleEF	HHD	1.61	2.27
tblVehicleEF	HHD	0.01	2.8857e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	9.1330e-007
tblVehicleEF	HHD	9.6330e-003	2.7609e-003
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	8.6670e-003	8.4573e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	8.3975e-007
tblVehicleEF	HHD	1.1400e-004	2.6240e-006
tblVehicleEF	HHD	5.0300e-003	1.1860e-004
tblVehicleEF	HHD	0.36	0.37
tblVehicleEF	HHD	9.1000e-005	1.9265e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.8300e-004	5.2090e-004

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tblVehicleEF	HHD	0.08	3.7490e-006
tblVehicleEF	HHD	0.03	9.0385e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.1800e-004	7.5177e-007
tblVehicleEF	HHD	1.1400e-004	2.6240e-006
tblVehicleEF	HHD	5.0300e-003	1.1860e-004
tblVehicleEF	HHD	0.44	0.42
tblVehicleEF	HHD	9.1000e-005	1.9265e-006
tblVehicleEF	HHD	0.26	0.02
tblVehicleEF	HHD	4.8300e-004	5.2090e-004
tblVehicleEF	HHD	0.09	4.1047e-006
tblVehicleEF	LDA	2.7580e-003	1.4539e-003
tblVehicleEF	LDA	2.8090e-003	0.03
tblVehicleEF	LDA	0.43	0.49
tblVehicleEF	LDA	0.72	1.76
tblVehicleEF	LDA	212.92	225.86
tblVehicleEF	LDA	47.75	46.23
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.7100e-003	1.2970e-003
tblVehicleEF	LDA	2.1900e-003	1.5539e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5740e-003	1.1939e-003
tblVehicleEF	LDA	2.0130e-003	1.4288e-003
tblVehicleEF	LDA	0.03	0.04

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

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tblVehicleEF	LDA	2.0130e-003	1.4288e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	7.3280e-003	5.3745e-003
tblVehicleEF	LDA	0.03	0.16
tblVehicleEF	LDA	0.03	0.13
tblVehicleEF	LDA	2.2210e-003	2.3252e-003
tblVehicleEF	LDA	4.8800e-004	4.5329e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	7.8080e-003
tblVehicleEF	LDA	0.03	0.16
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	2.7050e-003	1.4238e-003
tblVehicleEF	LDA	2.8660e-003	0.04
tblVehicleEF	LDA	0.41	0.47
tblVehicleEF	LDA	0.74	1.81
tblVehicleEF	LDA	209.63	222.46
tblVehicleEF	LDA	47.75	46.33
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.7100e-003	1.2970e-003
tblVehicleEF	LDA	2.1900e-003	1.5539e-003
tblVehicleEF	LDA	0.02	0.02

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tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5740e-003	1.1939e-003
tblVehicleEF	LDA	2.0130e-003	1.4288e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	6.8070e-003	4.9944e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.0980e-003	2.2006e-003
tblVehicleEF	LDA	4.9000e-004	4.5846e-004
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	9.8910e-003	7.2532e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDT1	5.9740e-003	3.2242e-003
tblVehicleEF	LDT1	7.9960e-003	0.05
tblVehicleEF	LDT1	0.78	0.78
tblVehicleEF	LDT1	1.69	1.92
tblVehicleEF	LDT1	272.89	271.82
tblVehicleEF	LDT1	61.96	56.50
tblVehicleEF	LDT1	0.07	0.05
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1560e-003	1.6205e-003

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tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	1.9830e-003	1.4905e-003
tblVehicleEF	LDT1	2.5640e-003	1.7819e-003
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.13	0.48
tblVehicleEF	LDT1	0.11	0.22
tblVehicleEF	LDT1	2.7370e-003	2.6899e-003
tblVehicleEF	LDT1	6.4900e-004	5.5911e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.48
tblVehicleEF	LDT1	0.12	0.24
tblVehicleEF	LDT1	6.2860e-003	3.4156e-003
tblVehicleEF	LDT1	7.1800e-003	0.04
tblVehicleEF	LDT1	0.85	0.85
tblVehicleEF	LDT1	1.46	1.66
tblVehicleEF	LDT1	283.94	281.33
tblVehicleEF	LDT1	61.96	56.01
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.04	0.04

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tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1560e-003	1.6205e-003
tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	1.9830e-003	1.4905e-003
tblVehicleEF	LDT1	2.5640e-003	1.7819e-003
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.12	0.45
tblVehicleEF	LDT1	0.10	0.20
tblVehicleEF	LDT1	2.8480e-003	2.7839e-003
tblVehicleEF	LDT1	6.4500e-004	5.5423e-004
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.12	0.45
tblVehicleEF	LDT1	0.11	0.22
tblVehicleEF	LDT1	5.8680e-003	3.1636e-003
tblVehicleEF	LDT1	8.1630e-003	0.05
tblVehicleEF	LDT1	0.76	0.76
tblVehicleEF	LDT1	1.74	1.98
tblVehicleEF	LDT1	268.81	268.31
tblVehicleEF	LDT1	61.96	56.61

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

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

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tblVehicleEF	LDT2	0.63	0.72
tblVehicleEF	LDT2	0.84	1.96
tblVehicleEF	LDT2	317.98	294.00
tblVehicleEF	LDT2	68.50	59.06
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8320e-003	1.3688e-003
tblVehicleEF	LDT2	2.3500e-003	1.5746e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4478e-003
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.01	9.9749e-003
tblVehicleEF	LDT2	0.05	0.33
tblVehicleEF	LDT2	0.05	0.19
tblVehicleEF	LDT2	3.1840e-003	2.9084e-003
tblVehicleEF	LDT2	6.9900e-004	5.8443e-004
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.05	0.33
tblVehicleEF	LDT2	0.05	0.21

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tblVehicleEF	LDT2	3.8920e-003	2.4323e-003
tblVehicleEF	LDT2	4.0310e-003	0.05
tblVehicleEF	LDT2	0.56	0.64
tblVehicleEF	LDT2	0.99	2.34
tblVehicleEF	LDT2	300.86	281.66
tblVehicleEF	LDT2	68.50	59.75
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8320e-003	1.3688e-003
tblVehicleEF	LDT2	2.3500e-003	1.5746e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4478e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	9.6640e-003	9.2897e-003
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	3.0120e-003	2.7863e-003
tblVehicleEF	LDT2	7.0100e-004	5.9127e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01

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

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

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

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tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.48	0.34
tblVehicleEF	LHD1	1.82	0.90
tblVehicleEF	LHD1	9.05	8.70
tblVehicleEF	LHD1	569.17	608.54
tblVehicleEF	LHD1	28.18	10.78
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.78	0.45
tblVehicleEF	LHD1	8.7400e-004	8.8595e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8780e-003
tblVehicleEF	LHD1	8.7310e-003	5.8755e-003
tblVehicleEF	LHD1	6.9400e-004	2.0728e-004
tblVehicleEF	LHD1	8.3600e-004	8.4762e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5920e-003	2.4695e-003
tblVehicleEF	LHD1	8.3350e-003	5.5985e-003
tblVehicleEF	LHD1	6.3800e-004	1.9059e-004
tblVehicleEF	LHD1	2.2730e-003	1.7163e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4980e-003	1.1477e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.27	0.40
tblVehicleEF	LHD1	0.18	0.05
tblVehicleEF	LHD1	9.0000e-005	8.4342e-005
tblVehicleEF	LHD1	5.5660e-003	5.9307e-003

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

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tblVehicleEF	LHD2	7.2730e-003	9.0361e-003
tblVehicleEF	LHD2	3.4900e-004	1.0985e-004
tblVehicleEF	LHD2	7.8600e-004	1.0733e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.7600e-004	7.5924e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.21
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2702e-004
tblVehicleEF	LHD2	5.7380e-003	5.9622e-003
tblVehicleEF	LHD2	2.6400e-004	8.2343e-005
tblVehicleEF	LHD2	7.8600e-004	1.0733e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.7600e-004	7.5924e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.21
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.1600e-003	3.4188e-003
tblVehicleEF	LHD2	2.5710e-003	2.5214e-003
tblVehicleEF	LHD2	4.9820e-003	7.4668e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	0.96	0.57
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89

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tblVehicleEF	LHD2	24.66	8.28
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.36	0.49
tblVehicleEF	LHD2	1.1000e-003	1.3293e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4584e-003
tblVehicleEF	LHD2	3.7900e-004	1.1948e-004
tblVehicleEF	LHD2	1.0520e-003	1.2718e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6850e-003	2.6627e-003
tblVehicleEF	LHD2	7.2730e-003	9.0361e-003
tblVehicleEF	LHD2	3.4900e-004	1.0985e-004
tblVehicleEF	LHD2	1.1030e-003	1.5037e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7500e-004	1.0231e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2702e-004
tblVehicleEF	LHD2	5.7380e-003	5.9622e-003
tblVehicleEF	LHD2	2.6300e-004	8.1932e-005
tblVehicleEF	LHD2	1.1030e-003	1.5037e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7500e-004	1.0231e-003

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tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	3.1600e-003	3.4105e-003
tblVehicleEF	LHD2	2.5450e-003	2.4983e-003
tblVehicleEF	LHD2	5.1530e-003	7.7580e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	1.01	0.60
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89
tblVehicleEF	LHD2	24.66	8.33
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.38	0.51
tblVehicleEF	LHD2	1.1000e-003	1.3293e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4584e-003
tblVehicleEF	LHD2	3.7900e-004	1.1948e-004
tblVehicleEF	LHD2	1.0520e-003	1.2718e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6850e-003	2.6627e-003
tblVehicleEF	LHD2	7.2730e-003	9.0361e-003
tblVehicleEF	LHD2	3.4900e-004	1.0985e-004
tblVehicleEF	LHD2	7.7000e-004	1.0625e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02

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

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

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

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

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

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tblVehicleEF	MDV	92.03	71.80
tblVehicleEF	MDV	0.07	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8480e-003	1.4199e-003
tblVehicleEF	MDV	2.2760e-003	1.5902e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7020e-003	1.3092e-003
tblVehicleEF	MDV	2.0930e-003	1.4622e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.10	0.23
tblVehicleEF	MDV	4.3620e-003	3.5872e-003
tblVehicleEF	MDV	9.4400e-004	7.1049e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.11	0.25
tblVehicleEF	MDV	6.7380e-003	2.9054e-003
tblVehicleEF	MDV	8.4750e-003	0.06
tblVehicleEF	MDV	0.80	0.69

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tblVehicleEF	MDV	1.68	2.52
tblVehicleEF	MDV	413.15	350.23
tblVehicleEF	MDV	92.03	72.55
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8480e-003	1.4199e-003
tblVehicleEF	MDV	2.2760e-003	1.5902e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7020e-003	1.3092e-003
tblVehicleEF	MDV	2.0930e-003	1.4622e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.14	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.10	0.43
tblVehicleEF	MDV	0.11	0.26
tblVehicleEF	MDV	4.1330e-003	3.4616e-003
tblVehicleEF	MDV	9.4900e-004	7.1797e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.14	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.10	0.43
tblVehicleEF	MDV	0.13	0.29
tblVehicleEF	MH	0.01	3.0182e-003

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tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.98	0.26
tblVehicleEF	MH	4.09	0.00
tblVehicleEF	MH	1,088.87	926.29
tblVehicleEF	MH	56.38	0.00
tblVehicleEF	MH	1.02	3.30
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.08
tblVehicleEF	MH	8.7000e-004	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2370e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	8.0000e-004	0.00
tblVehicleEF	MH	0.66	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.24	0.00
tblVehicleEF	MH	0.01	8.7567e-003
tblVehicleEF	MH	6.3500e-004	0.00
tblVehicleEF	MH	0.66	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.01	0.00

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tblVehicleEF	MH	0.26	0.00
tblVehicleEF	MH	0.01	3.0182e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.01	0.26
tblVehicleEF	MH	3.88	0.00
tblVehicleEF	MH	1,088.87	926.29
tblVehicleEF	MH	56.38	0.00
tblVehicleEF	MH	0.95	3.12
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.08
tblVehicleEF	MH	8.7000e-004	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2370e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	8.0000e-004	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.23	0.00
tblVehicleEF	MH	0.01	8.7567e-003
tblVehicleEF	MH	6.3100e-004	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.41	0.00

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tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.25	0.00
tblVehicleEF	MH	0.01	3.0182e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.98	0.26
tblVehicleEF	MH	4.12	0.00
tblVehicleEF	MH	1,088.87	926.29
tblVehicleEF	MH	56.38	0.00
tblVehicleEF	MH	1.00	3.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.08
tblVehicleEF	MH	8.7000e-004	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2370e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	8.0000e-004	0.00
tblVehicleEF	MH	0.70	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.24	0.00
tblVehicleEF	MH	0.01	8.7567e-003
tblVehicleEF	MH	6.3500e-004	0.00
tblVehicleEF	MH	0.70	0.00

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tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.27	0.00
tblVehicleEF	MHD	0.02	4.3061e-003
tblVehicleEF	MHD	2.3010e-003	9.7878e-004
tblVehicleEF	MHD	0.04	9.9220e-003
tblVehicleEF	MHD	0.31	0.37
tblVehicleEF	MHD	0.22	0.14
tblVehicleEF	MHD	3.97	1.01
tblVehicleEF	MHD	147.33	51.57
tblVehicleEF	MHD	1,116.08	952.09
tblVehicleEF	MHD	54.11	10.89
tblVehicleEF	MHD	0.38	0.24
tblVehicleEF	MHD	0.66	0.97
tblVehicleEF	MHD	5.7000e-005	1.3672e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8320e-003	6.2526e-003
tblVehicleEF	MHD	6.5400e-004	1.0428e-004
tblVehicleEF	MHD	5.5000e-005	1.3080e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7070e-003	5.9771e-003
tblVehicleEF	MHD	6.0200e-004	9.5883e-005
tblVehicleEF	MHD	8.3800e-004	4.4901e-004

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tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.0600e-004	3.3904e-004
tblVehicleEF	MHD	0.03	9.2412e-003
tblVehicleEF	MHD	0.01	0.10
tblVehicleEF	MHD	0.25	0.05
tblVehicleEF	MHD	1.4160e-003	4.9079e-004
tblVehicleEF	MHD	0.01	9.0982e-003
tblVehicleEF	MHD	6.1100e-004	1.0774e-004
tblVehicleEF	MHD	8.3800e-004	4.4901e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	6.0600e-004	3.3904e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.01	0.10
tblVehicleEF	MHD	0.27	0.05
tblVehicleEF	MHD	0.01	4.0869e-003
tblVehicleEF	MHD	2.3200e-003	9.9519e-004
tblVehicleEF	MHD	0.04	9.5988e-003
tblVehicleEF	MHD	0.23	0.31
tblVehicleEF	MHD	0.22	0.14
tblVehicleEF	MHD	3.79	0.96
tblVehicleEF	MHD	156.06	51.42
tblVehicleEF	MHD	1,116.08	952.09
tblVehicleEF	MHD	54.11	10.81
tblVehicleEF	MHD	0.39	0.23
tblVehicleEF	MHD	0.63	0.92

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tblVehicleEF	MHD	4.8000e-005	1.1758e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8320e-003	6.2526e-003
tblVehicleEF	MHD	6.5400e-004	1.0428e-004
tblVehicleEF	MHD	4.6000e-005	1.1249e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7070e-003	5.9771e-003
tblVehicleEF	MHD	6.0200e-004	9.5883e-005
tblVehicleEF	MHD	1.1800e-003	6.3266e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	8.2200e-004	4.5743e-004
tblVehicleEF	MHD	0.03	9.3047e-003
tblVehicleEF	MHD	0.01	0.09
tblVehicleEF	MHD	0.24	0.05
tblVehicleEF	MHD	1.4990e-003	4.8956e-004
tblVehicleEF	MHD	0.01	9.0982e-003
tblVehicleEF	MHD	6.0700e-004	1.0694e-004
tblVehicleEF	MHD	1.1800e-003	6.3266e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	8.2200e-004	4.5743e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.01	0.09
tblVehicleEF	MHD	0.26	0.05

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tblVehicleEF	MHD	0.02	4.6237e-003
tblVehicleEF	MHD	2.2950e-003	9.7301e-004
tblVehicleEF	MHD	0.04	9.9740e-003
tblVehicleEF	MHD	0.43	0.46
tblVehicleEF	MHD	0.22	0.14
tblVehicleEF	MHD	4.01	1.01
tblVehicleEF	MHD	135.27	51.76
tblVehicleEF	MHD	1,116.08	952.08
tblVehicleEF	MHD	54.11	10.90
tblVehicleEF	MHD	0.36	0.25
tblVehicleEF	MHD	0.65	0.95
tblVehicleEF	MHD	7.0000e-005	1.6315e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8320e-003	6.2526e-003
tblVehicleEF	MHD	6.5400e-004	1.0428e-004
tblVehicleEF	MHD	6.7000e-005	1.5609e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7070e-003	5.9771e-003
tblVehicleEF	MHD	6.0200e-004	9.5883e-005
tblVehicleEF	MHD	8.2900e-004	4.3473e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.0300e-004	3.3394e-004
tblVehicleEF	MHD	0.03	9.2222e-003
tblVehicleEF	MHD	0.02	0.11

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tblVehicleEF	MHD	0.25	0.05
tblVehicleEF	MHD	1.3030e-003	4.9243e-004
tblVehicleEF	MHD	0.01	9.0981e-003
tblVehicleEF	MHD	6.1100e-004	1.0789e-004
tblVehicleEF	MHD	8.2900e-004	4.3473e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	6.0300e-004	3.3394e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.27	0.05
tblVehicleEF	OBUS	0.01	8.6081e-003
tblVehicleEF	OBUS	4.4900e-003	3.4710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.58
tblVehicleEF	OBUS	0.33	0.42
tblVehicleEF	OBUS	4.51	2.12
tblVehicleEF	OBUS	79.00	80.51
tblVehicleEF	OBUS	1,197.99	1,276.22
tblVehicleEF	OBUS	68.49	18.46
tblVehicleEF	OBUS	0.16	0.32
tblVehicleEF	OBUS	0.55	0.95
tblVehicleEF	OBUS	1.5000e-005	1.0732e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.5110e-003	6.5795e-003
tblVehicleEF	OBUS	9.3700e-004	2.0266e-004

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tblVehicleEF	OBUS	1.4000e-005	1.0268e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.3820e-003	6.2779e-003
tblVehicleEF	OBUS	8.6200e-004	1.8634e-004
tblVehicleEF	OBUS	1.3340e-003	1.6535e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.4900e-004	9.1533e-004
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.29	0.10
tblVehicleEF	OBUS	7.6600e-004	7.6663e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6400e-004	1.8266e-004
tblVehicleEF	OBUS	1.3340e-003	1.6535e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	7.4900e-004	9.1533e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	0.01	8.6902e-003
tblVehicleEF	OBUS	4.5620e-003	3.5422e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.58
tblVehicleEF	OBUS	0.34	0.43

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tblVehicleEF	OBUS	4.28	2.01
tblVehicleEF	OBUS	82.70	79.60
tblVehicleEF	OBUS	1,197.99	1,276.23
tblVehicleEF	OBUS	68.49	18.27
tblVehicleEF	OBUS	0.16	0.30
tblVehicleEF	OBUS	0.52	0.89
tblVehicleEF	OBUS	1.2000e-005	9.5363e-005
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.5110e-003	6.5795e-003
tblVehicleEF	OBUS	9.3700e-004	2.0266e-004
tblVehicleEF	OBUS	1.2000e-005	9.1238e-005
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.3820e-003	6.2779e-003
tblVehicleEF	OBUS	8.6200e-004	1.8634e-004
tblVehicleEF	OBUS	1.8370e-003	2.2633e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.0190e-003	1.2350e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.27	0.10
tblVehicleEF	OBUS	8.0100e-004	7.5810e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6000e-004	1.8084e-004
tblVehicleEF	OBUS	1.8370e-003	2.2633e-003

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

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

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

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

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

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

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

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

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

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tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	0.98	0.11
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CC_TTP	64.10	0.00
tblVehicleTrips	CC_TTP	72.50	0.00
tblVehicleTrips	CC_TTP	74.50	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	16.90	0.00
tblVehicleTrips	CW_TTP	8.50	0.00
tblVehicleTrips	CW_TTP	6.50	0.00
tblVehicleTrips	DV_TP	28.00	0.00

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

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

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

2.0 Emissions Summary

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

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1702	1.9385	1.1203	3.2600e-003	0.6627	0.0731	0.7358	0.1136	0.0676	0.1812	0.0000	291.2500	291.2500	0.0737	0.0000	293.0930
2021	0.9444	8.1226	5.5200	0.0154	1.0923	0.3087	1.4010	0.3216	0.2850	0.6066	0.0000	1,375.9035	1,375.9035	0.3460	0.0000	1,384.5535
2022	1.4157	5.6875	6.6792	0.0180	0.8235	0.2082	1.0316	0.2214	0.1949	0.4163	0.0000	1,639.9846	1,639.9846	0.2129	0.0000	1,645.3058
2023	1.3631	4.9449	6.5095	0.0176	0.8235	0.1819	1.0053	0.2214	0.1703	0.3916	0.0000	1,604.8435	1,604.8435	0.2085	0.0000	1,610.0562
2024	1.3403	4.7204	6.4315	0.0175	0.8298	0.1640	0.9938	0.2231	0.1534	0.3765	0.0000	1,592.0044	1,592.0044	0.2081	0.0000	1,597.2057
2025	1.2998	4.4023	6.2832	0.0171	0.8266	0.1431	0.9697	0.2222	0.1339	0.3561	0.0000	1,562.0225	1,562.0225	0.2055	0.0000	1,567.1598
2026	0.7966	2.7003	3.8206	0.0104	0.5099	0.0882	0.5981	0.1371	0.0825	0.2196	0.0000	950.7142	950.7142	0.1261	0.0000	953.8656
Maximum	1.4157	8.1226	6.6792	0.0180	1.0923	0.3087	1.4010	0.3216	0.2850	0.6066	0.0000	1,639.9846	1,639.9846	0.3460	0.0000	1,645.3058

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

2.1 Overall Construction**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0788	0.8520	1.2904	3.2600e-003	0.1912	0.0253	0.2165	0.0345	0.0235	0.0580	0.0000	291.2497	291.2497	0.0737	0.0000	293.0927
2021	0.5901	3.7738	6.1410	0.0154	0.4623	0.1117	0.5740	0.1315	0.1038	0.2353	0.0000	1,375.9023	1,375.9023	0.3460	0.0000	1,384.5522
2022	1.0882	2.3013	7.1946	0.0180	0.8235	0.0190	0.8425	0.2214	0.0185	0.2399	0.0000	1,639.9839	1,639.9839	0.2129	0.0000	1,645.3051
2023	1.0653	1.8711	7.0417	0.0176	0.8235	0.0173	0.8407	0.2214	0.0169	0.2382	0.0000	1,604.8428	1,604.8428	0.2085	0.0000	1,610.0555
2024	1.0619	1.8577	6.9733	0.0175	0.8298	0.0173	0.8471	0.2231	0.0169	0.2399	0.0000	1,592.0037	1,592.0037	0.2081	0.0000	1,597.2049
2025	1.0482	1.8244	6.8410	0.0171	0.8266	0.0171	0.8438	0.2222	0.0167	0.2389	0.0000	1,562.0218	1,562.0218	0.2055	0.0000	1,567.1590
2026	0.6414	1.1102	4.1647	0.0104	0.5099	0.0105	0.5204	0.1371	0.0102	0.1473	0.0000	950.7137	950.7137	0.1261	0.0000	953.8651
Maximum	1.0882	3.7738	7.1946	0.0180	0.8298	0.1117	0.8471	0.2231	0.1038	0.2399	0.0000	1,639.9839	1,639.9839	0.3460	0.0000	1,645.3051

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	23.96	58.20	-9.03	0.00	19.78	81.30	30.44	18.44	81.01	45.15	0.00	0.00	0.00	0.00	0.00	0.00

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

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

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2.2 Overall Operational**Unmitigated Operational**

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

Rancho La Habra Project Development (Construction - Mitigated) - Orange 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	4.5504	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.5504	0.0501	4.3489	2.3000e-004	0.0000	0.0241	0.0241	0.0000	0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	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**

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

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 2,181,204; Residential Outdoor: 727,068; Non-Residential Indoor: 63,750; Non-Residential Outdoor: 21,250; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Crushing	Crushing/Proc. Equipment	1	8.00	200	0.78
Crushing	Excavators	0	8.00	158	0.38
Crushing	Graders	0	8.00	187	0.41
Crushing	Rubber Tired Dozers	0	8.00	247	0.40

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

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	747.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Crushing	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Mass Grading	8	20.00	0.00	1,875.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Precise Grading	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	400.00	143.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	80.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0808	0.0000	0.0808	0.0122	0.0000	0.0122	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.1167	0.0777	1.3000e-004		6.1000e-003	6.1000e-003		5.6100e-003	5.6100e-003	0.0000	11.3747	11.3747	3.6800e-003	0.0000	11.4667
Total	0.0113	0.1167	0.0777	1.3000e-004	0.0808	6.1000e-003	0.0869	0.0122	5.6100e-003	0.0179	0.0000	11.3747	11.3747	3.6800e-003	0.0000	11.4667

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

3.2 Demolition - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8500e-003	0.1060	0.0266	2.8000e-004	6.4000e-003	3.4000e-004	6.7400e-003	1.7600e-003	3.2000e-004	2.0800e-003	0.0000	28.7212	28.7212	3.0300e-003	0.0000	28.7969
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.8000e-004	2.0100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6176	0.6176	1.0000e-005	0.0000	0.6180
Total	3.1000e-003	0.1062	0.0286	2.9000e-004	7.1100e-003	3.4000e-004	7.4600e-003	1.9500e-003	3.2000e-004	2.2700e-003	0.0000	29.3388	29.3388	3.0400e-003	0.0000	29.4148

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0210	0.0000	0.0210	3.1800e-003	0.0000	3.1800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5900e-003	6.8700e-003	0.0808	1.3000e-004		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	11.3747	11.3747	3.6800e-003	0.0000	11.4667
Total	1.5900e-003	6.8700e-003	0.0808	1.3000e-004	0.0210	2.1000e-004	0.0212	3.1800e-003	2.1000e-004	3.3900e-003	0.0000	11.3747	11.3747	3.6800e-003	0.0000	11.4667

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

3.2 Demolition - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8500e-003	0.1060	0.0266	2.8000e-004	6.4000e-003	3.4000e-004	6.7400e-003	1.7600e-003	3.2000e-004	2.0800e-003	0.0000	28.7212	28.7212	3.0300e-003	0.0000	28.7969
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.8000e-004	2.0100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6176	0.6176	1.0000e-005	0.0000	0.6180
Total	3.1000e-003	0.1062	0.0286	2.9000e-004	7.1100e-003	3.4000e-004	7.4600e-003	1.9500e-003	3.2000e-004	2.2700e-003	0.0000	29.3388	29.3388	3.0400e-003	0.0000	29.4148

3.3 Crushing - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1385	0.0774	4.1000e-004		4.4700e-003	4.4700e-003		4.4700e-003	4.4700e-003	0.0000	35.4619	35.4619	1.6200e-003	0.0000	35.5024
Total	0.0199	0.1385	0.0774	4.1000e-004	0.0000	4.4700e-003	4.4700e-003	0.0000	4.4700e-003	4.4700e-003	0.0000	35.4619	35.4619	1.6200e-003	0.0000	35.5024

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3.3 Crushing - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.0000e-004	2.3200e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7126	0.7126	2.0000e-005	0.0000	0.7130
Total	2.9000e-004	2.0000e-004	2.3200e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7126	0.7126	2.0000e-005	0.0000	0.7130

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1300e-003	0.0179	0.1513	4.1000e-004		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	35.4618	35.4618	1.6200e-003	0.0000	35.5024
Total	4.1300e-003	0.0179	0.1513	4.1000e-004	0.0000	5.5000e-004	5.5000e-004	0.0000	5.5000e-004	5.5000e-004	0.0000	35.4618	35.4618	1.6200e-003	0.0000	35.5024

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3.3 Crushing - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.0000e-004	2.3200e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7126	0.7126	2.0000e-005	0.0000	0.7130
Total	2.9000e-004	2.0000e-004	2.3200e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7126	0.7126	2.0000e-005	0.0000	0.7130

3.4 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1474	0.1596	2.2000e-004		9.3200e-003	9.3200e-003		8.5700e-003	8.5700e-003	0.0000	19.0997	19.0997	6.1800e-003	0.0000	19.2541
Total	0.0147	0.1474	0.1596	2.2000e-004	0.0000	9.3200e-003	9.3200e-003	0.0000	8.5700e-003	8.5700e-003	0.0000	19.0997	19.0997	6.1800e-003	0.0000	19.2541

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3.4 Site Preparation - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	4.8000e-004	5.4200e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6628	1.6628	4.0000e-005	0.0000	1.6637
Total	6.8000e-004	4.8000e-004	5.4200e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6628	1.6628	4.0000e-005	0.0000	1.6637

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6600e-003	0.0115	0.1639	2.2000e-004		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	19.0997	19.0997	6.1800e-003	0.0000	19.2541
Total	2.6600e-003	0.0115	0.1639	2.2000e-004	0.0000	3.5000e-004	3.5000e-004	0.0000	3.5000e-004	3.5000e-004	0.0000	19.0997	19.0997	6.1800e-003	0.0000	19.2541

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3.4 Site Preparation - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	4.8000e-004	5.4200e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6628	1.6628	4.0000e-005	0.0000	1.6637
Total	6.8000e-004	4.8000e-004	5.4200e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6628	1.6628	4.0000e-005	0.0000	1.6637

3.5 Mass Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5564	0.0000	0.5564	0.0947	0.0000	0.0947	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1180	1.3822	0.7497	2.0300e-003		0.0527	0.0527		0.0485	0.0485	0.0000	178.6333	178.6333	0.0578	0.0000	180.0776
Total	0.1180	1.3822	0.7497	2.0300e-003	0.5564	0.0527	0.6090	0.0947	0.0485	0.1432	0.0000	178.6333	178.6333	0.0578	0.0000	180.0776

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3.5 Mass Grading - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2400e-003	0.0461	0.0116	1.2000e-004	0.0128	1.5000e-004	0.0130	3.2300e-003	1.4000e-004	3.3700e-003	0.0000	12.4958	12.4958	1.3200e-003	0.0000	12.5288
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0100e-003	7.1000e-004	8.0600e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4704	2.4704	6.0000e-005	0.0000	2.4718
Total	2.2500e-003	0.0468	0.0196	1.5000e-004	0.0157	1.7000e-004	0.0158	3.9900e-003	1.6000e-004	4.1500e-003	0.0000	14.9663	14.9663	1.3800e-003	0.0000	15.0006

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1447	0.0000	0.1447	0.0246	0.0000	0.0246	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0641	0.6620	0.8384	2.0300e-003		0.0237	0.0237		0.0219	0.0219	0.0000	178.6331	178.6331	0.0578	0.0000	180.0774
Total	0.0641	0.6620	0.8384	2.0300e-003	0.1447	0.0237	0.1683	0.0246	0.0219	0.0465	0.0000	178.6331	178.6331	0.0578	0.0000	180.0774

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3.5 Mass Grading - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2400e-003	0.0461	0.0116	1.2000e-004	0.0128	1.5000e-004	0.0130	3.2300e-003	1.4000e-004	3.3700e-003	0.0000	12.4958	12.4958	1.3200e-003	0.0000	12.5288
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0100e-003	7.1000e-004	8.0600e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4704	2.4704	6.0000e-005	0.0000	2.4718
Total	2.2500e-003	0.0468	0.0196	1.5000e-004	0.0157	1.7000e-004	0.0158	3.9900e-003	1.6000e-004	4.1500e-003	0.0000	14.9663	14.9663	1.3800e-003	0.0000	15.0006

3.5 Mass Grading - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8514	0.0000	0.8514	0.2569	0.0000	0.2569	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5379	6.1166	3.4445	9.7000e-003		0.2339	0.2339		0.2152	0.2152	0.0000	851.9650	851.9650	0.2755	0.0000	858.8536
Total	0.5379	6.1166	3.4445	9.7000e-003	0.8514	0.2339	1.0853	0.2569	0.2152	0.4721	0.0000	851.9650	851.9650	0.2755	0.0000	858.8536

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3.5 Mass Grading - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.6400e-003	0.2032	0.0553	5.8000e-004	0.0154	6.2000e-004	0.0160	4.1600e-003	6.0000e-004	4.7600e-003	0.0000	58.8648	58.8648	6.2000e-003	0.0000	59.0198
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5400e-003	3.0500e-003	0.0356	1.3000e-004	0.0136	9.0000e-005	0.0137	3.6200e-003	8.0000e-005	3.7000e-003	0.0000	11.3732	11.3732	2.4000e-004	0.0000	11.3792
Total	0.0102	0.2062	0.0909	7.1000e-004	0.0290	7.1000e-004	0.0297	7.7800e-003	6.8000e-004	8.4600e-003	0.0000	70.2379	70.2379	6.4400e-003	0.0000	70.3991

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2214	0.0000	0.2214	0.0668	0.0000	0.0668	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2948	2.9372	3.9365	9.7000e-003		0.1055	0.1055		0.0978	0.0978	0.0000	851.9640	851.9640	0.2755	0.0000	858.8525
Total	0.2948	2.9372	3.9365	9.7000e-003	0.2214	0.1055	0.3269	0.0668	0.0978	0.1646	0.0000	851.9640	851.9640	0.2755	0.0000	858.8525

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3.5 Mass Grading - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.6400e-003	0.2032	0.0553	5.8000e-004	0.0154	6.2000e-004	0.0160	4.1600e-003	6.0000e-004	4.7600e-003	0.0000	58.8648	58.8648	6.2000e-003	0.0000	59.0198
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5400e-003	3.0500e-003	0.0356	1.3000e-004	0.0136	9.0000e-005	0.0137	3.6200e-003	8.0000e-005	3.7000e-003	0.0000	11.3732	11.3732	2.4000e-004	0.0000	11.3792
Total	0.0102	0.2062	0.0909	7.1000e-004	0.0290	7.1000e-004	0.0297	7.7800e-003	6.8000e-004	8.4600e-003	0.0000	70.2379	70.2379	6.4400e-003	0.0000	70.3991

3.6 Precise Grading - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.1972	0.2351	3.2000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	28.3891	28.3891	9.1800e-003	0.0000	28.6186
Total	0.0195	0.1972	0.2351	3.2000e-004	0.0000	0.0116	0.0116	0.0000	0.0107	0.0107	0.0000	28.3891	28.3891	9.1800e-003	0.0000	28.6186

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3.6 Precise Grading - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	6.4000e-004	7.4700e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.3847	2.3847	5.0000e-005	0.0000	2.3860
Total	9.5000e-004	6.4000e-004	7.4700e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.3847	2.3847	5.0000e-005	0.0000	2.3860

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9500e-003	0.0171	0.2436	3.2000e-004		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	28.3891	28.3891	9.1800e-003	0.0000	28.6186
Total	3.9500e-003	0.0171	0.2436	3.2000e-004	0.0000	5.3000e-004	5.3000e-004	0.0000	5.3000e-004	5.3000e-004	0.0000	28.3891	28.3891	9.1800e-003	0.0000	28.6186

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3.6 Precise Grading - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	6.4000e-004	7.4700e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.3847	2.3847	5.0000e-005	0.0000	2.3860
Total	9.5000e-004	6.4000e-004	7.4700e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.3847	2.3847	5.0000e-005	0.0000	2.3860

3.7 Building Construction - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0668	0.6187	0.5831	9.5000e-004		0.0338	0.0338		0.0318	0.0318	0.0000	81.9092	81.9092	0.0202	0.0000	82.4145
Total	0.0668	0.6187	0.5831	9.5000e-004		0.0338	0.0338		0.0318	0.0318	0.0000	81.9092	81.9092	0.0202	0.0000	82.4145

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3.7 Building Construction - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0129	0.4496	0.1260	1.1500e-003	0.0297	9.3000e-004	0.0306	8.5700e-003	8.9000e-004	9.4600e-003	0.0000	113.8829	113.8829	9.2200e-003	0.0000	114.1134
Worker	0.0484	0.0325	0.3792	1.3400e-003	0.1449	9.6000e-004	0.1459	0.0385	8.8000e-004	0.0394	0.0000	121.0690	121.0690	2.5900e-003	0.0000	121.1338
Total	0.0612	0.4821	0.5052	2.4900e-003	0.1746	1.8900e-003	0.1765	0.0471	1.7700e-003	0.0488	0.0000	234.9519	234.9519	0.0118	0.0000	235.2472

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0116	0.0771	0.6159	9.5000e-004		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	81.9091	81.9091	0.0202	0.0000	82.4144
Total	0.0116	0.0771	0.6159	9.5000e-004		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	81.9091	81.9091	0.0202	0.0000	82.4144

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3.7 Building Construction - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0129	0.4496	0.1260	1.1500e-003	0.0297	9.3000e-004	0.0306	8.5700e-003	8.9000e-004	9.4600e-003	0.0000	113.8829	113.8829	9.2200e-003	0.0000	114.1134
Worker	0.0484	0.0325	0.3792	1.3400e-003	0.1449	9.6000e-004	0.1459	0.0385	8.8000e-004	0.0394	0.0000	121.0690	121.0690	2.5900e-003	0.0000	121.1338
Total	0.0612	0.4821	0.5052	2.4900e-003	0.1746	1.8900e-003	0.1765	0.0471	1.7700e-003	0.0488	0.0000	234.9519	234.9519	0.0118	0.0000	235.2472

3.7 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2359	2.1797	2.2671	3.7500e-003		0.1124	0.1124		0.1056	0.1056	0.0000	322.8033	322.8033	0.0791	0.0000	324.7819
Total	0.2359	2.1797	2.2671	3.7500e-003		0.1124	0.1124		0.1056	0.1056	0.0000	322.8033	322.8033	0.0791	0.0000	324.7819

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3.7 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0477	1.6738	0.4790	4.4900e-003	0.1170	3.2000e-003	0.1202	0.0338	3.0600e-003	0.0368	0.0000	444.2060	444.2060	0.0352	0.0000	445.0847
Worker	0.1803	0.1160	1.3926	5.0800e-003	0.5709	3.6900e-003	0.5745	0.1516	3.4000e-003	0.1550	0.0000	459.2813	459.2813	9.2700e-003	0.0000	459.5131
Total	0.2279	1.7899	1.8716	9.5700e-003	0.6879	6.8900e-003	0.6948	0.1854	6.4600e-003	0.1918	0.0000	903.4874	903.4874	0.0444	0.0000	904.5978

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0456	0.3035	2.4262	3.7500e-003		5.7000e-003	5.7000e-003		5.7000e-003	5.7000e-003	0.0000	322.8029	322.8029	0.0791	0.0000	324.7815
Total	0.0456	0.3035	2.4262	3.7500e-003		5.7000e-003	5.7000e-003		5.7000e-003	5.7000e-003	0.0000	322.8029	322.8029	0.0791	0.0000	324.7815

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3.7 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0477	1.6738	0.4790	4.4900e-003	0.1170	3.2000e-003	0.1202	0.0338	3.0600e-003	0.0368	0.0000	444.2060	444.2060	0.0352	0.0000	445.0847
Worker	0.1803	0.1160	1.3926	5.0800e-003	0.5709	3.6900e-003	0.5745	0.1516	3.4000e-003	0.1550	0.0000	459.2813	459.2813	9.2700e-003	0.0000	459.5131
Total	0.2279	1.7899	1.8716	9.5700e-003	0.6879	6.8900e-003	0.6948	0.1854	6.4600e-003	0.1918	0.0000	903.4874	903.4874	0.0444	0.0000	904.5978

3.7 Building Construction - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2176	2.0069	2.2503	3.7500e-003		0.0973	0.0973		0.0914	0.0914	0.0000	322.9214	322.9214	0.0787	0.0000	324.8880
Total	0.2176	2.0069	2.2503	3.7500e-003		0.0973	0.0973		0.0914	0.0914	0.0000	322.9214	322.9214	0.0787	0.0000	324.8880

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3.7 Building Construction - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0363	1.2569	0.4442	4.3400e-003	0.1170	1.5400e-003	0.1186	0.0338	1.4700e-003	0.0352	0.0000	430.7860	430.7860	0.0326	0.0000	431.6009
Worker	0.1709	0.1054	1.2971	4.8800e-003	0.5709	3.6300e-003	0.5745	0.1516	3.3400e-003	0.1549	0.0000	441.6407	441.6407	8.4000e-003	0.0000	441.8508
Total	0.2072	1.3622	1.7413	9.2200e-003	0.6879	5.1700e-003	0.6930	0.1854	4.8100e-003	0.1902	0.0000	872.4267	872.4267	0.0410	0.0000	873.4517

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0456	0.3035	2.4262	3.7500e-003		5.7000e-003	5.7000e-003		5.7000e-003	5.7000e-003	0.0000	322.9211	322.9211	0.0787	0.0000	324.8876
Total	0.0456	0.3035	2.4262	3.7500e-003		5.7000e-003	5.7000e-003		5.7000e-003	5.7000e-003	0.0000	322.9211	322.9211	0.0787	0.0000	324.8876

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3.7 Building Construction - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0363	1.2569	0.4442	4.3400e-003	0.1170	1.5400e-003	0.1186	0.0338	1.4700e-003	0.0352	0.0000	430.7860	430.7860	0.0326	0.0000	431.6009
Worker	0.1709	0.1054	1.2971	4.8800e-003	0.5709	3.6300e-003	0.5745	0.1516	3.3400e-003	0.1549	0.0000	441.6407	441.6407	8.4000e-003	0.0000	441.8508
Total	0.2072	1.3622	1.7413	9.2200e-003	0.6879	5.1700e-003	0.6930	0.1854	4.8100e-003	0.1902	0.0000	872.4267	872.4267	0.0410	0.0000	873.4517

3.7 Building Construction - 2024**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2053	1.8897	2.2567	3.7800e-003		0.0860	0.0860		0.0808	0.0808	0.0000	325.4719	325.4719	0.0789	0.0000	327.4433
Total	0.2053	1.8897	2.2567	3.7800e-003		0.0860	0.0860		0.0808	0.0808	0.0000	325.4719	325.4719	0.0789	0.0000	327.4433

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3.7 Building Construction - 2024**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0353	1.2506	0.4381	4.3300e-003	0.1179	1.5100e-003	0.1194	0.0340	1.4500e-003	0.0355	0.0000	430.6735	430.6735	0.0323	0.0000	431.4817
Worker	0.1639	0.0967	1.2158	4.7200e-003	0.5753	3.5900e-003	0.5788	0.1528	3.3000e-003	0.1561	0.0000	427.4058	427.4058	7.6800e-003	0.0000	427.5979
Total	0.1993	1.3472	1.6539	9.0500e-003	0.6932	5.1000e-003	0.6983	0.1868	4.7500e-003	0.1915	0.0000	858.0793	858.0793	0.0400	0.0000	859.0796

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0460	0.3059	2.4449	3.7800e-003		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	325.4715	325.4715	0.0789	0.0000	327.4429
Total	0.0460	0.3059	2.4449	3.7800e-003		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	325.4715	325.4715	0.0789	0.0000	327.4429

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3.7 Building Construction - 2024**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0353	1.2506	0.4381	4.3300e-003	0.1179	1.5100e-003	0.1194	0.0340	1.4500e-003	0.0355	0.0000	430.6735	430.6735	0.0323	0.0000	431.4817
Worker	0.1639	0.0967	1.2158	4.7200e-003	0.5753	3.5900e-003	0.5788	0.1528	3.3000e-003	0.1561	0.0000	427.4058	427.4058	7.6800e-003	0.0000	427.5979
Total	0.1993	1.3472	1.6539	9.0500e-003	0.6932	5.1000e-003	0.6983	0.1868	4.7500e-003	0.1915	0.0000	858.0793	858.0793	0.0400	0.0000	859.0796

3.7 Building Construction - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3345	324.3345	0.0782	0.0000	326.2884
Total	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3345	324.3345	0.0782	0.0000	326.2884

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3.7 Building Construction - 2025**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0343	1.2294	0.4311	4.2900e-003	0.1175	1.4700e-003	0.1190	0.0339	1.4100e-003	0.0353	0.0000	426.4010	426.4010	0.0318	0.0000	427.1950
Worker	0.1562	0.0883	1.1300	4.5100e-003	0.5731	3.5300e-003	0.5766	0.1522	3.2500e-003	0.1554	0.0000	408.5730	408.5730	7.0000e-003	0.0000	408.7479
Total	0.1905	1.3178	1.5611	8.8000e-003	0.6905	5.0000e-003	0.6955	0.1861	4.6600e-003	0.1907	0.0000	834.9740	834.9740	0.0388	0.0000	835.9429

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0458	0.3047	2.4356	3.7700e-003		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003	0.0000	324.3341	324.3341	0.0782	0.0000	326.2881
Total	0.0458	0.3047	2.4356	3.7700e-003		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003	0.0000	324.3341	324.3341	0.0782	0.0000	326.2881

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3.7 Building Construction - 2025**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0343	1.2294	0.4311	4.2900e-003	0.1175	1.4700e-003	0.1190	0.0339	1.4100e-003	0.0353	0.0000	426.4010	426.4010	0.0318	0.0000	427.1950
Worker	0.1562	0.0883	1.1300	4.5100e-003	0.5731	3.5300e-003	0.5766	0.1522	3.2500e-003	0.1554	0.0000	408.5730	408.5730	7.0000e-003	0.0000	408.7479
Total	0.1905	1.3178	1.5611	8.8000e-003	0.6905	5.0000e-003	0.6955	0.1861	4.6600e-003	0.1907	0.0000	834.9740	834.9740	0.0388	0.0000	835.9429

3.7 Building Construction - 2026**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1172	1.0760	1.3796	2.3200e-003		0.0455	0.0455		0.0427	0.0427	0.0000	200.0684	200.0684	0.0482	0.0000	201.2737
Total	0.1172	1.0760	1.3796	2.3200e-003		0.0455	0.0455		0.0427	0.0427	0.0000	200.0684	200.0684	0.0482	0.0000	201.2737

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3.7 Building Construction - 2026**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0207	0.7483	0.2637	2.6300e-003	0.0725	8.9000e-004	0.0734	0.0209	8.5000e-004	0.0218	0.0000	261.4723	261.4723	0.0193	0.0000	261.9554
Worker	0.0926	0.0503	0.6542	2.6800e-003	0.3535	2.1100e-003	0.3556	0.0939	1.9500e-003	0.0958	0.0000	242.9200	242.9200	3.9700e-003	0.0000	243.0191
Total	0.1132	0.7986	0.9179	5.3100e-003	0.4260	3.0000e-003	0.4290	0.1148	2.8000e-003	0.1176	0.0000	504.3923	504.3923	0.0233	0.0000	504.9745

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0283	0.1880	1.5024	2.3200e-003		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003	0.0000	200.0682	200.0682	0.0482	0.0000	201.2735
Total	0.0283	0.1880	1.5024	2.3200e-003		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003	0.0000	200.0682	200.0682	0.0482	0.0000	201.2735

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3.7 Building Construction - 2026**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0207	0.7483	0.2637	2.6300e-003	0.0725	8.9000e-004	0.0734	0.0209	8.5000e-004	0.0218	0.0000	261.4723	261.4723	0.0193	0.0000	261.9554
Worker	0.0926	0.0503	0.6542	2.6800e-003	0.3535	2.1100e-003	0.3556	0.0939	1.9500e-003	0.0958	0.0000	242.9200	242.9200	3.9700e-003	0.0000	243.0191
Total	0.1132	0.7986	0.9179	5.3100e-003	0.4260	3.0000e-003	0.4290	0.1148	2.8000e-003	0.1176	0.0000	504.3923	504.3923	0.0233	0.0000	504.9745

3.8 Paving - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0414	0.4263	0.4836	7.5000e-004		0.0224	0.0224		0.0206	0.0206	0.0000	66.0775	66.0775	0.0214	0.0000	66.6118
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0414	0.4263	0.4836	7.5000e-004		0.0224	0.0224		0.0206	0.0206	0.0000	66.0775	66.0775	0.0214	0.0000	66.6118

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3.8 Paving - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8100e-003	1.2200e-003	0.0142	5.0000e-005	5.4300e-003	4.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.5401	4.5401	1.0000e-004	0.0000	4.5425
Total	1.8100e-003	1.2200e-003	0.0142	5.0000e-005	5.4300e-003	4.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.5401	4.5401	1.0000e-004	0.0000	4.5425

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.2600e-003	0.0401	0.5708	7.5000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	66.0774	66.0774	0.0214	0.0000	66.6117
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.2600e-003	0.0401	0.5708	7.5000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	66.0774	66.0774	0.0214	0.0000	66.6117

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3.8 Paving - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8100e-003	1.2200e-003	0.0142	5.0000e-005	5.4300e-003	4.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.5401	4.5401	1.0000e-004	0.0000	4.5425
Total	1.8100e-003	1.2200e-003	0.0142	5.0000e-005	5.4300e-003	4.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.5401	4.5401	1.0000e-004	0.0000	4.5425

3.8 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1434	1.4462	1.8955	2.9600e-003		0.0738	0.0738		0.0679	0.0679	0.0000	260.3583	260.3583	0.0842	0.0000	262.4634
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1434	1.4462	1.8955	2.9600e-003		0.0738	0.0738		0.0679	0.0679	0.0000	260.3583	260.3583	0.0842	0.0000	262.4634

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3.8 Paving - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7600e-003	4.3500e-003	0.0522	1.9000e-004	0.0214	1.4000e-004	0.0216	5.6800e-003	1.3000e-004	5.8100e-003	0.0000	17.2231	17.2231	3.5000e-004	0.0000	17.2317
Total	6.7600e-003	4.3500e-003	0.0522	1.9000e-004	0.0214	1.4000e-004	0.0216	5.6800e-003	1.3000e-004	5.8100e-003	0.0000	17.2231	17.2231	3.5000e-004	0.0000	17.2317

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0365	0.1580	2.2484	2.9600e-003		4.8600e-003	4.8600e-003		4.8600e-003	4.8600e-003	0.0000	260.3579	260.3579	0.0842	0.0000	262.4631
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0365	0.1580	2.2484	2.9600e-003		4.8600e-003	4.8600e-003		4.8600e-003	4.8600e-003	0.0000	260.3579	260.3579	0.0842	0.0000	262.4631

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

3.8 Paving - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7600e-003	4.3500e-003	0.0522	1.9000e-004	0.0214	1.4000e-004	0.0216	5.6800e-003	1.3000e-004	5.8100e-003	0.0000	17.2231	17.2231	3.5000e-004	0.0000	17.2317
Total	6.7600e-003	4.3500e-003	0.0522	1.9000e-004	0.0214	1.4000e-004	0.0216	5.6800e-003	1.3000e-004	5.8100e-003	0.0000	17.2231	17.2231	3.5000e-004	0.0000	17.2317

3.8 Paving - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1343	1.3249	1.8960	2.9600e-003		0.0663	0.0663		0.0610	0.0610	0.0000	260.3493	260.3493	0.0842	0.0000	262.4543
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1343	1.3249	1.8960	2.9600e-003		0.0663	0.0663		0.0610	0.0610	0.0000	260.3493	260.3493	0.0842	0.0000	262.4543

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

3.8 Paving - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4100e-003	3.9500e-003	0.0486	1.8000e-004	0.0214	1.4000e-004	0.0215	5.6800e-003	1.3000e-004	5.8100e-003	0.0000	16.5615	16.5615	3.2000e-004	0.0000	16.5694
Total	6.4100e-003	3.9500e-003	0.0486	1.8000e-004	0.0214	1.4000e-004	0.0215	5.6800e-003	1.3000e-004	5.8100e-003	0.0000	16.5615	16.5615	3.2000e-004	0.0000	16.5694

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0365	0.1580	2.2484	2.9600e-003		4.8600e-003	4.8600e-003		4.8600e-003	4.8600e-003	0.0000	260.3490	260.3490	0.0842	0.0000	262.4540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0365	0.1580	2.2484	2.9600e-003		4.8600e-003	4.8600e-003		4.8600e-003	4.8600e-003	0.0000	260.3490	260.3490	0.0842	0.0000	262.4540

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3.8 Paving - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4100e-003	3.9500e-003	0.0486	1.8000e-004	0.0214	1.4000e-004	0.0215	5.6800e-003	1.3000e-004	5.8100e-003	0.0000	16.5615	16.5615	3.2000e-004	0.0000	16.5694
Total	6.4100e-003	3.9500e-003	0.0486	1.8000e-004	0.0214	1.4000e-004	0.0215	5.6800e-003	1.3000e-004	5.8100e-003	0.0000	16.5615	16.5615	3.2000e-004	0.0000	16.5694

3.8 Paving - 2024**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1295	1.2477	1.9160	2.9900e-003		0.0614	0.0614		0.0565	0.0565	0.0000	262.3476	262.3476	0.0849	0.0000	264.4688
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1295	1.2477	1.9160	2.9900e-003		0.0614	0.0614		0.0565	0.0565	0.0000	262.3476	262.3476	0.0849	0.0000	264.4688

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3.8 Paving - 2024**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1500e-003	3.6300e-003	0.0456	1.8000e-004	0.0216	1.3000e-004	0.0217	5.7300e-003	1.2000e-004	5.8500e-003	0.0000	16.0277	16.0277	2.9000e-004	0.0000	16.0349
Total	6.1500e-003	3.6300e-003	0.0456	1.8000e-004	0.0216	1.3000e-004	0.0217	5.7300e-003	1.2000e-004	5.8500e-003	0.0000	16.0277	16.0277	2.9000e-004	0.0000	16.0349

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0367	0.1592	2.2657	2.9900e-003		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	262.3473	262.3473	0.0849	0.0000	264.4685
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0367	0.1592	2.2657	2.9900e-003		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	262.3473	262.3473	0.0849	0.0000	264.4685

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3.8 Paving - 2024**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1500e-003	3.6300e-003	0.0456	1.8000e-004	0.0216	1.3000e-004	0.0217	5.7300e-003	1.2000e-004	5.8500e-003	0.0000	16.0277	16.0277	2.9000e-004	0.0000	16.0349
Total	6.1500e-003	3.6300e-003	0.0456	1.8000e-004	0.0216	1.3000e-004	0.0217	5.7300e-003	1.2000e-004	5.8500e-003	0.0000	16.0277	16.0277	2.9000e-004	0.0000	16.0349

3.8 Paving - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1194	1.1199	1.9024	2.9800e-003		0.0546	0.0546		0.0503	0.0503	0.0000	261.2513	261.2513	0.0845	0.0000	263.3636
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1194	1.1199	1.9024	2.9800e-003		0.0546	0.0546		0.0503	0.0503	0.0000	261.2513	261.2513	0.0845	0.0000	263.3636

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3.8 Paving - 2025**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8600e-003	3.3100e-003	0.0424	1.7000e-004	0.0215	1.3000e-004	0.0216	5.7100e-003	1.2000e-004	5.8300e-003	0.0000	15.3215	15.3215	2.6000e-004	0.0000	15.3281
Total	5.8600e-003	3.3100e-003	0.0424	1.7000e-004	0.0215	1.3000e-004	0.0216	5.7100e-003	1.2000e-004	5.8300e-003	0.0000	15.3215	15.3215	2.6000e-004	0.0000	15.3281

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0366	0.1586	2.2571	2.9800e-003		4.8800e-003	4.8800e-003		4.8800e-003	4.8800e-003	0.0000	261.2510	261.2510	0.0845	0.0000	263.3633
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0366	0.1586	2.2571	2.9800e-003		4.8800e-003	4.8800e-003		4.8800e-003	4.8800e-003	0.0000	261.2510	261.2510	0.0845	0.0000	263.3633

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3.8 Paving - 2025**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8600e-003	3.3100e-003	0.0424	1.7000e-004	0.0215	1.3000e-004	0.0216	5.7100e-003	1.2000e-004	5.8300e-003	0.0000	15.3215	15.3215	2.6000e-004	0.0000	15.3281
Total	5.8600e-003	3.3100e-003	0.0424	1.7000e-004	0.0215	1.3000e-004	0.0216	5.7100e-003	1.2000e-004	5.8300e-003	0.0000	15.3215	15.3215	2.6000e-004	0.0000	15.3281

3.8 Paving - 2026**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0737	0.6908	1.1735	1.8400e-003		0.0337	0.0337		0.0310	0.0310	0.0000	161.1550	161.1550	0.0521	0.0000	162.4580
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0737	0.6908	1.1735	1.8400e-003		0.0337	0.0337		0.0310	0.0310	0.0000	161.1550	161.1550	0.0521	0.0000	162.4580

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3.8 Paving - 2026**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4700e-003	1.8900e-003	0.0245	1.0000e-004	0.0133	8.0000e-005	0.0133	3.5200e-003	7.0000e-005	3.5900e-003	0.0000	9.1095	9.1095	1.5000e-004	0.0000	9.1132
Total	3.4700e-003	1.8900e-003	0.0245	1.0000e-004	0.0133	8.0000e-005	0.0133	3.5200e-003	7.0000e-005	3.5900e-003	0.0000	9.1095	9.1095	1.5000e-004	0.0000	9.1132

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0226	0.0978	1.3923	1.8400e-003		3.0100e-003	3.0100e-003		3.0100e-003	3.0100e-003	0.0000	161.1548	161.1548	0.0521	0.0000	162.4578
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0226	0.0978	1.3923	1.8400e-003		3.0100e-003	3.0100e-003		3.0100e-003	3.0100e-003	0.0000	161.1548	161.1548	0.0521	0.0000	162.4578

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3.8 Paving - 2026**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4700e-003	1.8900e-003	0.0245	1.0000e-004	0.0133	8.0000e-005	0.0133	3.5200e-003	7.0000e-005	3.5900e-003	0.0000	9.1095	9.1095	1.5000e-004	0.0000	9.1132
Total	3.4700e-003	1.8900e-003	0.0245	1.0000e-004	0.0133	8.0000e-005	0.0133	3.5200e-003	7.0000e-005	3.5900e-003	0.0000	9.1095	9.1095	1.5000e-004	0.0000	9.1132

3.9 Architectural Coating - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1854					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6300e-003	0.0672	0.0800	1.3000e-004		4.1400e-003	4.1400e-003		4.1400e-003	4.1400e-003	0.0000	11.2343	11.2343	7.7000e-004	0.0000	11.2536
Total	0.1950	0.0672	0.0800	1.3000e-004		4.1400e-003	4.1400e-003		4.1400e-003	4.1400e-003	0.0000	11.2343	11.2343	7.7000e-004	0.0000	11.2536

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3.9 Architectural Coating - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6700e-003	6.5000e-003	0.0758	2.7000e-004	0.0290	1.9000e-004	0.0292	7.7000e-003	1.8000e-004	7.8700e-003	0.0000	24.2138	24.2138	5.2000e-004	0.0000	24.2268
Total	9.6700e-003	6.5000e-003	0.0758	2.7000e-004	0.0290	1.9000e-004	0.0292	7.7000e-003	1.8000e-004	7.8700e-003	0.0000	24.2138	24.2138	5.2000e-004	0.0000	24.2268

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1854					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	5.6700e-003	0.0806	1.3000e-004		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	11.2343	11.2343	7.7000e-004	0.0000	11.2536
Total	0.1867	5.6700e-003	0.0806	1.3000e-004		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	11.2343	11.2343	7.7000e-004	0.0000	11.2536

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

3.9 Architectural Coating - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6700e-003	6.5000e-003	0.0758	2.7000e-004	0.0290	1.9000e-004	0.0292	7.7000e-003	1.8000e-004	7.8700e-003	0.0000	24.2138	24.2138	5.2000e-004	0.0000	24.2268
Total	9.6700e-003	6.5000e-003	0.0758	2.7000e-004	0.0290	1.9000e-004	0.0292	7.7000e-003	1.8000e-004	7.8700e-003	0.0000	24.2138	24.2138	5.2000e-004	0.0000	24.2268

3.9 Architectural Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0355	0.2441	0.3144	5.2000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	44.2564	44.2564	2.8800e-003	0.0000	44.3284
Total	0.7657	0.2441	0.3144	5.2000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	44.2564	44.2564	2.8800e-003	0.0000	44.3284

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

3.9 Architectural Coating - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0361	0.0232	0.2785	1.0200e-003	0.1142	7.4000e-004	0.1149	0.0303	6.8000e-004	0.0310	0.0000	91.8563	91.8563	1.8500e-003	0.0000	91.9026
Total	0.0361	0.0232	0.2785	1.0200e-003	0.1142	7.4000e-004	0.1149	0.0303	6.8000e-004	0.0310	0.0000	91.8563	91.8563	1.8500e-003	0.0000	91.9026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1500e-003	0.0223	0.3176	5.2000e-004		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	44.2564	44.2564	2.8800e-003	0.0000	44.3284
Total	0.7354	0.0223	0.3176	5.2000e-004		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	44.2564	44.2564	2.8800e-003	0.0000	44.3284

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3.9 Architectural Coating - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0361	0.0232	0.2785	1.0200e-003	0.1142	7.4000e-004	0.1149	0.0303	6.8000e-004	0.0310	0.0000	91.8563	91.8563	1.8500e-003	0.0000	91.9026
Total	0.0361	0.0232	0.2785	1.0200e-003	0.1142	7.4000e-004	0.1149	0.0303	6.8000e-004	0.0310	0.0000	91.8563	91.8563	1.8500e-003	0.0000	91.9026

3.9 Architectural Coating - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0332	0.2259	0.3139	5.2000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	44.2564	44.2564	2.6500e-003	0.0000	44.3226
Total	0.7635	0.2259	0.3139	5.2000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	44.2564	44.2564	2.6500e-003	0.0000	44.3226

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3.9 Architectural Coating - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0342	0.0211	0.2594	9.8000e-004	0.1142	7.3000e-004	0.1149	0.0303	6.7000e-004	0.0310	0.0000	88.3282	88.3282	1.6800e-003	0.0000	88.3702
Total	0.0342	0.0211	0.2594	9.8000e-004	0.1142	7.3000e-004	0.1149	0.0303	6.7000e-004	0.0310	0.0000	88.3282	88.3282	1.6800e-003	0.0000	88.3702

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1500e-003	0.0223	0.3176	5.2000e-004		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	44.2564	44.2564	2.6500e-003	0.0000	44.3225
Total	0.7354	0.0223	0.3176	5.2000e-004		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	44.2564	44.2564	2.6500e-003	0.0000	44.3225

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3.9 Architectural Coating - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0342	0.0211	0.2594	9.8000e-004	0.1142	7.3000e-004	0.1149	0.0303	6.7000e-004	0.0310	0.0000	88.3282	88.3282	1.6800e-003	0.0000	88.3702
Total	0.0342	0.0211	0.2594	9.8000e-004	0.1142	7.3000e-004	0.1149	0.0303	6.7000e-004	0.0310	0.0000	88.3282	88.3282	1.6800e-003	0.0000	88.3702

3.9 Architectural Coating - 2024**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7359					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0316	0.2129	0.3162	5.2000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	44.5968	44.5968	2.5100e-003	0.0000	44.6596
Total	0.7674	0.2129	0.3162	5.2000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	44.5968	44.5968	2.5100e-003	0.0000	44.6596

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3.9 Architectural Coating - 2024**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0328	0.0193	0.2432	9.4000e-004	0.1151	7.2000e-004	0.1158	0.0306	6.6000e-004	0.0312	0.0000	85.4812	85.4812	1.5400e-003	0.0000	85.5196
Total	0.0328	0.0193	0.2432	9.4000e-004	0.1151	7.2000e-004	0.1158	0.0306	6.6000e-004	0.0312	0.0000	85.4812	85.4812	1.5400e-003	0.0000	85.5196

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7359					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1900e-003	0.0225	0.3201	5.2000e-004		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	44.5968	44.5968	2.5100e-003	0.0000	44.6596
Total	0.7411	0.0225	0.3201	5.2000e-004		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	44.5968	44.5968	2.5100e-003	0.0000	44.6596

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3.9 Architectural Coating - 2024**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0328	0.0193	0.2432	9.4000e-004	0.1151	7.2000e-004	0.1158	0.0306	6.6000e-004	0.0312	0.0000	85.4812	85.4812	1.5400e-003	0.0000	85.5196
Total	0.0328	0.0193	0.2432	9.4000e-004	0.1151	7.2000e-004	0.1158	0.0306	6.6000e-004	0.0312	0.0000	85.4812	85.4812	1.5400e-003	0.0000	85.5196

3.9 Architectural Coating - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0297	0.1993	0.3148	5.2000e-004		8.9600e-003	8.9600e-003		8.9600e-003	8.9600e-003	0.0000	44.4266	44.4266	2.4200e-003	0.0000	44.4872
Total	0.7628	0.1993	0.3148	5.2000e-004		8.9600e-003	8.9600e-003		8.9600e-003	8.9600e-003	0.0000	44.4266	44.4266	2.4200e-003	0.0000	44.4872

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3.9 Architectural Coating - 2025**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0312	0.0177	0.2260	9.0000e-004	0.1146	7.1000e-004	0.1153	0.0304	6.5000e-004	0.0311	0.0000	81.7146	81.7146	1.4000e-003	0.0000	81.7496
Total	0.0312	0.0177	0.2260	9.0000e-004	0.1146	7.1000e-004	0.1153	0.0304	6.5000e-004	0.0311	0.0000	81.7146	81.7146	1.4000e-003	0.0000	81.7496

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1700e-003	0.0224	0.3188	5.2000e-004		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	44.4266	44.4266	2.4200e-003	0.0000	44.4872
Total	0.7382	0.0224	0.3188	5.2000e-004		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	44.4266	44.4266	2.4200e-003	0.0000	44.4872

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3.9 Architectural Coating - 2025**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0312	0.0177	0.2260	9.0000e-004	0.1146	7.1000e-004	0.1153	0.0304	6.5000e-004	0.0311	0.0000	81.7146	81.7146	1.4000e-003	0.0000	81.7496
Total	0.0312	0.0177	0.2260	9.0000e-004	0.1146	7.1000e-004	0.1153	0.0304	6.5000e-004	0.0311	0.0000	81.7146	81.7146	1.4000e-003	0.0000	81.7496

3.9 Architectural Coating - 2026**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4522					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0183	0.1230	0.1942	3.2000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003	0.0000	27.4049	27.4049	1.4900e-003	0.0000	27.4423
Total	0.4705	0.1230	0.1942	3.2000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003	0.0000	27.4049	27.4049	1.4900e-003	0.0000	27.4423

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

3.9 Architectural Coating - 2026**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0185	0.0101	0.1309	5.4000e-004	0.0707	4.2000e-004	0.0711	0.0188	3.9000e-004	0.0192	0.0000	48.5840	48.5840	7.9000e-004	0.0000	48.6038
Total	0.0185	0.0101	0.1309	5.4000e-004	0.0707	4.2000e-004	0.0711	0.0188	3.9000e-004	0.0192	0.0000	48.5840	48.5840	7.9000e-004	0.0000	48.6038

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4522					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1900e-003	0.0138	0.1967	3.2000e-004		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	27.4049	27.4049	1.4900e-003	0.0000	27.4423
Total	0.4554	0.0138	0.1967	3.2000e-004		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	27.4049	27.4049	1.4900e-003	0.0000	27.4423

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

3.9 Architectural Coating - 2026**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0185	0.0101	0.1309	5.4000e-004	0.0707	4.2000e-004	0.0711	0.0188	3.9000e-004	0.0192	0.0000	48.5840	48.5840	7.9000e-004	0.0000	48.6038
Total	0.0185	0.0101	0.1309	5.4000e-004	0.0707	4.2000e-004	0.0711	0.0188	3.9000e-004	0.0192	0.0000	48.5840	48.5840	7.9000e-004	0.0000	48.6038

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Supermarket	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Rancho La Habra Project Development (Construction - Mitigated) - Orange 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
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Condo/Townhouse	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Supermarket	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

[illegible]

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

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

5.2 Energy by Land Use - NaturalGas

Mitigated

[illegible]

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

5.3 Energy by Land Use - Electricity**Unmitigated**

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

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

5.3 Energy by Land Use - Electricity**Mitigated**

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

6.0 Area Detail**6.1 Mitigation Measures Area**

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

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.0631					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1306	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813
Total	4.5504	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813

Rancho La Habra Project Development (Construction - Mitigated) - Orange 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	0.3567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.0631					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1306	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813
Total	4.5504	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813

7.0 Water Detail**7.1 Mitigation Measures Water**

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

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

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

7.2 Water by Land Use**Unmitigated**

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

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

7.2 Water by Land Use**Mitigated**

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Rancho La Habra Project Development (Construction - Mitigated) - Orange 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

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

8.2 Waste by Land Use**Unmitigated**

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

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

8.2 Waste by Land Use**Mitigated**

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

9.0 Operational Offroad

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

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

Boilers

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

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 3.2:

CALEEMOD ANNUAL PROPOSED PROJECT OPERATIONS EMISSIONS MODEL OUTPUTS

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

Rancho La Habra - Project Development (Operations - Unmitigated)

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

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

1.2 Other Project Characteristics

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

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

Project Characteristics -

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

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

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

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Land Use Change -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	1.00
tblLandUse	LandUseSquareFeet	145,000.00	275,500.00
tblLandUse	LandUseSquareFeet	498,600.00	801,638.00
tblLandUse	LotAcreage	89.94	97.86
tblLandUse	Population	415.00	435.00
tblLandUse	Population	792.00	831.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	500.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleEF	HHD	0.39	0.03
tblVehicleEF	HHD	0.17	0.15

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

tblVehicleEF	HHD	0.05	7.1096e-007
tblVehicleEF	HHD	1.40	6.05
tblVehicleEF	HHD	1.30	0.68
tblVehicleEF	HHD	4.46	9.9764e-003
tblVehicleEF	HHD	3,712.33	976.34
tblVehicleEF	HHD	1,567.60	1,325.78
tblVehicleEF	HHD	14.46	0.08
tblVehicleEF	HHD	12.24	5.17
tblVehicleEF	HHD	1.64	2.36
tblVehicleEF	HHD	8.2750e-003	2.6957e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	9.1330e-007
tblVehicleEF	HHD	7.9170e-003	2.5791e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6670e-003	8.7591e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	8.3975e-007
tblVehicleEF	HHD	1.1800e-004	2.5844e-006
tblVehicleEF	HHD	4.7610e-003	1.0888e-004
tblVehicleEF	HHD	0.33	0.40
tblVehicleEF	HHD	9.2000e-005	1.8835e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.4000e-004	4.8309e-004
tblVehicleEF	HHD	0.08	3.7172e-006
tblVehicleEF	HHD	0.03	8.8967e-003

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

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.1700e-004	7.5037e-007
tblVehicleEF	HHD	1.1800e-004	2.5844e-006
tblVehicleEF	HHD	4.7610e-003	1.0888e-004
tblVehicleEF	HHD	0.41	0.47
tblVehicleEF	HHD	9.2000e-005	1.8835e-006
tblVehicleEF	HHD	0.26	0.18
tblVehicleEF	HHD	4.4000e-004	4.8309e-004
tblVehicleEF	HHD	0.09	4.0699e-006
tblVehicleEF	HHD	0.37	0.03
tblVehicleEF	HHD	0.17	0.15
tblVehicleEF	HHD	0.05	6.8287e-007
tblVehicleEF	HHD	1.02	5.97
tblVehicleEF	HHD	1.31	0.68
tblVehicleEF	HHD	4.25	9.5082e-003
tblVehicleEF	HHD	3,932.88	965.32
tblVehicleEF	HHD	1,567.60	1,325.78
tblVehicleEF	HHD	14.46	0.08
tblVehicleEF	HHD	12.63	4.94
tblVehicleEF	HHD	1.55	2.24
tblVehicleEF	HHD	6.9760e-003	2.3520e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	9.1330e-007
tblVehicleEF	HHD	6.6740e-003	2.2503e-003
tblVehicleEF	HHD	0.03	0.03

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tblVehicleEF	HHD	8.6670e-003	8.7591e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	8.3975e-007
tblVehicleEF	HHD	1.6800e-004	3.7475e-006
tblVehicleEF	HHD	4.8570e-003	1.1087e-004
tblVehicleEF	HHD	0.32	0.42
tblVehicleEF	HHD	1.2600e-004	2.7063e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.2300e-004	4.7071e-004
tblVehicleEF	HHD	0.08	3.5798e-006
tblVehicleEF	HHD	0.03	8.7940e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.1400e-004	7.4302e-007
tblVehicleEF	HHD	1.6800e-004	3.7475e-006
tblVehicleEF	HHD	4.8570e-003	1.1087e-004
tblVehicleEF	HHD	0.39	0.49
tblVehicleEF	HHD	1.2600e-004	2.7063e-006
tblVehicleEF	HHD	0.26	0.18
tblVehicleEF	HHD	4.2300e-004	4.7071e-004
tblVehicleEF	HHD	0.09	3.9195e-006
tblVehicleEF	HHD	0.42	0.02
tblVehicleEF	HHD	0.17	8.7798e-004
tblVehicleEF	HHD	0.06	7.1763e-007
tblVehicleEF	HHD	1.93	5.97
tblVehicleEF	HHD	1.30	0.21
tblVehicleEF	HHD	4.50	0.01
tblVehicleEF	HHD	3,407.76	956.71

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tblVehicleEF	HHD	1,567.60	1,219.26
tblVehicleEF	HHD	14.46	0.08
tblVehicleEF	HHD	11.69	5.28
tblVehicleEF	HHD	1.61	2.27
tblVehicleEF	HHD	0.01	2.8857e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	9.1330e-007
tblVehicleEF	HHD	9.6330e-003	2.7609e-003
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	8.6670e-003	8.4573e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	8.3975e-007
tblVehicleEF	HHD	1.1400e-004	2.6240e-006
tblVehicleEF	HHD	5.0300e-003	1.1860e-004
tblVehicleEF	HHD	0.36	0.37
tblVehicleEF	HHD	9.1000e-005	1.9265e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.8300e-004	5.2090e-004
tblVehicleEF	HHD	0.08	3.7490e-006
tblVehicleEF	HHD	0.03	9.0385e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.1800e-004	7.5177e-007
tblVehicleEF	HHD	1.1400e-004	2.6240e-006
tblVehicleEF	HHD	5.0300e-003	1.1860e-004
tblVehicleEF	HHD	0.44	0.42

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tblVehicleEF	HHD	9.1000e-005	1.9265e-006
tblVehicleEF	HHD	0.26	0.02
tblVehicleEF	HHD	4.8300e-004	5.2090e-004
tblVehicleEF	HHD	0.09	4.1047e-006
tblVehicleEF	LDA	2.7580e-003	1.4539e-003
tblVehicleEF	LDA	2.8090e-003	0.03
tblVehicleEF	LDA	0.43	0.49
tblVehicleEF	LDA	0.72	1.76
tblVehicleEF	LDA	212.92	225.86
tblVehicleEF	LDA	47.75	46.23
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.7100e-003	1.2970e-003
tblVehicleEF	LDA	2.1900e-003	1.5539e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5740e-003	1.1939e-003
tblVehicleEF	LDA	2.0130e-003	1.4288e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	6.9380e-003	5.0900e-003
tblVehicleEF	LDA	0.03	0.17
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.1310e-003	2.2342e-003
tblVehicleEF	LDA	4.8900e-004	4.5753e-004

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tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	0.01	7.3927e-003
tblVehicleEF	LDA	0.03	0.17
tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDA	2.9150e-003	1.5499e-003
tblVehicleEF	LDA	2.5300e-003	0.03
tblVehicleEF	LDA	0.46	0.54
tblVehicleEF	LDA	0.63	1.52
tblVehicleEF	LDA	221.83	235.06
tblVehicleEF	LDA	47.75	45.81
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.7100e-003	1.2970e-003
tblVehicleEF	LDA	2.1900e-003	1.5539e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5740e-003	1.1939e-003
tblVehicleEF	LDA	2.0130e-003	1.4288e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	7.3280e-003	5.3745e-003
tblVehicleEF	LDA	0.03	0.16
tblVehicleEF	LDA	0.03	0.13

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tblVehicleEF	LDA	2.2210e-003	2.3252e-003
tblVehicleEF	LDA	4.8800e-004	4.5329e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	7.8080e-003
tblVehicleEF	LDA	0.03	0.16
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	2.7050e-003	1.4238e-003
tblVehicleEF	LDA	2.8660e-003	0.04
tblVehicleEF	LDA	0.41	0.47
tblVehicleEF	LDA	0.74	1.81
tblVehicleEF	LDA	209.63	222.46
tblVehicleEF	LDA	47.75	46.33
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.7100e-003	1.2970e-003
tblVehicleEF	LDA	2.1900e-003	1.5539e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5740e-003	1.1939e-003
tblVehicleEF	LDA	2.0130e-003	1.4288e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	6.8070e-003	4.9944e-003

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tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.0980e-003	2.2006e-003
tblVehicleEF	LDA	4.9000e-004	4.5846e-004
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	9.8910e-003	7.2532e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDT1	5.9740e-003	3.2242e-003
tblVehicleEF	LDT1	7.9960e-003	0.05
tblVehicleEF	LDT1	0.78	0.78
tblVehicleEF	LDT1	1.69	1.92
tblVehicleEF	LDT1	272.89	271.82
tblVehicleEF	LDT1	61.96	56.50
tblVehicleEF	LDT1	0.07	0.05
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1560e-003	1.6205e-003
tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	1.9830e-003	1.4905e-003
tblVehicleEF	LDT1	2.5640e-003	1.7819e-003
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.19	0.14

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tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.13	0.48
tblVehicleEF	LDT1	0.11	0.22
tblVehicleEF	LDT1	2.7370e-003	2.6899e-003
tblVehicleEF	LDT1	6.4900e-004	5.5911e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.48
tblVehicleEF	LDT1	0.12	0.24
tblVehicleEF	LDT1	6.2860e-003	3.4156e-003
tblVehicleEF	LDT1	7.1800e-003	0.04
tblVehicleEF	LDT1	0.85	0.85
tblVehicleEF	LDT1	1.46	1.66
tblVehicleEF	LDT1	283.94	281.33
tblVehicleEF	LDT1	61.96	56.01
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1560e-003	1.6205e-003
tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	1.9830e-003	1.4905e-003
tblVehicleEF	LDT1	2.5640e-003	1.7819e-003

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tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.12	0.45
tblVehicleEF	LDT1	0.10	0.20
tblVehicleEF	LDT1	2.8480e-003	2.7839e-003
tblVehicleEF	LDT1	6.4500e-004	5.5423e-004
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.12	0.45
tblVehicleEF	LDT1	0.11	0.22
tblVehicleEF	LDT1	5.8680e-003	3.1636e-003
tblVehicleEF	LDT1	8.1630e-003	0.05
tblVehicleEF	LDT1	0.76	0.76
tblVehicleEF	LDT1	1.74	1.98
tblVehicleEF	LDT1	268.81	268.31
tblVehicleEF	LDT1	61.96	56.61
tblVehicleEF	LDT1	0.07	0.05
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1560e-003	1.6205e-003
tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003

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tblVehicleEF	LDT1	1.9830e-003	1.4905e-003
tblVehicleEF	LDT1	2.5640e-003	1.7819e-003
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.15	0.57
tblVehicleEF	LDT1	0.11	0.23
tblVehicleEF	LDT1	2.6960e-003	2.6552e-003
tblVehicleEF	LDT1	6.4900e-004	5.6018e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.15	0.57
tblVehicleEF	LDT1	0.12	0.25
tblVehicleEF	LDT2	3.9670e-003	2.4814e-003
tblVehicleEF	LDT2	3.9510e-003	0.05
tblVehicleEF	LDT2	0.58	0.66
tblVehicleEF	LDT2	0.97	2.27
tblVehicleEF	LDT2	305.47	284.99
tblVehicleEF	LDT2	68.50	59.63
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8320e-003	1.3688e-003
tblVehicleEF	LDT2	2.3500e-003	1.5746e-003

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tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4478e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	9.8490e-003	9.4619e-003
tblVehicleEF	LDT2	0.05	0.35
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	3.0580e-003	2.8192e-003
tblVehicleEF	LDT2	7.0100e-004	5.9004e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.35
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LDT2	4.1900e-003	2.6377e-003
tblVehicleEF	LDT2	3.5660e-003	0.04
tblVehicleEF	LDT2	0.63	0.72
tblVehicleEF	LDT2	0.84	1.96
tblVehicleEF	LDT2	317.98	294.00
tblVehicleEF	LDT2	68.50	59.06
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003

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tblVehicleEF	LDT2	1.8320e-003	1.3688e-003
tblVehicleEF	LDT2	2.3500e-003	1.5746e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4478e-003
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.01	9.9749e-003
tblVehicleEF	LDT2	0.05	0.33
tblVehicleEF	LDT2	0.05	0.19
tblVehicleEF	LDT2	3.1840e-003	2.9084e-003
tblVehicleEF	LDT2	6.9900e-004	5.8443e-004
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.05	0.33
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	3.8920e-003	2.4323e-003
tblVehicleEF	LDT2	4.0310e-003	0.05
tblVehicleEF	LDT2	0.56	0.64
tblVehicleEF	LDT2	0.99	2.34
tblVehicleEF	LDT2	300.86	281.66
tblVehicleEF	LDT2	68.50	59.75
tblVehicleEF	LDT2	0.04	0.04

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tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8320e-003	1.3688e-003
tblVehicleEF	LDT2	2.3500e-003	1.5746e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4478e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	9.6640e-003	9.2897e-003
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	3.0120e-003	2.7863e-003
tblVehicleEF	LDT2	7.0100e-004	5.9127e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LHD1	4.4070e-003	4.8055e-003
tblVehicleEF	LHD1	5.8690e-003	3.0275e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.48	0.34

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tblVehicleEF	LHD1	1.81	0.90
tblVehicleEF	LHD1	9.05	8.70
tblVehicleEF	LHD1	569.17	608.55
tblVehicleEF	LHD1	28.18	10.77
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.79	0.46
tblVehicleEF	LHD1	8.7400e-004	8.8595e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8780e-003
tblVehicleEF	LHD1	8.7310e-003	5.8755e-003
tblVehicleEF	LHD1	6.9400e-004	2.0728e-004
tblVehicleEF	LHD1	8.3600e-004	8.4762e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5920e-003	2.4695e-003
tblVehicleEF	LHD1	8.3350e-003	5.5985e-003
tblVehicleEF	LHD1	6.3800e-004	1.9059e-004
tblVehicleEF	LHD1	2.2360e-003	1.6924e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4970e-003	1.1453e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.25	0.37
tblVehicleEF	LHD1	0.18	0.05
tblVehicleEF	LHD1	9.0000e-005	8.4342e-005
tblVehicleEF	LHD1	5.5660e-003	5.9307e-003
tblVehicleEF	LHD1	3.1600e-004	1.0657e-004
tblVehicleEF	LHD1	2.2360e-003	1.6924e-003

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tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.4970e-003	1.1453e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.25	0.37
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD1	4.4070e-003	4.8154e-003
tblVehicleEF	LHD1	5.9560e-003	3.0669e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.49	0.35
tblVehicleEF	LHD1	1.73	0.86
tblVehicleEF	LHD1	9.05	8.70
tblVehicleEF	LHD1	569.17	608.55
tblVehicleEF	LHD1	28.18	10.71
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.75	0.43
tblVehicleEF	LHD1	8.7400e-004	8.8595e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8780e-003
tblVehicleEF	LHD1	8.7310e-003	5.8755e-003
tblVehicleEF	LHD1	6.9400e-004	2.0728e-004
tblVehicleEF	LHD1	8.3600e-004	8.4762e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5920e-003	2.4695e-003
tblVehicleEF	LHD1	8.3350e-003	5.5985e-003
tblVehicleEF	LHD1	6.3800e-004	1.9059e-004

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

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tblVehicleEF	LHD1	0.78	0.45
tblVehicleEF	LHD1	8.7400e-004	8.8595e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8780e-003
tblVehicleEF	LHD1	8.7310e-003	5.8755e-003
tblVehicleEF	LHD1	6.9400e-004	2.0728e-004
tblVehicleEF	LHD1	8.3600e-004	8.4762e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5920e-003	2.4695e-003
tblVehicleEF	LHD1	8.3350e-003	5.5985e-003
tblVehicleEF	LHD1	6.3800e-004	1.9059e-004
tblVehicleEF	LHD1	2.2730e-003	1.7163e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4980e-003	1.1477e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.27	0.40
tblVehicleEF	LHD1	0.18	0.05
tblVehicleEF	LHD1	9.0000e-005	8.4342e-005
tblVehicleEF	LHD1	5.5660e-003	5.9307e-003
tblVehicleEF	LHD1	3.1600e-004	1.0666e-004
tblVehicleEF	LHD1	2.2730e-003	1.7163e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.4980e-003	1.1477e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.27	0.40

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tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD2	3.1600e-003	3.4118e-003
tblVehicleEF	LHD2	2.5500e-003	2.5031e-003
tblVehicleEF	LHD2	5.1240e-003	7.7083e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	1.00	0.59
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89
tblVehicleEF	LHD2	24.66	8.32
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.39	0.52
tblVehicleEF	LHD2	1.1000e-003	1.3293e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4584e-003
tblVehicleEF	LHD2	3.7900e-004	1.1948e-004
tblVehicleEF	LHD2	1.0520e-003	1.2718e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6850e-003	2.6627e-003
tblVehicleEF	LHD2	7.2730e-003	9.0361e-003
tblVehicleEF	LHD2	3.4900e-004	1.0985e-004
tblVehicleEF	LHD2	7.8600e-004	1.0733e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.7600e-004	7.5924e-004
tblVehicleEF	LHD2	0.04	0.04

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tblVehicleEF	LHD2	0.06	0.21
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2702e-004
tblVehicleEF	LHD2	5.7380e-003	5.9622e-003
tblVehicleEF	LHD2	2.6400e-004	8.2343e-005
tblVehicleEF	LHD2	7.8600e-004	1.0733e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.7600e-004	7.5924e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.21
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.1600e-003	3.4188e-003
tblVehicleEF	LHD2	2.5710e-003	2.5214e-003
tblVehicleEF	LHD2	4.9820e-003	7.4668e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	0.96	0.57
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89
tblVehicleEF	LHD2	24.66	8.28
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.36	0.49
tblVehicleEF	LHD2	1.1000e-003	1.3293e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4584e-003

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tblVehicleEF	LHD2	3.7900e-004	1.1948e-004
tblVehicleEF	LHD2	1.0520e-003	1.2718e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6850e-003	2.6627e-003
tblVehicleEF	LHD2	7.2730e-003	9.0361e-003
tblVehicleEF	LHD2	3.4900e-004	1.0985e-004
tblVehicleEF	LHD2	1.1030e-003	1.5037e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7500e-004	1.0231e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2702e-004
tblVehicleEF	LHD2	5.7380e-003	5.9622e-003
tblVehicleEF	LHD2	2.6300e-004	8.1932e-005
tblVehicleEF	LHD2	1.1030e-003	1.5037e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7500e-004	1.0231e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	3.1600e-003	3.4105e-003
tblVehicleEF	LHD2	2.5450e-003	2.4983e-003
tblVehicleEF	LHD2	5.1530e-003	7.7580e-003
tblVehicleEF	LHD2	0.12	0.14

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tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	1.01	0.60
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89
tblVehicleEF	LHD2	24.66	8.33
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.38	0.51
tblVehicleEF	LHD2	1.1000e-003	1.3293e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4584e-003
tblVehicleEF	LHD2	3.7900e-004	1.1948e-004
tblVehicleEF	LHD2	1.0520e-003	1.2718e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6850e-003	2.6627e-003
tblVehicleEF	LHD2	7.2730e-003	9.0361e-003
tblVehicleEF	LHD2	3.4900e-004	1.0985e-004
tblVehicleEF	LHD2	7.7000e-004	1.0625e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.6800e-004	7.4780e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.23
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2702e-004
tblVehicleEF	LHD2	5.7380e-003	5.9622e-003
tblVehicleEF	LHD2	2.6400e-004	8.2408e-005

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tblVehicleEF	LHD2	7.7000e-004	1.0625e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.6800e-004	7.4780e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.23
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	17.64	17.81
tblVehicleEF	MCY	9.65	8.54
tblVehicleEF	MCY	179.17	214.60
tblVehicleEF	MCY	43.54	58.63
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3120e-003	2.2964e-003
tblVehicleEF	MCY	3.4500e-003	2.9776e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1580e-003	2.1432e-003
tblVehicleEF	MCY	3.2350e-003	2.7922e-003
tblVehicleEF	MCY	1.12	1.14
tblVehicleEF	MCY	0.64	0.66
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	2.32	2.33
tblVehicleEF	MCY	0.57	1.70

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tblVehicleEF	MCY	2.00	1.78
tblVehicleEF	MCY	2.1500e-003	2.1237e-003
tblVehicleEF	MCY	6.5200e-004	5.8022e-004
tblVehicleEF	MCY	1.12	1.14
tblVehicleEF	MCY	0.64	0.66
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	2.90	2.91
tblVehicleEF	MCY	0.57	1.70
tblVehicleEF	MCY	2.18	1.93
tblVehicleEF	MCY	0.48	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.03	17.19
tblVehicleEF	MCY	8.86	7.81
tblVehicleEF	MCY	179.17	213.43
tblVehicleEF	MCY	43.54	56.86
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3120e-003	2.2964e-003
tblVehicleEF	MCY	3.4500e-003	2.9776e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1580e-003	2.1432e-003
tblVehicleEF	MCY	3.2350e-003	2.7922e-003
tblVehicleEF	MCY	1.68	1.72
tblVehicleEF	MCY	0.68	0.71
tblVehicleEF	MCY	1.07	1.09

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tblVehicleEF	MCY	2.27	2.28
tblVehicleEF	MCY	0.53	1.59
tblVehicleEF	MCY	1.81	1.59
tblVehicleEF	MCY	2.1390e-003	2.1121e-003
tblVehicleEF	MCY	6.3300e-004	5.6267e-004
tblVehicleEF	MCY	1.68	1.72
tblVehicleEF	MCY	0.68	0.71
tblVehicleEF	MCY	1.07	1.09
tblVehicleEF	MCY	2.84	2.85
tblVehicleEF	MCY	0.53	1.59
tblVehicleEF	MCY	1.97	1.73
tblVehicleEF	MCY	0.50	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	17.73	17.90
tblVehicleEF	MCY	9.78	8.67
tblVehicleEF	MCY	179.17	214.78
tblVehicleEF	MCY	43.54	58.95
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3120e-003	2.2964e-003
tblVehicleEF	MCY	3.4500e-003	2.9776e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1580e-003	2.1432e-003
tblVehicleEF	MCY	3.2350e-003	2.7922e-003
tblVehicleEF	MCY	1.24	1.27

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tblVehicleEF	MCY	0.81	0.84
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.33	2.34
tblVehicleEF	MCY	0.66	1.98
tblVehicleEF	MCY	2.04	1.81
tblVehicleEF	MCY	2.1520e-003	2.1254e-003
tblVehicleEF	MCY	6.5500e-004	5.8338e-004
tblVehicleEF	MCY	1.24	1.27
tblVehicleEF	MCY	0.81	0.84
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.91	2.92
tblVehicleEF	MCY	0.66	1.98
tblVehicleEF	MCY	2.22	1.97
tblVehicleEF	MDV	6.8660e-003	2.9640e-003
tblVehicleEF	MDV	8.3060e-003	0.06
tblVehicleEF	MDV	0.83	0.71
tblVehicleEF	MDV	1.63	2.44
tblVehicleEF	MDV	419.30	353.65
tblVehicleEF	MDV	92.03	72.42
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8480e-003	1.4199e-003
tblVehicleEF	MDV	2.2760e-003	1.5902e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7020e-003	1.3092e-003

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

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tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7020e-003	1.3092e-003
tblVehicleEF	MDV	2.0930e-003	1.4622e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.10	0.23
tblVehicleEF	MDV	4.3620e-003	3.5872e-003
tblVehicleEF	MDV	9.4400e-004	7.1049e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.11	0.25
tblVehicleEF	MDV	6.7380e-003	2.9054e-003
tblVehicleEF	MDV	8.4750e-003	0.06
tblVehicleEF	MDV	0.80	0.69
tblVehicleEF	MDV	1.68	2.52
tblVehicleEF	MDV	413.15	350.23
tblVehicleEF	MDV	92.03	72.55
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8480e-003	1.4199e-003

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tblVehicleEF	MDV	2.2760e-003	1.5902e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7020e-003	1.3092e-003
tblVehicleEF	MDV	2.0930e-003	1.4622e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.14	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.10	0.43
tblVehicleEF	MDV	0.11	0.26
tblVehicleEF	MDV	4.1330e-003	3.4616e-003
tblVehicleEF	MDV	9.4900e-004	7.1797e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.14	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.10	0.43
tblVehicleEF	MDV	0.13	0.29
tblVehicleEF	MH	0.01	3.0182e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.98	0.26
tblVehicleEF	MH	4.09	0.00
tblVehicleEF	MH	1,088.87	926.29
tblVehicleEF	MH	56.38	0.00
tblVehicleEF	MH	1.02	3.30
tblVehicleEF	MH	0.13	0.13

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tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.08
tblVehicleEF	MH	8.7000e-004	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2370e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	8.0000e-004	0.00
tblVehicleEF	MH	0.66	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.24	0.00
tblVehicleEF	MH	0.01	8.7567e-003
tblVehicleEF	MH	6.3500e-004	0.00
tblVehicleEF	MH	0.66	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.01	0.00
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tblVehicleEF	MH	0.01	3.0182e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.01	0.26
tblVehicleEF	MH	3.88	0.00
tblVehicleEF	MH	1,088.87	926.29
tblVehicleEF	MH	56.38	0.00

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tblVehicleEF	MH	0.95	3.12
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.08
tblVehicleEF	MH	8.7000e-004	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2370e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	8.0000e-004	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.23	0.00
tblVehicleEF	MH	0.01	8.7567e-003
tblVehicleEF	MH	6.3100e-004	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.25	0.00
tblVehicleEF	MH	0.01	3.0182e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.98	0.26
tblVehicleEF	MH	4.12	0.00

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tblVehicleEF	MH	1,088.87	926.29
tblVehicleEF	MH	56.38	0.00
tblVehicleEF	MH	1.00	3.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.08
tblVehicleEF	MH	8.7000e-004	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2370e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	8.0000e-004	0.00
tblVehicleEF	MH	0.70	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.05	0.06
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tblVehicleEF	MH	0.24	0.00
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tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.27	0.00
tblVehicleEF	MHD	0.02	4.3061e-003
tblVehicleEF	MHD	2.3010e-003	9.7878e-004

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tblVehicleEF	MHD	0.04	9.9220e-003
tblVehicleEF	MHD	0.31	0.37
tblVehicleEF	MHD	0.22	0.14
tblVehicleEF	MHD	3.97	1.01
tblVehicleEF	MHD	147.33	51.57
tblVehicleEF	MHD	1,116.08	952.09
tblVehicleEF	MHD	54.11	10.89
tblVehicleEF	MHD	0.38	0.24
tblVehicleEF	MHD	0.66	0.97
tblVehicleEF	MHD	5.7000e-005	1.3672e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8320e-003	6.2526e-003
tblVehicleEF	MHD	6.5400e-004	1.0428e-004
tblVehicleEF	MHD	5.5000e-005	1.3080e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7070e-003	5.9771e-003
tblVehicleEF	MHD	6.0200e-004	9.5883e-005
tblVehicleEF	MHD	8.3800e-004	4.4901e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.0600e-004	3.3904e-004
tblVehicleEF	MHD	0.03	9.2412e-003
tblVehicleEF	MHD	0.01	0.10
tblVehicleEF	MHD	0.25	0.05
tblVehicleEF	MHD	1.4160e-003	4.9079e-004

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tblVehicleEF	MHD	0.01	9.0982e-003
tblVehicleEF	MHD	6.1100e-004	1.0774e-004
tblVehicleEF	MHD	8.3800e-004	4.4901e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	6.0600e-004	3.3904e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.01	0.10
tblVehicleEF	MHD	0.27	0.05
tblVehicleEF	MHD	0.01	4.0869e-003
tblVehicleEF	MHD	2.3200e-003	9.9519e-004
tblVehicleEF	MHD	0.04	9.5988e-003
tblVehicleEF	MHD	0.23	0.31
tblVehicleEF	MHD	0.22	0.14
tblVehicleEF	MHD	3.79	0.96
tblVehicleEF	MHD	156.06	51.42
tblVehicleEF	MHD	1,116.08	952.09
tblVehicleEF	MHD	54.11	10.81
tblVehicleEF	MHD	0.39	0.23
tblVehicleEF	MHD	0.63	0.92
tblVehicleEF	MHD	4.8000e-005	1.1758e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8320e-003	6.2526e-003
tblVehicleEF	MHD	6.5400e-004	1.0428e-004
tblVehicleEF	MHD	4.6000e-005	1.1249e-004
tblVehicleEF	MHD	0.06	0.06

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tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7070e-003	5.9771e-003
tblVehicleEF	MHD	6.0200e-004	9.5883e-005
tblVehicleEF	MHD	1.1800e-003	6.3266e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	8.2200e-004	4.5743e-004
tblVehicleEF	MHD	0.03	9.3047e-003
tblVehicleEF	MHD	0.01	0.09
tblVehicleEF	MHD	0.24	0.05
tblVehicleEF	MHD	1.4990e-003	4.8956e-004
tblVehicleEF	MHD	0.01	9.0982e-003
tblVehicleEF	MHD	6.0700e-004	1.0694e-004
tblVehicleEF	MHD	1.1800e-003	6.3266e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	8.2200e-004	4.5743e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.01	0.09
tblVehicleEF	MHD	0.26	0.05
tblVehicleEF	MHD	0.02	4.6237e-003
tblVehicleEF	MHD	2.2950e-003	9.7301e-004
tblVehicleEF	MHD	0.04	9.9740e-003
tblVehicleEF	MHD	0.43	0.46
tblVehicleEF	MHD	0.22	0.14
tblVehicleEF	MHD	4.01	1.01
tblVehicleEF	MHD	135.27	51.76

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tblVehicleEF	MHD	1,116.08	952.08
tblVehicleEF	MHD	54.11	10.90
tblVehicleEF	MHD	0.36	0.25
tblVehicleEF	MHD	0.65	0.95
tblVehicleEF	MHD	7.0000e-005	1.6315e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8320e-003	6.2526e-003
tblVehicleEF	MHD	6.5400e-004	1.0428e-004
tblVehicleEF	MHD	6.7000e-005	1.5609e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7070e-003	5.9771e-003
tblVehicleEF	MHD	6.0200e-004	9.5883e-005
tblVehicleEF	MHD	8.2900e-004	4.3473e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.0300e-004	3.3394e-004
tblVehicleEF	MHD	0.03	9.2222e-003
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.25	0.05
tblVehicleEF	MHD	1.3030e-003	4.9243e-004
tblVehicleEF	MHD	0.01	9.0981e-003
tblVehicleEF	MHD	6.1100e-004	1.0789e-004
tblVehicleEF	MHD	8.2900e-004	4.3473e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03

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tblVehicleEF	MHD	6.0300e-004	3.3394e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.27	0.05
tblVehicleEF	OBUS	0.01	8.6081e-003
tblVehicleEF	OBUS	4.4900e-003	3.4710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.58
tblVehicleEF	OBUS	0.33	0.42
tblVehicleEF	OBUS	4.51	2.12
tblVehicleEF	OBUS	79.00	80.51
tblVehicleEF	OBUS	1,197.99	1,276.22
tblVehicleEF	OBUS	68.49	18.46
tblVehicleEF	OBUS	0.16	0.32
tblVehicleEF	OBUS	0.55	0.95
tblVehicleEF	OBUS	1.5000e-005	1.0732e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.5110e-003	6.5795e-003
tblVehicleEF	OBUS	9.3700e-004	2.0266e-004
tblVehicleEF	OBUS	1.4000e-005	1.0268e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.3820e-003	6.2779e-003
tblVehicleEF	OBUS	8.6200e-004	1.8634e-004
tblVehicleEF	OBUS	1.3340e-003	1.6535e-003
tblVehicleEF	OBUS	0.02	0.02

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tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.4900e-004	9.1533e-004
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.29	0.10
tblVehicleEF	OBUS	7.6600e-004	7.6663e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6400e-004	1.8266e-004
tblVehicleEF	OBUS	1.3340e-003	1.6535e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	7.4900e-004	9.1533e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	0.01	8.6902e-003
tblVehicleEF	OBUS	4.5620e-003	3.5422e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.58
tblVehicleEF	OBUS	0.34	0.43
tblVehicleEF	OBUS	4.28	2.01
tblVehicleEF	OBUS	82.70	79.60
tblVehicleEF	OBUS	1,197.99	1,276.23
tblVehicleEF	OBUS	68.49	18.27
tblVehicleEF	OBUS	0.16	0.30
tblVehicleEF	OBUS	0.52	0.89
tblVehicleEF	OBUS	1.2000e-005	9.5363e-005

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tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.5110e-003	6.5795e-003
tblVehicleEF	OBUS	9.3700e-004	2.0266e-004
tblVehicleEF	OBUS	1.2000e-005	9.1238e-005
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.3820e-003	6.2779e-003
tblVehicleEF	OBUS	8.6200e-004	1.8634e-004
tblVehicleEF	OBUS	1.8370e-003	2.2633e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.0190e-003	1.2350e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.27	0.10
tblVehicleEF	OBUS	8.0100e-004	7.5810e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6000e-004	1.8084e-004
tblVehicleEF	OBUS	1.8370e-003	2.2633e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.0190e-003	1.2350e-003
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.30	0.11
tblVehicleEF	OBUS	0.01	8.5167e-003

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tblVehicleEF	OBUS	4.4690e-003	3.4503e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.59
tblVehicleEF	OBUS	0.33	0.42
tblVehicleEF	OBUS	4.54	2.13
tblVehicleEF	OBUS	73.90	81.75
tblVehicleEF	OBUS	1,197.99	1,276.22
tblVehicleEF	OBUS	68.49	18.49
tblVehicleEF	OBUS	0.15	0.34
tblVehicleEF	OBUS	0.54	0.93
tblVehicleEF	OBUS	1.8000e-005	1.2384e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.5110e-003	6.5795e-003
tblVehicleEF	OBUS	9.3700e-004	2.0266e-004
tblVehicleEF	OBUS	1.7000e-005	1.1848e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.3820e-003	6.2779e-003
tblVehicleEF	OBUS	8.6200e-004	1.8634e-004
tblVehicleEF	OBUS	1.3260e-003	1.6532e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.3600e-004	9.0323e-004
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.24
tblVehicleEF	OBUS	0.29	0.10

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tblVehicleEF	OBUS	7.1700e-004	7.7840e-004
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tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.3600e-004	9.0323e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.24
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	SBUS	0.82	0.10
tblVehicleEF	SBUS	0.01	8.1395e-003
tblVehicleEF	SBUS	0.06	8.9683e-003
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tblVehicleEF	SBUS	0.77	0.76
tblVehicleEF	SBUS	8.04	1.19
tblVehicleEF	SBUS	1,056.06	358.73
tblVehicleEF	SBUS	1,050.26	1,039.84
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0880e-003	8.8247e-005
tblVehicleEF	SBUS	4.7500e-003	3.3478e-003

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tblVehicleEF	SBUS	0.32	0.32
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tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0000e-003	8.1140e-005
tblVehicleEF	SBUS	3.5410e-003	1.3075e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.04	0.44
tblVehicleEF	SBUS	2.1010e-003	7.7722e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.43	0.05
tblVehicleEF	SBUS	0.01	3.4332e-003
tblVehicleEF	SBUS	0.01	9.9762e-003
tblVehicleEF	SBUS	7.4400e-004	7.1436e-005
tblVehicleEF	SBUS	3.5410e-003	1.3075e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.51	0.63
tblVehicleEF	SBUS	2.1010e-003	7.7722e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.47	0.06
tblVehicleEF	SBUS	0.82	0.10
tblVehicleEF	SBUS	0.01	8.2398e-003
tblVehicleEF	SBUS	0.06	8.0601e-003
tblVehicleEF	SBUS	8.68	3.67
tblVehicleEF	SBUS	0.78	0.77
tblVehicleEF	SBUS	6.64	0.98

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tblVehicleEF	SBUS	1,101.09	366.34
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tblVehicleEF	SBUS	6.66	3.25
tblVehicleEF	SBUS	2.72	4.08
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tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0880e-003	8.8247e-005
tblVehicleEF	SBUS	4.0050e-003	2.8288e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6390e-003	2.5939e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0000e-003	8.1140e-005
tblVehicleEF	SBUS	4.8740e-003	1.7965e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.04	0.44
tblVehicleEF	SBUS	2.8420e-003	1.0457e-003
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.01	3.5052e-003
tblVehicleEF	SBUS	0.01	9.9764e-003
tblVehicleEF	SBUS	7.2000e-004	6.8013e-005
tblVehicleEF	SBUS	4.8740e-003	1.7965e-003
tblVehicleEF	SBUS	0.03	0.01

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tblVehicleEF	SBUS	1.50	0.63
tblVehicleEF	SBUS	2.8420e-003	1.0457e-003
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.42	0.05
tblVehicleEF	SBUS	0.82	0.10
tblVehicleEF	SBUS	0.01	8.1113e-003
tblVehicleEF	SBUS	0.07	9.0985e-003
tblVehicleEF	SBUS	8.88	3.75
tblVehicleEF	SBUS	0.77	0.75
tblVehicleEF	SBUS	8.17	1.21
tblVehicleEF	SBUS	993.88	348.22
tblVehicleEF	SBUS	1,050.26	1,039.83
tblVehicleEF	SBUS	60.45	7.25
tblVehicleEF	SBUS	6.17	3.08
tblVehicleEF	SBUS	2.83	4.25
tblVehicleEF	SBUS	6.0420e-003	4.2484e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0880e-003	8.8247e-005
tblVehicleEF	SBUS	5.7800e-003	4.0646e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6390e-003	2.5939e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0000e-003	8.1140e-005
tblVehicleEF	SBUS	3.4160e-003	1.2549e-003

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

tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.04	0.44
tblVehicleEF	SBUS	2.0430e-003	7.5317e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.44	0.05
tblVehicleEF	SBUS	9.7890e-003	3.3340e-003
tblVehicleEF	SBUS	0.01	9.9762e-003
tblVehicleEF	SBUS	7.4600e-004	7.1764e-005
tblVehicleEF	SBUS	3.4160e-003	1.2549e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.51	0.63
tblVehicleEF	SBUS	2.0430e-003	7.5317e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.48	0.06
tblVehicleEF	UBUS	1.41	5.27
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	6.68	41.12
tblVehicleEF	UBUS	10.95	1.81
tblVehicleEF	UBUS	1,771.11	2,017.13
tblVehicleEF	UBUS	140.16	19.55
tblVehicleEF	UBUS	2.86	0.45
tblVehicleEF	UBUS	0.51	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.02	3.1354e-003
tblVehicleEF	UBUS	1.3470e-003	2.0251e-004

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

tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5853e-003
tblVehicleEF	UBUS	0.02	2.9839e-003
tblVehicleEF	UBUS	1.2390e-003	1.8620e-004
tblVehicleEF	UBUS	5.0820e-003	7.8097e-004
tblVehicleEF	UBUS	0.08	7.2003e-003
tblVehicleEF	UBUS	3.3330e-003	4.7193e-004
tblVehicleEF	UBUS	0.27	0.08
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	0.88	0.10
tblVehicleEF	UBUS	8.4160e-003	3.6407e-003
tblVehicleEF	UBUS	1.6000e-003	1.9349e-004
tblVehicleEF	UBUS	5.0820e-003	7.8097e-004
tblVehicleEF	UBUS	0.08	7.2003e-003
tblVehicleEF	UBUS	3.3330e-003	4.7193e-004
tblVehicleEF	UBUS	1.71	5.38
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	0.97	0.11
tblVehicleEF	UBUS	1.41	5.27
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	6.71	41.12
tblVehicleEF	UBUS	9.70	1.61
tblVehicleEF	UBUS	1,771.11	2,017.13
tblVehicleEF	UBUS	140.16	19.20
tblVehicleEF	UBUS	2.69	0.44
tblVehicleEF	UBUS	0.51	0.08
tblVehicleEF	UBUS	0.01	0.03

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

tblVehicleEF	UBUS	0.02	3.1354e-003
tblVehicleEF	UBUS	1.3470e-003	2.0251e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5853e-003
tblVehicleEF	UBUS	0.02	2.9839e-003
tblVehicleEF	UBUS	1.2390e-003	1.8620e-004
tblVehicleEF	UBUS	6.8520e-003	1.0869e-003
tblVehicleEF	UBUS	0.08	7.5211e-003
tblVehicleEF	UBUS	4.4540e-003	6.7240e-004
tblVehicleEF	UBUS	0.27	0.08
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.82	0.10
tblVehicleEF	UBUS	8.4160e-003	3.6407e-003
tblVehicleEF	UBUS	1.5790e-003	1.9002e-004
tblVehicleEF	UBUS	6.8520e-003	1.0869e-003
tblVehicleEF	UBUS	0.08	7.5211e-003
tblVehicleEF	UBUS	4.4540e-003	6.7240e-004
tblVehicleEF	UBUS	1.71	5.38
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.90	0.11
tblVehicleEF	UBUS	1.41	5.27
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	6.67	41.12
tblVehicleEF	UBUS	11.17	1.85
tblVehicleEF	UBUS	1,771.11	2,017.13
tblVehicleEF	UBUS	140.16	19.62
tblVehicleEF	UBUS	2.81	0.44

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

tblVehicleEF	UBUS	0.51	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.02	3.1354e-003
tblVehicleEF	UBUS	1.3470e-003	2.0251e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5853e-003
tblVehicleEF	UBUS	0.02	2.9839e-003
tblVehicleEF	UBUS	1.2390e-003	1.8620e-004
tblVehicleEF	UBUS	5.4900e-003	8.2497e-004
tblVehicleEF	UBUS	0.09	8.0659e-003
tblVehicleEF	UBUS	3.3790e-003	4.6844e-004
tblVehicleEF	UBUS	0.27	0.08
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	0.90	0.10
tblVehicleEF	UBUS	8.4160e-003	3.6407e-003
tblVehicleEF	UBUS	1.6040e-003	1.9411e-004
tblVehicleEF	UBUS	5.4900e-003	8.2497e-004
tblVehicleEF	UBUS	0.09	8.0659e-003
tblVehicleEF	UBUS	3.3790e-003	4.6844e-004
tblVehicleEF	UBUS	1.71	5.38
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	0.98	0.11
tblVehicleTrips	ST_TR	22.75	5.00
tblVehicleTrips	ST_TR	5.67	8.14
tblVehicleTrips	ST_TR	20.87	9.10
tblVehicleTrips	ST_TR	158.37	122.40
tblVehicleTrips	ST_TR	9.91	9.54

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

tblVehicleTrips	ST_TR	177.59	177.62
tblVehicleTrips	SU_TR	16.74	5.00
tblVehicleTrips	SU_TR	4.84	6.28
tblVehicleTrips	SU_TR	26.73	13.60
tblVehicleTrips	SU_TR	131.84	142.64
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	SU_TR	166.44	166.47
tblVehicleTrips	WD_TR	1.89	5.00
tblVehicleTrips	WD_TR	5.81	7.32
tblVehicleTrips	WD_TR	32.93	28.82
tblVehicleTrips	WD_TR	127.15	112.18
tblVehicleTrips	WD_TR	9.52	9.44
tblVehicleTrips	WD_TR	102.24	106.78

2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][illegible]

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

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.9326	0.1595	7.0315	7.0700e-003		0.4271	0.4271		0.4271	0.4271	44.8245	93.2481	138.0726	0.1405	3.0400e-003	142.4914
Energy	0.0674	0.5841	0.3053	3.6800e-003		0.0466	0.0466		0.0466	0.0466	0.0000	1,905.4140	1,905.4140	0.0639	0.0228	1,913.8079
Mobile	2.0852	4.6587	19.0470	0.0589	6.6127	0.0424	6.6551	1.7689	0.0395	1.8083	0.0000	5,516.8546	5,516.8546	0.3471	0.0000	5,525.5316
Stationary	0.0205	0.0573	0.0523	1.0000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	9.5199	9.5199	1.3300e-003	0.0000	9.5533
Waste						0.0000	0.0000		0.0000	0.0000	142.5321	0.0000	142.5321	8.4234	0.0000	353.1173
Water						0.0000	0.0000		0.0000	0.0000	10.3847	378.3254	388.7101	1.0822	0.0284	424.2340
Total	8.1058	5.4597	26.4361	0.0697	6.6127	0.5190	7.1317	1.7689	0.5162	2.2850	197.7413	7,903.3619	8,101.1033	10.0585	0.0543	8,368.7355

Rancho La Habra - Project Development (Operations - Unmitigated) - Orange 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	5.9326	0.1595	7.0315	7.0700e-003		0.4271	0.4271		0.4271	0.4271	44.8245	93.2481	138.0726	0.1405	3.0400e-003	142.4914
Energy	0.0674	0.5841	0.3053	3.6800e-003		0.0466	0.0466		0.0466	0.0466	0.0000	1,905.4140	1,905.4140	0.0639	0.0228	1,913.8079
Mobile	2.0852	4.6587	19.0470	0.0589	6.6127	0.0424	6.6551	1.7689	0.0395	1.8083	0.0000	5,516.8546	5,516.8546	0.3471	0.0000	5,525.5316
Stationary	0.0205	0.0573	0.0523	1.0000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	9.5199	9.5199	1.3300e-003	0.0000	9.5533
Waste						0.0000	0.0000		0.0000	0.0000	142.5321	0.0000	142.5321	8.4234	0.0000	353.1173
Water						0.0000	0.0000		0.0000	0.0000	10.3847	378.3254	388.7101	1.0822	0.0284	424.2340
Total	8.1058	5.4597	26.4361	0.0697	6.6127	0.5190	7.1317	1.7689	0.5162	2.2850	197.7413	7,903.3619	8,101.1033	10.0585	0.0543	8,368.7355

[illegible]

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

2.3 Vegetation**Vegetation**

	CO2e
Category	MT
Vegetation Land Change	- 1,995.300 4
Total	- 1,995.300 4

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/3/2020	8/3/2020	5	1	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

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

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

Trips and VMT

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

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

[illegible]

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

3.2 Demolition - 2020

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

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

3.2 Demolition - 2020**Mitigated Construction Off-Site**

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

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.0852	4.6587	19.0470	0.0589	6.6127	0.0424	6.6551	1.7689	0.0395	1.8083	0.0000	5,516.8546	5,516.8546	0.3471	0.0000	5,525.5316
Unmitigated	2.0852	4.6587	19.0470	0.0589	6.6127	0.0424	6.6551	1.7689	0.0395	1.8083	0.0000	5,516.8546	5,516.8546	0.3471	0.0000	5,525.5316

4.2 Trip Summary Information

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

4.3 Trip Type Information

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

4.4 Fleet Mix

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,238.4738	1,238.4738	0.0511	0.0106	1,242.9045
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,238.4738	1,238.4738	0.0511	0.0106	1,242.9045
NaturalGas Mitigated	0.0674	0.5841	0.3053	3.6800e-003		0.0466	0.0466		0.0466	0.0466	0.0000	666.9402	666.9402	0.0128	0.0122	670.9034
NaturalGas Unmitigated	0.0674	0.5841	0.3053	3.6800e-003		0.0466	0.0466		0.0466	0.0466	0.0000	666.9402	666.9402	0.0128	0.0122	670.9034

Rancho La Habra - Project Development (Operations - Unmitigated) - Orange 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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	2.55862e+006	0.0138	0.1179	0.0502	7.5000e-004		9.5300e-003	9.5300e-003		9.5300e-003	9.5300e-003	0.0000	136.5375	136.5375	2.6200e-003	2.5000e-003	137.3489
Health Club	470250	2.5400e-003	0.0231	0.0194	1.4000e-004		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003	0.0000	25.0943	25.0943	4.8000e-004	4.6000e-004	25.2435
High Turnover (Sit Down Restaurant)	2.07456e+006	0.0112	0.1017	0.0854	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003	0.0000	110.7064	110.7064	2.1200e-003	2.0300e-003	111.3643
Single Family Housing	7.14796e+006	0.0385	0.3294	0.1402	2.1000e-003		0.0266	0.0266		0.0266	0.0266	0.0000	381.4424	381.4424	7.3100e-003	6.9900e-003	383.7091
Supermarket	246600	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1595	13.1595	2.5000e-004	2.4000e-004	13.2377
Total		0.0674	0.5841	0.3053	3.6700e-003		0.0466	0.0466		0.0466	0.0466	0.0000	666.9402	666.9402	0.0128	0.0122	670.9034

Rancho La Habra - Project Development (Operations - Unmitigated) - Orange 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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	2.55862e+006	0.0138	0.1179	0.0502	7.5000e-004		9.5300e-003	9.5300e-003		9.5300e-003	9.5300e-003	0.0000	136.5375	136.5375	2.6200e-003	2.5000e-003	137.3489
Health Club	470250	2.5400e-003	0.0231	0.0194	1.4000e-004		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003	0.0000	25.0943	25.0943	4.8000e-004	4.6000e-004	25.2435
High Turnover (Sit Down Restaurant)	2.07456e+006	0.0112	0.1017	0.0854	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003	0.0000	110.7064	110.7064	2.1200e-003	2.0300e-003	111.3643
Single Family Housing	7.14796e+006	0.0385	0.3294	0.1402	2.1000e-003		0.0266	0.0266		0.0266	0.0266	0.0000	381.4424	381.4424	7.3100e-003	6.9900e-003	383.7091
Supermarket	246600	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1595	13.1595	2.5000e-004	2.4000e-004	13.2377
Total		0.0674	0.5841	0.3053	3.6700e-003		0.0466	0.0466		0.0466	0.0466	0.0000	666.9402	666.9402	0.0128	0.0122	670.9034

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

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	720435	229.5462	9.4800e-003	1.9600e-003	230.3674
Health Club	190125	60.5779	2.5000e-003	5.2000e-004	60.7946
High Turnover (Sit Down Restaurant)	291840	92.9865	3.8400e-003	7.9000e-004	93.3191
Single Family Housing	2.22114e+006	707.7014	0.0292	6.0400e-003	710.2332
Supermarket	463440	147.6619	6.1000e-003	1.2600e-003	148.1902
Total		1,238.4738	0.0511	0.0106	1,242.9045

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

5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	720435	229.5462	9.4800e-003	1.9600e-003	230.3674
Health Club	190125	60.5779	2.5000e-003	5.2000e-004	60.7946
High Turnover (Sit Down Restaurant)	291840	92.9865	3.8400e-003	7.9000e-004	93.3191
Single Family Housing	2.22114e+006	707.7014	0.0292	6.0400e-003	710.2332
Supermarket	463440	147.6619	6.1000e-003	1.2600e-003	148.1902
Total		1,238.4738	0.0511	0.0106	1,242.9045

6.0 Area Detail**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.9326	0.1595	7.0315	7.0700e-003		0.4271	0.4271		0.4271	0.4271	44.8245	93.2481	138.0726	0.1405	3.0400e-003	142.4914
Unmitigated	5.9326	0.1595	7.0315	7.0700e-003		0.4271	0.4271		0.4271	0.4271	44.8245	93.2481	138.0726	0.1405	3.0400e-003	142.4914

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.0631					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.3822	0.1095	2.6826	6.8400e-003		0.4030	0.4030		0.4030	0.4030	44.8245	86.1372	130.9616	0.1337	3.0400e-003	135.2101
Landscaping	0.1306	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813
Total	5.9326	0.1595	7.0315	7.0700e-003		0.4271	0.4271		0.4271	0.4271	44.8245	93.2481	138.0726	0.1405	3.0400e-003	142.4914

Rancho La Habra - Project Development (Operations - Unmitigated) - Orange 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	0.3567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.0631					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.3822	0.1095	2.6826	6.8400e-003		0.4030	0.4030		0.4030	0.4030	44.8245	86.1372	130.9616	0.1337	3.0400e-003	135.2101
Landscaping	0.1306	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813
Total	5.9326	0.1595	7.0315	7.0700e-003		0.4271	0.4271		0.4271	0.4271	44.8245	93.2481	138.0726	0.1405	3.0400e-003	142.4914

7.0 Water Detail**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	388.7101	1.0822	0.0284	424.2340
Unmitigated	388.7101	1.0822	0.0284	424.2340

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

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 50.1614	177.5654	7.3300e-003	1.5200e-003	178.2007
Condo/Townhouse	9.44733 / 5.95593	63.2753	0.3103	7.7800e-003	73.3531
Health Club	1.33072 / 0.815603	8.8302	0.0437	1.1000e-003	10.2494
High Turnover (Sit Down Restaurant)	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Single Family Housing	18.0477 / 11.3779	120.8777	0.5928	0.0149	140.1297
Supermarket	1.47922 / 0.045749	6.7682	0.0485	1.1900e-003	8.3349
Total		388.7101	1.0822	0.0284	424.2340

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

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 50.1614	177.5654	7.3300e-003	1.5200e-003	178.2007
Condo/Townhouse	9.44733 / 5.95593	63.2753	0.3103	7.7800e-003	73.3531
Health Club	1.33072 / 0.815603	8.8302	0.0437	1.1000e-003	10.2494
High Turnover (Sit Down Restaurant)	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Single Family Housing	18.0477 / 11.3779	120.8777	0.5928	0.0149	140.1297
Supermarket	1.47922 / 0.045749	6.7682	0.0485	1.1900e-003	8.3349
Total		388.7101	1.0822	0.0284	424.2340

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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

Category/Year

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

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

8.2 Waste by Land Use**Unmitigated**

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

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

8.2 Waste by Land Use**Mitigated**

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

9.0 Operational Offroad

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

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	500	0.73	Diesel

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

Boilers

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

User Defined Equipment

Equipment Type	Number
----------------	--------

10.1 Stationary Sources**Unmitigated/Mitigated**

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

11.0 Vegetation

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

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	- 1,995.300 4	0.0000	0.0000	- 1,995.300 4

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	67.79 / 14.25	-230.7574	0.0000	0.0000	-230.7574
Scrub	25.74 / 54.33	408.8370	0.0000	0.0000	408.8370
Trees	44.51 / 24.93	- 2,173.380 0	0.0000	0.0000	- 2,173.380 0
Total		- 1,995.300 4	0.0000	0.0000	- 1,995.300 4

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APPENDIX 3.3:

CALEEMOD ANNUAL RESIDENTIAL OPTION PROJECT OPERATIONS EMISSIONS MODEL OUTPUTS

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

Rancho La Habra - Residential Option (Operations - Unmitigated)
Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	42.10	Acre	42.10	1,833,876.00	0
Health Club	22.50	1000sqft	0.52	22,500.00	0
Condo/Townhouse	194.00	Dwelling Unit	9.52	368,600.00	582
Single Family Housing	277.00	Dwelling Unit	97.86	801,638.00	831

1.2 Other Project Characteristics

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

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

Project Characteristics -

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

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

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

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Land Use Change -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	194,000.00	368,600.00
tblLandUse	LandUseSquareFeet	498,600.00	801,638.00
tblLandUse	LotAcreage	12.13	9.52
tblLandUse	LotAcreage	89.94	97.86
tblLandUse	Population	555.00	582.00
tblLandUse	Population	792.00	831.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	500.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleEF	HHD	0.39	0.03
tblVehicleEF	HHD	0.17	0.15

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

tblVehicleEF	HHD	0.05	7.1096e-007
tblVehicleEF	HHD	1.40	6.05
tblVehicleEF	HHD	1.30	0.68
tblVehicleEF	HHD	4.46	9.9764e-003
tblVehicleEF	HHD	3,712.33	976.34
tblVehicleEF	HHD	1,567.60	1,325.78
tblVehicleEF	HHD	14.46	0.08
tblVehicleEF	HHD	12.24	5.17
tblVehicleEF	HHD	1.64	2.36
tblVehicleEF	HHD	8.2750e-003	2.6957e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	9.1330e-007
tblVehicleEF	HHD	7.9170e-003	2.5791e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6670e-003	8.7591e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	8.3975e-007
tblVehicleEF	HHD	1.1800e-004	2.5844e-006
tblVehicleEF	HHD	4.7610e-003	1.0888e-004
tblVehicleEF	HHD	0.33	0.40
tblVehicleEF	HHD	9.2000e-005	1.8835e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.4000e-004	4.8309e-004
tblVehicleEF	HHD	0.08	3.7172e-006
tblVehicleEF	HHD	0.03	8.8967e-003

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.1700e-004	7.5037e-007
tblVehicleEF	HHD	1.1800e-004	2.5844e-006
tblVehicleEF	HHD	4.7610e-003	1.0888e-004
tblVehicleEF	HHD	0.41	0.47
tblVehicleEF	HHD	9.2000e-005	1.8835e-006
tblVehicleEF	HHD	0.26	0.18
tblVehicleEF	HHD	4.4000e-004	4.8309e-004
tblVehicleEF	HHD	0.09	4.0699e-006
tblVehicleEF	HHD	0.37	0.03
tblVehicleEF	HHD	0.17	0.15
tblVehicleEF	HHD	0.05	6.8287e-007
tblVehicleEF	HHD	1.02	5.97
tblVehicleEF	HHD	1.31	0.68
tblVehicleEF	HHD	4.25	9.5082e-003
tblVehicleEF	HHD	3,932.88	965.32
tblVehicleEF	HHD	1,567.60	1,325.78
tblVehicleEF	HHD	14.46	0.08
tblVehicleEF	HHD	12.63	4.94
tblVehicleEF	HHD	1.55	2.24
tblVehicleEF	HHD	6.9760e-003	2.3520e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	9.1330e-007
tblVehicleEF	HHD	6.6740e-003	2.2503e-003
tblVehicleEF	HHD	0.03	0.03

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

tblVehicleEF	HHD	8.6670e-003	8.7591e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	8.3975e-007
tblVehicleEF	HHD	1.6800e-004	3.7475e-006
tblVehicleEF	HHD	4.8570e-003	1.1087e-004
tblVehicleEF	HHD	0.32	0.42
tblVehicleEF	HHD	1.2600e-004	2.7063e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.2300e-004	4.7071e-004
tblVehicleEF	HHD	0.08	3.5798e-006
tblVehicleEF	HHD	0.03	8.7940e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.1400e-004	7.4302e-007
tblVehicleEF	HHD	1.6800e-004	3.7475e-006
tblVehicleEF	HHD	4.8570e-003	1.1087e-004
tblVehicleEF	HHD	0.39	0.49
tblVehicleEF	HHD	1.2600e-004	2.7063e-006
tblVehicleEF	HHD	0.26	0.18
tblVehicleEF	HHD	4.2300e-004	4.7071e-004
tblVehicleEF	HHD	0.09	3.9195e-006
tblVehicleEF	HHD	0.42	0.02
tblVehicleEF	HHD	0.17	8.7798e-004
tblVehicleEF	HHD	0.06	7.1763e-007
tblVehicleEF	HHD	1.93	5.97
tblVehicleEF	HHD	1.30	0.21
tblVehicleEF	HHD	4.50	0.01
tblVehicleEF	HHD	3,407.76	956.71

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

tblVehicleEF	HHD	1,567.60	1,219.26
tblVehicleEF	HHD	14.46	0.08
tblVehicleEF	HHD	11.69	5.28
tblVehicleEF	HHD	1.61	2.27
tblVehicleEF	HHD	0.01	2.8857e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	9.1330e-007
tblVehicleEF	HHD	9.6330e-003	2.7609e-003
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	8.6670e-003	8.4573e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	8.3975e-007
tblVehicleEF	HHD	1.1400e-004	2.6240e-006
tblVehicleEF	HHD	5.0300e-003	1.1860e-004
tblVehicleEF	HHD	0.36	0.37
tblVehicleEF	HHD	9.1000e-005	1.9265e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.8300e-004	5.2090e-004
tblVehicleEF	HHD	0.08	3.7490e-006
tblVehicleEF	HHD	0.03	9.0385e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.1800e-004	7.5177e-007
tblVehicleEF	HHD	1.1400e-004	2.6240e-006
tblVehicleEF	HHD	5.0300e-003	1.1860e-004
tblVehicleEF	HHD	0.44	0.42

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tblVehicleEF	HHD	9.1000e-005	1.9265e-006
tblVehicleEF	HHD	0.26	0.02
tblVehicleEF	HHD	4.8300e-004	5.2090e-004
tblVehicleEF	HHD	0.09	4.1047e-006
tblVehicleEF	LDA	2.7580e-003	1.4539e-003
tblVehicleEF	LDA	2.8090e-003	0.03
tblVehicleEF	LDA	0.43	0.49
tblVehicleEF	LDA	0.72	1.76
tblVehicleEF	LDA	212.92	225.86
tblVehicleEF	LDA	47.75	46.23
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.7100e-003	1.2970e-003
tblVehicleEF	LDA	2.1900e-003	1.5539e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5740e-003	1.1939e-003
tblVehicleEF	LDA	2.0130e-003	1.4288e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	6.9380e-003	5.0900e-003
tblVehicleEF	LDA	0.03	0.17
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.1310e-003	2.2342e-003
tblVehicleEF	LDA	4.8900e-004	4.5753e-004

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tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	0.01	7.3927e-003
tblVehicleEF	LDA	0.03	0.17
tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDA	2.9150e-003	1.5499e-003
tblVehicleEF	LDA	2.5300e-003	0.03
tblVehicleEF	LDA	0.46	0.54
tblVehicleEF	LDA	0.63	1.52
tblVehicleEF	LDA	221.83	235.06
tblVehicleEF	LDA	47.75	45.81
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.7100e-003	1.2970e-003
tblVehicleEF	LDA	2.1900e-003	1.5539e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5740e-003	1.1939e-003
tblVehicleEF	LDA	2.0130e-003	1.4288e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	7.3280e-003	5.3745e-003
tblVehicleEF	LDA	0.03	0.16
tblVehicleEF	LDA	0.03	0.13

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tblVehicleEF	LDA	2.2210e-003	2.3252e-003
tblVehicleEF	LDA	4.8800e-004	4.5329e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	7.8080e-003
tblVehicleEF	LDA	0.03	0.16
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	2.7050e-003	1.4238e-003
tblVehicleEF	LDA	2.8660e-003	0.04
tblVehicleEF	LDA	0.41	0.47
tblVehicleEF	LDA	0.74	1.81
tblVehicleEF	LDA	209.63	222.46
tblVehicleEF	LDA	47.75	46.33
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.7100e-003	1.2970e-003
tblVehicleEF	LDA	2.1900e-003	1.5539e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5740e-003	1.1939e-003
tblVehicleEF	LDA	2.0130e-003	1.4288e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	6.8070e-003	4.9944e-003

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tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.0980e-003	2.2006e-003
tblVehicleEF	LDA	4.9000e-004	4.5846e-004
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	9.8910e-003	7.2532e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDT1	5.9740e-003	3.2242e-003
tblVehicleEF	LDT1	7.9960e-003	0.05
tblVehicleEF	LDT1	0.78	0.78
tblVehicleEF	LDT1	1.69	1.92
tblVehicleEF	LDT1	272.89	271.82
tblVehicleEF	LDT1	61.96	56.50
tblVehicleEF	LDT1	0.07	0.05
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1560e-003	1.6205e-003
tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	1.9830e-003	1.4905e-003
tblVehicleEF	LDT1	2.5640e-003	1.7819e-003
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.19	0.14

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tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.13	0.48
tblVehicleEF	LDT1	0.11	0.22
tblVehicleEF	LDT1	2.7370e-003	2.6899e-003
tblVehicleEF	LDT1	6.4900e-004	5.5911e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.48
tblVehicleEF	LDT1	0.12	0.24
tblVehicleEF	LDT1	6.2860e-003	3.4156e-003
tblVehicleEF	LDT1	7.1800e-003	0.04
tblVehicleEF	LDT1	0.85	0.85
tblVehicleEF	LDT1	1.46	1.66
tblVehicleEF	LDT1	283.94	281.33
tblVehicleEF	LDT1	61.96	56.01
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1560e-003	1.6205e-003
tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	1.9830e-003	1.4905e-003
tblVehicleEF	LDT1	2.5640e-003	1.7819e-003

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tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.12	0.45
tblVehicleEF	LDT1	0.10	0.20
tblVehicleEF	LDT1	2.8480e-003	2.7839e-003
tblVehicleEF	LDT1	6.4500e-004	5.5423e-004
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.12	0.45
tblVehicleEF	LDT1	0.11	0.22
tblVehicleEF	LDT1	5.8680e-003	3.1636e-003
tblVehicleEF	LDT1	8.1630e-003	0.05
tblVehicleEF	LDT1	0.76	0.76
tblVehicleEF	LDT1	1.74	1.98
tblVehicleEF	LDT1	268.81	268.31
tblVehicleEF	LDT1	61.96	56.61
tblVehicleEF	LDT1	0.07	0.05
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1560e-003	1.6205e-003
tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003

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tblVehicleEF	LDT1	1.9830e-003	1.4905e-003
tblVehicleEF	LDT1	2.5640e-003	1.7819e-003
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.15	0.57
tblVehicleEF	LDT1	0.11	0.23
tblVehicleEF	LDT1	2.6960e-003	2.6552e-003
tblVehicleEF	LDT1	6.4900e-004	5.6018e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.15	0.57
tblVehicleEF	LDT1	0.12	0.25
tblVehicleEF	LDT2	3.9670e-003	2.4814e-003
tblVehicleEF	LDT2	3.9510e-003	0.05
tblVehicleEF	LDT2	0.58	0.66
tblVehicleEF	LDT2	0.97	2.27
tblVehicleEF	LDT2	305.47	284.99
tblVehicleEF	LDT2	68.50	59.63
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8320e-003	1.3688e-003
tblVehicleEF	LDT2	2.3500e-003	1.5746e-003

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tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4478e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	9.8490e-003	9.4619e-003
tblVehicleEF	LDT2	0.05	0.35
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	3.0580e-003	2.8192e-003
tblVehicleEF	LDT2	7.0100e-004	5.9004e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.35
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LDT2	4.1900e-003	2.6377e-003
tblVehicleEF	LDT2	3.5660e-003	0.04
tblVehicleEF	LDT2	0.63	0.72
tblVehicleEF	LDT2	0.84	1.96
tblVehicleEF	LDT2	317.98	294.00
tblVehicleEF	LDT2	68.50	59.06
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003

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tblVehicleEF	LDT2	1.8320e-003	1.3688e-003
tblVehicleEF	LDT2	2.3500e-003	1.5746e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4478e-003
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.01	9.9749e-003
tblVehicleEF	LDT2	0.05	0.33
tblVehicleEF	LDT2	0.05	0.19
tblVehicleEF	LDT2	3.1840e-003	2.9084e-003
tblVehicleEF	LDT2	6.9900e-004	5.8443e-004
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.05	0.33
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	3.8920e-003	2.4323e-003
tblVehicleEF	LDT2	4.0310e-003	0.05
tblVehicleEF	LDT2	0.56	0.64
tblVehicleEF	LDT2	0.99	2.34
tblVehicleEF	LDT2	300.86	281.66
tblVehicleEF	LDT2	68.50	59.75
tblVehicleEF	LDT2	0.04	0.04

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tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8320e-003	1.3688e-003
tblVehicleEF	LDT2	2.3500e-003	1.5746e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4478e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	9.6640e-003	9.2897e-003
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	3.0120e-003	2.7863e-003
tblVehicleEF	LDT2	7.0100e-004	5.9127e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LHD1	4.4070e-003	4.8055e-003
tblVehicleEF	LHD1	5.8690e-003	3.0275e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.48	0.34

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tblVehicleEF	LHD1	1.81	0.90
tblVehicleEF	LHD1	9.05	8.70
tblVehicleEF	LHD1	569.17	608.55
tblVehicleEF	LHD1	28.18	10.77
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.79	0.46
tblVehicleEF	LHD1	8.7400e-004	8.8595e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8780e-003
tblVehicleEF	LHD1	8.7310e-003	5.8755e-003
tblVehicleEF	LHD1	6.9400e-004	2.0728e-004
tblVehicleEF	LHD1	8.3600e-004	8.4762e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5920e-003	2.4695e-003
tblVehicleEF	LHD1	8.3350e-003	5.5985e-003
tblVehicleEF	LHD1	6.3800e-004	1.9059e-004
tblVehicleEF	LHD1	2.2360e-003	1.6924e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4970e-003	1.1453e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.25	0.37
tblVehicleEF	LHD1	0.18	0.05
tblVehicleEF	LHD1	9.0000e-005	8.4342e-005
tblVehicleEF	LHD1	5.5660e-003	5.9307e-003
tblVehicleEF	LHD1	3.1600e-004	1.0657e-004
tblVehicleEF	LHD1	2.2360e-003	1.6924e-003

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tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.4970e-003	1.1453e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.25	0.37
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD1	4.4070e-003	4.8154e-003
tblVehicleEF	LHD1	5.9560e-003	3.0669e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.49	0.35
tblVehicleEF	LHD1	1.73	0.86
tblVehicleEF	LHD1	9.05	8.70
tblVehicleEF	LHD1	569.17	608.55
tblVehicleEF	LHD1	28.18	10.71
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.75	0.43
tblVehicleEF	LHD1	8.7400e-004	8.8595e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8780e-003
tblVehicleEF	LHD1	8.7310e-003	5.8755e-003
tblVehicleEF	LHD1	6.9400e-004	2.0728e-004
tblVehicleEF	LHD1	8.3600e-004	8.4762e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5920e-003	2.4695e-003
tblVehicleEF	LHD1	8.3350e-003	5.5985e-003
tblVehicleEF	LHD1	6.3800e-004	1.9059e-004

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

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tblVehicleEF	LHD1	0.78	0.45
tblVehicleEF	LHD1	8.7400e-004	8.8595e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8780e-003
tblVehicleEF	LHD1	8.7310e-003	5.8755e-003
tblVehicleEF	LHD1	6.9400e-004	2.0728e-004
tblVehicleEF	LHD1	8.3600e-004	8.4762e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5920e-003	2.4695e-003
tblVehicleEF	LHD1	8.3350e-003	5.5985e-003
tblVehicleEF	LHD1	6.3800e-004	1.9059e-004
tblVehicleEF	LHD1	2.2730e-003	1.7163e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4980e-003	1.1477e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.27	0.40
tblVehicleEF	LHD1	0.18	0.05
tblVehicleEF	LHD1	9.0000e-005	8.4342e-005
tblVehicleEF	LHD1	5.5660e-003	5.9307e-003
tblVehicleEF	LHD1	3.1600e-004	1.0666e-004
tblVehicleEF	LHD1	2.2730e-003	1.7163e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.4980e-003	1.1477e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.27	0.40

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tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD2	3.1600e-003	3.4118e-003
tblVehicleEF	LHD2	2.5500e-003	2.5031e-003
tblVehicleEF	LHD2	5.1240e-003	7.7083e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	1.00	0.59
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89
tblVehicleEF	LHD2	24.66	8.32
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.39	0.52
tblVehicleEF	LHD2	1.1000e-003	1.3293e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4584e-003
tblVehicleEF	LHD2	3.7900e-004	1.1948e-004
tblVehicleEF	LHD2	1.0520e-003	1.2718e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6850e-003	2.6627e-003
tblVehicleEF	LHD2	7.2730e-003	9.0361e-003
tblVehicleEF	LHD2	3.4900e-004	1.0985e-004
tblVehicleEF	LHD2	7.8600e-004	1.0733e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.7600e-004	7.5924e-004
tblVehicleEF	LHD2	0.04	0.04

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tblVehicleEF	LHD2	0.06	0.21
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2702e-004
tblVehicleEF	LHD2	5.7380e-003	5.9622e-003
tblVehicleEF	LHD2	2.6400e-004	8.2343e-005
tblVehicleEF	LHD2	7.8600e-004	1.0733e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.7600e-004	7.5924e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.21
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.1600e-003	3.4188e-003
tblVehicleEF	LHD2	2.5710e-003	2.5214e-003
tblVehicleEF	LHD2	4.9820e-003	7.4668e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	0.96	0.57
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89
tblVehicleEF	LHD2	24.66	8.28
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.36	0.49
tblVehicleEF	LHD2	1.1000e-003	1.3293e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4584e-003

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tblVehicleEF	LHD2	3.7900e-004	1.1948e-004
tblVehicleEF	LHD2	1.0520e-003	1.2718e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6850e-003	2.6627e-003
tblVehicleEF	LHD2	7.2730e-003	9.0361e-003
tblVehicleEF	LHD2	3.4900e-004	1.0985e-004
tblVehicleEF	LHD2	1.1030e-003	1.5037e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7500e-004	1.0231e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2702e-004
tblVehicleEF	LHD2	5.7380e-003	5.9622e-003
tblVehicleEF	LHD2	2.6300e-004	8.1932e-005
tblVehicleEF	LHD2	1.1030e-003	1.5037e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7500e-004	1.0231e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	3.1600e-003	3.4105e-003
tblVehicleEF	LHD2	2.5450e-003	2.4983e-003
tblVehicleEF	LHD2	5.1530e-003	7.7580e-003
tblVehicleEF	LHD2	0.12	0.14

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tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	1.01	0.60
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89
tblVehicleEF	LHD2	24.66	8.33
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.38	0.51
tblVehicleEF	LHD2	1.1000e-003	1.3293e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4584e-003
tblVehicleEF	LHD2	3.7900e-004	1.1948e-004
tblVehicleEF	LHD2	1.0520e-003	1.2718e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6850e-003	2.6627e-003
tblVehicleEF	LHD2	7.2730e-003	9.0361e-003
tblVehicleEF	LHD2	3.4900e-004	1.0985e-004
tblVehicleEF	LHD2	7.7000e-004	1.0625e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.6800e-004	7.4780e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.23
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2702e-004
tblVehicleEF	LHD2	5.7380e-003	5.9622e-003
tblVehicleEF	LHD2	2.6400e-004	8.2408e-005

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tblVehicleEF	LHD2	7.7000e-004	1.0625e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.6800e-004	7.4780e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.23
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	17.64	17.81
tblVehicleEF	MCY	9.65	8.54
tblVehicleEF	MCY	179.17	214.60
tblVehicleEF	MCY	43.54	58.63
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3120e-003	2.2964e-003
tblVehicleEF	MCY	3.4500e-003	2.9776e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1580e-003	2.1432e-003
tblVehicleEF	MCY	3.2350e-003	2.7922e-003
tblVehicleEF	MCY	1.12	1.14
tblVehicleEF	MCY	0.64	0.66
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	2.32	2.33
tblVehicleEF	MCY	0.57	1.70

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tblVehicleEF	MCY	2.00	1.78
tblVehicleEF	MCY	2.1500e-003	2.1237e-003
tblVehicleEF	MCY	6.5200e-004	5.8022e-004
tblVehicleEF	MCY	1.12	1.14
tblVehicleEF	MCY	0.64	0.66
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	2.90	2.91
tblVehicleEF	MCY	0.57	1.70
tblVehicleEF	MCY	2.18	1.93
tblVehicleEF	MCY	0.48	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.03	17.19
tblVehicleEF	MCY	8.86	7.81
tblVehicleEF	MCY	179.17	213.43
tblVehicleEF	MCY	43.54	56.86
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3120e-003	2.2964e-003
tblVehicleEF	MCY	3.4500e-003	2.9776e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1580e-003	2.1432e-003
tblVehicleEF	MCY	3.2350e-003	2.7922e-003
tblVehicleEF	MCY	1.68	1.72
tblVehicleEF	MCY	0.68	0.71
tblVehicleEF	MCY	1.07	1.09

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tblVehicleEF	MCY	2.27	2.28
tblVehicleEF	MCY	0.53	1.59
tblVehicleEF	MCY	1.81	1.59
tblVehicleEF	MCY	2.1390e-003	2.1121e-003
tblVehicleEF	MCY	6.3300e-004	5.6267e-004
tblVehicleEF	MCY	1.68	1.72
tblVehicleEF	MCY	0.68	0.71
tblVehicleEF	MCY	1.07	1.09
tblVehicleEF	MCY	2.84	2.85
tblVehicleEF	MCY	0.53	1.59
tblVehicleEF	MCY	1.97	1.73
tblVehicleEF	MCY	0.50	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	17.73	17.90
tblVehicleEF	MCY	9.78	8.67
tblVehicleEF	MCY	179.17	214.78
tblVehicleEF	MCY	43.54	58.95
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3120e-003	2.2964e-003
tblVehicleEF	MCY	3.4500e-003	2.9776e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1580e-003	2.1432e-003
tblVehicleEF	MCY	3.2350e-003	2.7922e-003
tblVehicleEF	MCY	1.24	1.27

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tblVehicleEF	MCY	0.81	0.84
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.33	2.34
tblVehicleEF	MCY	0.66	1.98
tblVehicleEF	MCY	2.04	1.81
tblVehicleEF	MCY	2.1520e-003	2.1254e-003
tblVehicleEF	MCY	6.5500e-004	5.8338e-004
tblVehicleEF	MCY	1.24	1.27
tblVehicleEF	MCY	0.81	0.84
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.91	2.92
tblVehicleEF	MCY	0.66	1.98
tblVehicleEF	MCY	2.22	1.97
tblVehicleEF	MDV	6.8660e-003	2.9640e-003
tblVehicleEF	MDV	8.3060e-003	0.06
tblVehicleEF	MDV	0.83	0.71
tblVehicleEF	MDV	1.63	2.44
tblVehicleEF	MDV	419.30	353.65
tblVehicleEF	MDV	92.03	72.42
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8480e-003	1.4199e-003
tblVehicleEF	MDV	2.2760e-003	1.5902e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7020e-003	1.3092e-003

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

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tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7020e-003	1.3092e-003
tblVehicleEF	MDV	2.0930e-003	1.4622e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.10	0.23
tblVehicleEF	MDV	4.3620e-003	3.5872e-003
tblVehicleEF	MDV	9.4400e-004	7.1049e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.11	0.25
tblVehicleEF	MDV	6.7380e-003	2.9054e-003
tblVehicleEF	MDV	8.4750e-003	0.06
tblVehicleEF	MDV	0.80	0.69
tblVehicleEF	MDV	1.68	2.52
tblVehicleEF	MDV	413.15	350.23
tblVehicleEF	MDV	92.03	72.55
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8480e-003	1.4199e-003

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tblVehicleEF	MDV	2.2760e-003	1.5902e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7020e-003	1.3092e-003
tblVehicleEF	MDV	2.0930e-003	1.4622e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.14	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.10	0.43
tblVehicleEF	MDV	0.11	0.26
tblVehicleEF	MDV	4.1330e-003	3.4616e-003
tblVehicleEF	MDV	9.4900e-004	7.1797e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.14	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.10	0.43
tblVehicleEF	MDV	0.13	0.29
tblVehicleEF	MH	0.01	3.0182e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.98	0.26
tblVehicleEF	MH	4.09	0.00
tblVehicleEF	MH	1,088.87	926.29
tblVehicleEF	MH	56.38	0.00
tblVehicleEF	MH	1.02	3.30
tblVehicleEF	MH	0.13	0.13

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tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.08
tblVehicleEF	MH	8.7000e-004	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2370e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	8.0000e-004	0.00
tblVehicleEF	MH	0.66	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.24	0.00
tblVehicleEF	MH	0.01	8.7567e-003
tblVehicleEF	MH	6.3500e-004	0.00
tblVehicleEF	MH	0.66	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.26	0.00
tblVehicleEF	MH	0.01	3.0182e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.01	0.26
tblVehicleEF	MH	3.88	0.00
tblVehicleEF	MH	1,088.87	926.29
tblVehicleEF	MH	56.38	0.00

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tblVehicleEF	MH	0.95	3.12
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.08
tblVehicleEF	MH	8.7000e-004	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2370e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	8.0000e-004	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.23	0.00
tblVehicleEF	MH	0.01	8.7567e-003
tblVehicleEF	MH	6.3100e-004	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.25	0.00
tblVehicleEF	MH	0.01	3.0182e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.98	0.26
tblVehicleEF	MH	4.12	0.00

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tblVehicleEF	MH	1,088.87	926.29
tblVehicleEF	MH	56.38	0.00
tblVehicleEF	MH	1.00	3.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.08
tblVehicleEF	MH	8.7000e-004	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2370e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	8.0000e-004	0.00
tblVehicleEF	MH	0.70	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.24	0.00
tblVehicleEF	MH	0.01	8.7567e-003
tblVehicleEF	MH	6.3500e-004	0.00
tblVehicleEF	MH	0.70	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.27	0.00
tblVehicleEF	MHD	0.02	4.3061e-003
tblVehicleEF	MHD	2.3010e-003	9.7878e-004

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tblVehicleEF	MHD	0.04	9.9220e-003
tblVehicleEF	MHD	0.31	0.37
tblVehicleEF	MHD	0.22	0.14
tblVehicleEF	MHD	3.97	1.01
tblVehicleEF	MHD	147.33	51.57
tblVehicleEF	MHD	1,116.08	952.09
tblVehicleEF	MHD	54.11	10.89
tblVehicleEF	MHD	0.38	0.24
tblVehicleEF	MHD	0.66	0.97
tblVehicleEF	MHD	5.7000e-005	1.3672e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8320e-003	6.2526e-003
tblVehicleEF	MHD	6.5400e-004	1.0428e-004
tblVehicleEF	MHD	5.5000e-005	1.3080e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7070e-003	5.9771e-003
tblVehicleEF	MHD	6.0200e-004	9.5883e-005
tblVehicleEF	MHD	8.3800e-004	4.4901e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.0600e-004	3.3904e-004
tblVehicleEF	MHD	0.03	9.2412e-003
tblVehicleEF	MHD	0.01	0.10
tblVehicleEF	MHD	0.25	0.05
tblVehicleEF	MHD	1.4160e-003	4.9079e-004

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tblVehicleEF	MHD	0.01	9.0982e-003
tblVehicleEF	MHD	6.1100e-004	1.0774e-004
tblVehicleEF	MHD	8.3800e-004	4.4901e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	6.0600e-004	3.3904e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.01	0.10
tblVehicleEF	MHD	0.27	0.05
tblVehicleEF	MHD	0.01	4.0869e-003
tblVehicleEF	MHD	2.3200e-003	9.9519e-004
tblVehicleEF	MHD	0.04	9.5988e-003
tblVehicleEF	MHD	0.23	0.31
tblVehicleEF	MHD	0.22	0.14
tblVehicleEF	MHD	3.79	0.96
tblVehicleEF	MHD	156.06	51.42
tblVehicleEF	MHD	1,116.08	952.09
tblVehicleEF	MHD	54.11	10.81
tblVehicleEF	MHD	0.39	0.23
tblVehicleEF	MHD	0.63	0.92
tblVehicleEF	MHD	4.8000e-005	1.1758e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8320e-003	6.2526e-003
tblVehicleEF	MHD	6.5400e-004	1.0428e-004
tblVehicleEF	MHD	4.6000e-005	1.1249e-004
tblVehicleEF	MHD	0.06	0.06

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tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7070e-003	5.9771e-003
tblVehicleEF	MHD	6.0200e-004	9.5883e-005
tblVehicleEF	MHD	1.1800e-003	6.3266e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	8.2200e-004	4.5743e-004
tblVehicleEF	MHD	0.03	9.3047e-003
tblVehicleEF	MHD	0.01	0.09
tblVehicleEF	MHD	0.24	0.05
tblVehicleEF	MHD	1.4990e-003	4.8956e-004
tblVehicleEF	MHD	0.01	9.0982e-003
tblVehicleEF	MHD	6.0700e-004	1.0694e-004
tblVehicleEF	MHD	1.1800e-003	6.3266e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	8.2200e-004	4.5743e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.01	0.09
tblVehicleEF	MHD	0.26	0.05
tblVehicleEF	MHD	0.02	4.6237e-003
tblVehicleEF	MHD	2.2950e-003	9.7301e-004
tblVehicleEF	MHD	0.04	9.9740e-003
tblVehicleEF	MHD	0.43	0.46
tblVehicleEF	MHD	0.22	0.14
tblVehicleEF	MHD	4.01	1.01
tblVehicleEF	MHD	135.27	51.76

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tblVehicleEF	MHD	1,116.08	952.08
tblVehicleEF	MHD	54.11	10.90
tblVehicleEF	MHD	0.36	0.25
tblVehicleEF	MHD	0.65	0.95
tblVehicleEF	MHD	7.0000e-005	1.6315e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8320e-003	6.2526e-003
tblVehicleEF	MHD	6.5400e-004	1.0428e-004
tblVehicleEF	MHD	6.7000e-005	1.5609e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7070e-003	5.9771e-003
tblVehicleEF	MHD	6.0200e-004	9.5883e-005
tblVehicleEF	MHD	8.2900e-004	4.3473e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.0300e-004	3.3394e-004
tblVehicleEF	MHD	0.03	9.2222e-003
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.25	0.05
tblVehicleEF	MHD	1.3030e-003	4.9243e-004
tblVehicleEF	MHD	0.01	9.0981e-003
tblVehicleEF	MHD	6.1100e-004	1.0789e-004
tblVehicleEF	MHD	8.2900e-004	4.3473e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03

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tblVehicleEF	MHD	6.0300e-004	3.3394e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.27	0.05
tblVehicleEF	OBUS	0.01	8.6081e-003
tblVehicleEF	OBUS	4.4900e-003	3.4710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.58
tblVehicleEF	OBUS	0.33	0.42
tblVehicleEF	OBUS	4.51	2.12
tblVehicleEF	OBUS	79.00	80.51
tblVehicleEF	OBUS	1,197.99	1,276.22
tblVehicleEF	OBUS	68.49	18.46
tblVehicleEF	OBUS	0.16	0.32
tblVehicleEF	OBUS	0.55	0.95
tblVehicleEF	OBUS	1.5000e-005	1.0732e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.5110e-003	6.5795e-003
tblVehicleEF	OBUS	9.3700e-004	2.0266e-004
tblVehicleEF	OBUS	1.4000e-005	1.0268e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.3820e-003	6.2779e-003
tblVehicleEF	OBUS	8.6200e-004	1.8634e-004
tblVehicleEF	OBUS	1.3340e-003	1.6535e-003
tblVehicleEF	OBUS	0.02	0.02

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tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.4900e-004	9.1533e-004
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.29	0.10
tblVehicleEF	OBUS	7.6600e-004	7.6663e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6400e-004	1.8266e-004
tblVehicleEF	OBUS	1.3340e-003	1.6535e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	7.4900e-004	9.1533e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	0.01	8.6902e-003
tblVehicleEF	OBUS	4.5620e-003	3.5422e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.58
tblVehicleEF	OBUS	0.34	0.43
tblVehicleEF	OBUS	4.28	2.01
tblVehicleEF	OBUS	82.70	79.60
tblVehicleEF	OBUS	1,197.99	1,276.23
tblVehicleEF	OBUS	68.49	18.27
tblVehicleEF	OBUS	0.16	0.30
tblVehicleEF	OBUS	0.52	0.89
tblVehicleEF	OBUS	1.2000e-005	9.5363e-005

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tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.5110e-003	6.5795e-003
tblVehicleEF	OBUS	9.3700e-004	2.0266e-004
tblVehicleEF	OBUS	1.2000e-005	9.1238e-005
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.3820e-003	6.2779e-003
tblVehicleEF	OBUS	8.6200e-004	1.8634e-004
tblVehicleEF	OBUS	1.8370e-003	2.2633e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.0190e-003	1.2350e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.27	0.10
tblVehicleEF	OBUS	8.0100e-004	7.5810e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6000e-004	1.8084e-004
tblVehicleEF	OBUS	1.8370e-003	2.2633e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.0190e-003	1.2350e-003
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.30	0.11
tblVehicleEF	OBUS	0.01	8.5167e-003

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tblVehicleEF	OBUS	4.4690e-003	3.4503e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.59
tblVehicleEF	OBUS	0.33	0.42
tblVehicleEF	OBUS	4.54	2.13
tblVehicleEF	OBUS	73.90	81.75
tblVehicleEF	OBUS	1,197.99	1,276.22
tblVehicleEF	OBUS	68.49	18.49
tblVehicleEF	OBUS	0.15	0.34
tblVehicleEF	OBUS	0.54	0.93
tblVehicleEF	OBUS	1.8000e-005	1.2384e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.5110e-003	6.5795e-003
tblVehicleEF	OBUS	9.3700e-004	2.0266e-004
tblVehicleEF	OBUS	1.7000e-005	1.1848e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.3820e-003	6.2779e-003
tblVehicleEF	OBUS	8.6200e-004	1.8634e-004
tblVehicleEF	OBUS	1.3260e-003	1.6532e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.3600e-004	9.0323e-004
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.24
tblVehicleEF	OBUS	0.29	0.10

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tblVehicleEF	OBUS	7.1700e-004	7.7840e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6400e-004	1.8296e-004
tblVehicleEF	OBUS	1.3260e-003	1.6532e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.3600e-004	9.0323e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.24
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	SBUS	0.82	0.10
tblVehicleEF	SBUS	0.01	8.1395e-003
tblVehicleEF	SBUS	0.06	8.9683e-003
tblVehicleEF	SBUS	8.76	3.71
tblVehicleEF	SBUS	0.77	0.76
tblVehicleEF	SBUS	8.04	1.19
tblVehicleEF	SBUS	1,056.06	358.73
tblVehicleEF	SBUS	1,050.26	1,039.84
tblVehicleEF	SBUS	60.45	7.22
tblVehicleEF	SBUS	6.45	3.18
tblVehicleEF	SBUS	2.88	4.33
tblVehicleEF	SBUS	4.9650e-003	3.4992e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0880e-003	8.8247e-005
tblVehicleEF	SBUS	4.7500e-003	3.3478e-003

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tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6390e-003	2.5939e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0000e-003	8.1140e-005
tblVehicleEF	SBUS	3.5410e-003	1.3075e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.04	0.44
tblVehicleEF	SBUS	2.1010e-003	7.7722e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.43	0.05
tblVehicleEF	SBUS	0.01	3.4332e-003
tblVehicleEF	SBUS	0.01	9.9762e-003
tblVehicleEF	SBUS	7.4400e-004	7.1436e-005
tblVehicleEF	SBUS	3.5410e-003	1.3075e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.51	0.63
tblVehicleEF	SBUS	2.1010e-003	7.7722e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.47	0.06
tblVehicleEF	SBUS	0.82	0.10
tblVehicleEF	SBUS	0.01	8.2398e-003
tblVehicleEF	SBUS	0.06	8.0601e-003
tblVehicleEF	SBUS	8.68	3.67
tblVehicleEF	SBUS	0.78	0.77
tblVehicleEF	SBUS	6.64	0.98

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tblVehicleEF	SBUS	1,101.09	366.34
tblVehicleEF	SBUS	1,050.26	1,039.86
tblVehicleEF	SBUS	60.45	6.87
tblVehicleEF	SBUS	6.66	3.25
tblVehicleEF	SBUS	2.72	4.08
tblVehicleEF	SBUS	4.1860e-003	2.9567e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0880e-003	8.8247e-005
tblVehicleEF	SBUS	4.0050e-003	2.8288e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6390e-003	2.5939e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0000e-003	8.1140e-005
tblVehicleEF	SBUS	4.8740e-003	1.7965e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.04	0.44
tblVehicleEF	SBUS	2.8420e-003	1.0457e-003
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.01	3.5052e-003
tblVehicleEF	SBUS	0.01	9.9764e-003
tblVehicleEF	SBUS	7.2000e-004	6.8013e-005
tblVehicleEF	SBUS	4.8740e-003	1.7965e-003
tblVehicleEF	SBUS	0.03	0.01

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tblVehicleEF	SBUS	1.50	0.63
tblVehicleEF	SBUS	2.8420e-003	1.0457e-003
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.42	0.05
tblVehicleEF	SBUS	0.82	0.10
tblVehicleEF	SBUS	0.01	8.1113e-003
tblVehicleEF	SBUS	0.07	9.0985e-003
tblVehicleEF	SBUS	8.88	3.75
tblVehicleEF	SBUS	0.77	0.75
tblVehicleEF	SBUS	8.17	1.21
tblVehicleEF	SBUS	993.88	348.22
tblVehicleEF	SBUS	1,050.26	1,039.83
tblVehicleEF	SBUS	60.45	7.25
tblVehicleEF	SBUS	6.17	3.08
tblVehicleEF	SBUS	2.83	4.25
tblVehicleEF	SBUS	6.0420e-003	4.2484e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0880e-003	8.8247e-005
tblVehicleEF	SBUS	5.7800e-003	4.0646e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6390e-003	2.5939e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0000e-003	8.1140e-005
tblVehicleEF	SBUS	3.4160e-003	1.2549e-003

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tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.04	0.44
tblVehicleEF	SBUS	2.0430e-003	7.5317e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.44	0.05
tblVehicleEF	SBUS	9.7890e-003	3.3340e-003
tblVehicleEF	SBUS	0.01	9.9762e-003
tblVehicleEF	SBUS	7.4600e-004	7.1764e-005
tblVehicleEF	SBUS	3.4160e-003	1.2549e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.51	0.63
tblVehicleEF	SBUS	2.0430e-003	7.5317e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.48	0.06
tblVehicleEF	UBUS	1.41	5.27
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	6.68	41.12
tblVehicleEF	UBUS	10.95	1.81
tblVehicleEF	UBUS	1,771.11	2,017.13
tblVehicleEF	UBUS	140.16	19.55
tblVehicleEF	UBUS	2.86	0.45
tblVehicleEF	UBUS	0.51	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.02	3.1354e-003
tblVehicleEF	UBUS	1.3470e-003	2.0251e-004

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5853e-003
tblVehicleEF	UBUS	0.02	2.9839e-003
tblVehicleEF	UBUS	1.2390e-003	1.8620e-004
tblVehicleEF	UBUS	5.0820e-003	7.8097e-004
tblVehicleEF	UBUS	0.08	7.2003e-003
tblVehicleEF	UBUS	3.3330e-003	4.7193e-004
tblVehicleEF	UBUS	0.27	0.08
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	0.88	0.10
tblVehicleEF	UBUS	8.4160e-003	3.6407e-003
tblVehicleEF	UBUS	1.6000e-003	1.9349e-004
tblVehicleEF	UBUS	5.0820e-003	7.8097e-004
tblVehicleEF	UBUS	0.08	7.2003e-003
tblVehicleEF	UBUS	3.3330e-003	4.7193e-004
tblVehicleEF	UBUS	1.71	5.38
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	0.97	0.11
tblVehicleEF	UBUS	1.41	5.27
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	6.71	41.12
tblVehicleEF	UBUS	9.70	1.61
tblVehicleEF	UBUS	1,771.11	2,017.13
tblVehicleEF	UBUS	140.16	19.20
tblVehicleEF	UBUS	2.69	0.44
tblVehicleEF	UBUS	0.51	0.08
tblVehicleEF	UBUS	0.01	0.03

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

tblVehicleEF	UBUS	0.02	3.1354e-003
tblVehicleEF	UBUS	1.3470e-003	2.0251e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5853e-003
tblVehicleEF	UBUS	0.02	2.9839e-003
tblVehicleEF	UBUS	1.2390e-003	1.8620e-004
tblVehicleEF	UBUS	6.8520e-003	1.0869e-003
tblVehicleEF	UBUS	0.08	7.5211e-003
tblVehicleEF	UBUS	4.4540e-003	6.7240e-004
tblVehicleEF	UBUS	0.27	0.08
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.82	0.10
tblVehicleEF	UBUS	8.4160e-003	3.6407e-003
tblVehicleEF	UBUS	1.5790e-003	1.9002e-004
tblVehicleEF	UBUS	6.8520e-003	1.0869e-003
tblVehicleEF	UBUS	0.08	7.5211e-003
tblVehicleEF	UBUS	4.4540e-003	6.7240e-004
tblVehicleEF	UBUS	1.71	5.38
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.90	0.11
tblVehicleEF	UBUS	1.41	5.27
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	6.67	41.12
tblVehicleEF	UBUS	11.17	1.85
tblVehicleEF	UBUS	1,771.11	2,017.13
tblVehicleEF	UBUS	140.16	19.62
tblVehicleEF	UBUS	2.81	0.44

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

tblVehicleEF	UBUS	0.51	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.02	3.1354e-003
tblVehicleEF	UBUS	1.3470e-003	2.0251e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5853e-003
tblVehicleEF	UBUS	0.02	2.9839e-003
tblVehicleEF	UBUS	1.2390e-003	1.8620e-004
tblVehicleEF	UBUS	5.4900e-003	8.2497e-004
tblVehicleEF	UBUS	0.09	8.0659e-003
tblVehicleEF	UBUS	3.3790e-003	4.6844e-004
tblVehicleEF	UBUS	0.27	0.08
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	0.90	0.10
tblVehicleEF	UBUS	8.4160e-003	3.6407e-003
tblVehicleEF	UBUS	1.6040e-003	1.9411e-004
tblVehicleEF	UBUS	5.4900e-003	8.2497e-004
tblVehicleEF	UBUS	0.09	8.0659e-003
tblVehicleEF	UBUS	3.3790e-003	4.6844e-004
tblVehicleEF	UBUS	1.71	5.38
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	0.98	0.11
tblVehicleTrips	ST_TR	22.75	5.00
tblVehicleTrips	ST_TR	5.67	8.14
tblVehicleTrips	ST_TR	20.87	9.10
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	16.74	5.00

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

tblVehicleTrips	SU_TR	4.84	6.28
tblVehicleTrips	SU_TR	26.73	13.60
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	1.89	5.00
tblVehicleTrips	WD_TR	5.81	7.32
tblVehicleTrips	WD_TR	32.93	28.82
tblVehicleTrips	WD_TR	9.52	9.44

2.0 Emissions Summary

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][illegible]

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.3923	0.1781	7.8476	7.8900e-003		0.4767	0.4767		0.4767	0.4767	50.0292	104.0748	154.1039	0.1568	3.4000e-003	159.0358
Energy	0.0595	0.5102	0.2266	3.2500e-003		0.0411	0.0411		0.0411	0.0411	0.0000	1,664.6107	1,664.6107	0.0557	0.0200	1,671.9594
Mobile	1.5194	3.6719	15.7564	0.0516	5.8358	0.0366	5.8723	1.5610	0.0341	1.5951	0.0000	4,836.0622	4,836.0622	0.2874	0.0000	4,843.2464
Stationary	0.0205	0.0573	0.0523	1.0000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	9.5199	9.5199	1.3300e-003	0.0000	9.5533
Waste						0.0000	0.0000		0.0000	0.0000	114.0444	0.0000	114.0444	6.7398	0.0000	282.5401
Water						0.0000	0.0000		0.0000	0.0000	10.1579	381.7733	391.9312	1.0591	0.0279	426.7212
Total	7.9917	4.4175	23.8829	0.0628	5.8358	0.5574	6.3931	1.5610	0.5549	2.1160	174.2315	6,996.0409	7,170.2724	8.3001	0.0513	7,393.0561

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange 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	6.3923	0.1781	7.8476	7.8900e-003		0.4767	0.4767		0.4767	0.4767	50.0292	104.0748	154.1039	0.1568	3.4000e-003	159.0358
Energy	0.0595	0.5102	0.2266	3.2500e-003		0.0411	0.0411		0.0411	0.0411	0.0000	1,664.6107	1,664.6107	0.0557	0.0200	1,671.9594
Mobile	1.5194	3.6719	15.7564	0.0516	5.8358	0.0366	5.8723	1.5610	0.0341	1.5951	0.0000	4,836.0622	4,836.0622	0.2874	0.0000	4,843.2464
Stationary	0.0205	0.0573	0.0523	1.0000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	9.5199	9.5199	1.3300e-003	0.0000	9.5533
Waste						0.0000	0.0000		0.0000	0.0000	114.0444	0.0000	114.0444	6.7398	0.0000	282.5401
Water						0.0000	0.0000		0.0000	0.0000	10.1579	381.7733	391.9312	1.0591	0.0279	426.7212
Total	7.9917	4.4175	23.8829	0.0628	5.8358	0.5574	6.3931	1.5610	0.5549	2.1160	174.2315	6,996.0409	7,170.2724	8.3001	0.0513	7,393.0561

[illegible]

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

2.3 Vegetation**Vegetation**

	CO2e
Category	MT
Vegetation Land Change	- 1,995.300 4
Total	- 1,995.300 4

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/3/2020	5/7/2021	5	200	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

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

Trips and VMT

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

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

[illegible]

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

3.2 Demolition - 2020

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

3.2 Demolition - 2020

Mitigated Construction Off-Site

[illegible]

3.2 Demolition - 2021

Unmitigated Construction On-Site

[illegible]

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

3.2 Demolition - 2021

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

3.2 Demolition - 2021**Mitigated Construction Off-Site**

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

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.5194	3.6719	15.7564	0.0516	5.8358	0.0366	5.8723	1.5610	0.0341	1.5951	0.0000	4,836.062 2	4,836.062 2	0.2874	0.0000	4,843.246 4
Unmitigated	1.5194	3.6719	15.7564	0.0516	5.8358	0.0366	5.8723	1.5610	0.0341	1.5951	0.0000	4,836.062 2	4,836.062 2	0.2874	0.0000	4,843.246 4

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	210.50	210.50	210.50	605,722	605,722
Condo/Townhouse	1,420.08	1,579.16	1218.32	4,831,794	4,831,794
Health Club	648.45	204.75	306.00	1,146,687	1,146,687
Single Family Housing	2,614.88	2,642.58	2368.35	8,828,617	8,828,617
Total	4,893.91	4,636.99	4,103.17	15,412,820	15,412,820

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,075.3962	1,075.3962	0.0444	9.1900e-003	1,079.2435
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,075.3962	1,075.3962	0.0444	9.1900e-003	1,079.2435
NaturalGas Mitigated	0.0595	0.5102	0.2266	3.2500e-003		0.0411	0.0411		0.0411	0.0411	0.0000	589.2145	589.2145	0.0113	0.0108	592.7159
NaturalGas Unmitigated	0.0595	0.5102	0.2266	3.2500e-003		0.0411	0.0411		0.0411	0.0411	0.0000	589.2145	589.2145	0.0113	0.0108	592.7159

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange 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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.42325e+006	0.0185	0.1577	0.0671	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	182.6778	182.6778	3.5000e-003	3.3500e-003	183.7633
Health Club	470250	2.5400e-003	0.0231	0.0194	1.4000e-004		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003	0.0000	25.0943	25.0943	4.8000e-004	4.6000e-004	25.2435
Single Family Housing	7.14796e+006	0.0385	0.3294	0.1402	2.1000e-003		0.0266	0.0266		0.0266	0.0266	0.0000	381.4424	381.4424	7.3100e-003	6.9900e-003	383.7091
Total		0.0595	0.5102	0.2266	3.2500e-003		0.0411	0.0411		0.0411	0.0411	0.0000	589.2145	589.2145	0.0113	0.0108	592.7159

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange 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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.42325e+006	0.0185	0.1577	0.0671	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	182.6778	182.6778	3.5000e-003	3.3500e-003	183.7633
Health Club	470250	2.5400e-003	0.0231	0.0194	1.4000e-004		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003	0.0000	25.0943	25.0943	4.8000e-004	4.6000e-004	25.2435
Single Family Housing	7.14796e+006	0.0385	0.3294	0.1402	2.1000e-003		0.0266	0.0266		0.0266	0.0266	0.0000	381.4424	381.4424	7.3100e-003	6.9900e-003	383.7091
Total		0.0595	0.5102	0.2266	3.2500e-003		0.0411	0.0411		0.0411	0.0411	0.0000	589.2145	589.2145	0.0113	0.0108	592.7159

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	963893	307.1169	0.0127	2.6200e-003	308.2156
Health Club	190125	60.5779	2.5000e-003	5.2000e-004	60.7946
Single Family Housing	2.22114e+006	707.7014	0.0292	6.0400e-003	710.2332
Total		1,075.3962	0.0444	9.1800e-003	1,079.2435

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	963893	307.1169	0.0127	2.6200e-003	308.2156
Health Club	190125	60.5779	2.5000e-003	5.2000e-004	60.7946
Single Family Housing	2.22114e+006	707.7014	0.0292	6.0400e-003	710.2332
Total		1,075.3962	0.0444	9.1800e-003	1,079.2435

6.0 Area Detail**6.1 Mitigation Measures Area**

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.3923	0.1781	7.8476	7.8900e-003		0.4767	0.4767		0.4767	0.4767	50.0292	104.0748	154.1039	0.1568	3.4000e-003	159.0358
Unmitigated	6.3923	0.1781	7.8476	7.8900e-003		0.4767	0.4767		0.4767	0.4767	50.0292	104.0748	154.1039	0.1568	3.4000e-003	159.0358

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3766					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3272					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.5427	0.1222	2.9941	7.6400e-003		0.4497	0.4497		0.4497	0.4497	50.0292	96.1389	146.1681	0.1492	3.4000e-003	150.9099
Landscaping	0.1458	0.0559	4.8535	2.6000e-004		0.0269	0.0269		0.0269	0.0269	0.0000	7.9359	7.9359	7.6000e-003	0.0000	8.1259
Total	6.3923	0.1781	7.8476	7.9000e-003		0.4767	0.4767		0.4767	0.4767	50.0292	104.0748	154.1039	0.1568	3.4000e-003	159.0358

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange 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	0.3766					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3272					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.5427	0.1222	2.9941	7.6400e-003		0.4497	0.4497		0.4497	0.4497	50.0292	96.1389	146.1681	0.1492	3.4000e-003	150.9099
Landscaping	0.1458	0.0559	4.8535	2.6000e-004		0.0269	0.0269		0.0269	0.0269	0.0000	7.9359	7.9359	7.6000e-003	0.0000	8.1259
Total	6.3923	0.1781	7.8476	7.9000e-003		0.4767	0.4767		0.4767	0.4767	50.0292	104.0748	154.1039	0.1568	3.4000e-003	159.0358

7.0 Water Detail**7.1 Mitigation Measures Water**

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	391.9312	1.0591	0.0279	426.7212
Unmitigated	391.9312	1.0591	0.0279	426.7212

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 50.1614	177.5654	7.3300e-003	1.5200e-003	178.2007
Condo/Townhouse	12.6399 / 7.96862	84.6580	0.4152	0.0104	98.1414
Health Club	1.33072 / 0.815603	8.8302	0.0437	1.1000e-003	10.2494
Single Family Housing	18.0477 / 11.3779	120.8777	0.5928	0.0149	140.1297
Total		391.9312	1.0591	0.0279	426.7212

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 50.1614	177.5654	7.3300e-003	1.5200e-003	178.2007
Condo/Townhouse	12.6399 / 7.96862	84.6580	0.4152	0.0104	98.1414
Health Club	1.33072 / 0.815603	8.8302	0.0437	1.1000e-003	10.2494
Single Family Housing	18.0477 / 11.3779	120.8777	0.5928	0.0149	140.1297
Total		391.9312	1.0591	0.0279	426.7212

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	114.0444	6.7398	0.0000	282.5401
Unmitigated	114.0444	6.7398	0.0000	282.5401

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	3.62	0.7348	0.0434	0.0000	1.8205
Condo/Townhouse	89.24	18.1149	1.0706	0.0000	44.8789
Health Club	128.25	26.0336	1.5385	0.0000	64.4971
Single Family Housing	340.71	69.1611	4.0873	0.0000	171.3436
Total		114.0444	6.7398	0.0000	282.5401

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	3.62	0.7348	0.0434	0.0000	1.8205
Condo/Townhouse	89.24	18.1149	1.0706	0.0000	44.8789
Health Club	128.25	26.0336	1.5385	0.0000	64.4971
Single Family Housing	340.71	69.1611	4.0873	0.0000	171.3436
Total		114.0444	6.7398	0.0000	282.5401

9.0 Operational Offroad

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

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	500	0.73	Diesel

Boilers

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

User Defined Equipment

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

Equipment Type	Number
----------------	--------

10.1 Stationary Sources**Unmitigated/Mitigated**

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

11.0 Vegetation

Rancho La Habra - Residential Option (Operations - Unmitigated) - Orange County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	- 1,995.300 4	0.0000	0.0000	- 1,995.300 4

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	67.79 / 14.25	-230.7574	0.0000	0.0000	-230.7574
Scrub	25.74 / 54.33	408.8370	0.0000	0.0000	408.8370
Trees	44.51 / 24.93	- 2,173.380 0	0.0000	0.0000	- 2,173.380 0
Total		- 1,995.300 4	0.0000	0.0000	- 1,995.300 4

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APPENDIX 3.4:

CALEEMOD EXISTING USE OPERATIONS EMISSIONS MODEL OUTPUTS

Existing Westridge Golf Course - Orange County, Annual

Existing Westridge Golf Course

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	100.10	1000sqft	2.30	100,100.00	0
Golf Course	18.00	Hole	125.66	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Existing Westridge Golf Course - Orange County, Annual

Project Characteristics -

Land Use -

Construction Phase - Operation only

Off-road Equipment -

Off-road Equipment - Operation only

Trips and VMT - Operations only

On-road Fugitive Dust - Operation only

Vehicle Trips - Trip generation based on TIA (Linscott Law & Greenspan Engineers) 2019

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products -

Area Coating -

Energy Use -

Water And Wastewater - WSA

Fleet Mix -

Existing Westridge Golf Course - Orange County, Annual

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstructionPhase	NumDays	200.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblVehicleTrips	ST_TR	40.63	30.39
tblVehicleTrips	SU_TR	39.53	30.39
tblVehicleTrips	WD_TR	35.74	30.39
tblWater	OutdoorWaterUseRate	149,721,308.10	89,934,860.30

2.0 Emissions Summary

Existing Westridge Golf Course - Orange County, Annual

2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][illegible]

Existing Westridge Golf Course - Orange County, Annual

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0995	1.0000e-005	1.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9300e-003	2.9300e-003	1.0000e-005	0.0000	3.1300e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	11.1629	11.1629	4.6000e-004	1.0000e-004	11.2028
Mobile	0.1555	0.6454	1.8775	6.0500e-003	0.5052	6.9700e-003	0.5122	0.1353	6.5600e-003	0.1419	0.0000	555.6923	555.6923	0.0258	0.0000	556.3382
Waste						0.0000	0.0000		0.0000	0.0000	0.4872	0.0000	0.4872	0.0288	0.0000	1.2070
Water						0.0000	0.0000		0.0000	0.0000	0.0000	318.3590	318.3590	0.0131	2.7200e-003	319.4979
Total	0.2550	0.6454	1.8790	6.0500e-003	0.5052	6.9800e-003	0.5122	0.1353	6.5700e-003	0.1419	0.4872	885.2171	885.7043	0.0682	2.8200e-003	888.2491

Existing Westridge Golf Course - Orange 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	0.0995	1.0000e-005	1.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9300e-003	2.9300e-003	1.0000e-005	0.0000	3.1300e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	11.1629	11.1629	4.6000e-004	1.0000e-004	11.2028
Mobile	0.1555	0.6454	1.8775	6.0500e-003	0.5052	6.9700e-003	0.5122	0.1353	6.5600e-003	0.1419	0.0000	555.6923	555.6923	0.0258	0.0000	556.3382
Waste						0.0000	0.0000		0.0000	0.0000	0.4872	0.0000	0.4872	0.0288	0.0000	1.2070
Water						0.0000	0.0000		0.0000	0.0000	0.0000	318.3590	318.3590	0.0131	2.7200e-003	319.4979
Total	0.2550	0.6454	1.8790	6.0500e-003	0.5052	6.9800e-003	0.5122	0.1353	6.5700e-003	0.1419	0.4872	885.2171	885.7043	0.0682	2.8200e-003	888.2491

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	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	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

Existing Westridge Golf Course - Orange County, Annual

Acres of Grading (Grading Phase): 0**Acres of Paving: 2.3****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

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

Trips and VMT

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

3.1 Mitigation Measures Construction

Existing Westridge Golf Course - Orange County, Annual

3.2 Demolition - 2017

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Existing Westridge Golf Course - Orange County, Annual

3.2 Demolition - 2017**Mitigated Construction On-Site**

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

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

Existing Westridge Golf Course - Orange County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1555	0.6454	1.8775	6.0500e-003	0.5052	6.9700e-003	0.5122	0.1353	6.5600e-003	0.1419	0.0000	555.6923	555.6923	0.0258	0.0000	556.3382
Unmitigated	0.1555	0.6454	1.8775	6.0500e-003	0.5052	6.9700e-003	0.5122	0.1353	6.5600e-003	0.1419	0.0000	555.6923	555.6923	0.0258	0.0000	556.3382

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Golf Course	547.02	547.02	547.02	1,332,274	1,332,274
Parking Lot	0.00	0.00	0.00		
Total	547.02	547.02	547.02	1,332,274	1,332,274

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Golf Course	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Existing Westridge Golf Course - Orange County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Golf Course	0.552373	0.044229	0.211123	0.119112	0.017503	0.005797	0.024455	0.015685	0.001637	0.001633	0.004830	0.000583	0.001041
Parking Lot	0.552373	0.044229	0.211123	0.119112	0.017503	0.005797	0.024455	0.015685	0.001637	0.001633	0.004830	0.000583	0.001041

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

[illegible]

Existing Westridge Golf Course - Orange County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

Existing Westridge Golf Course - Orange County, Annual

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Golf Course	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	35035	11.1629	4.6000e-004	1.0000e-004	11.2028
Total		11.1629	4.6000e-004	1.0000e-004	11.2028

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Golf Course	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	35035	11.1629	4.6000e-004	1.0000e-004	11.2028
Total		11.1629	4.6000e-004	1.0000e-004	11.2028

6.0 Area Detail**6.1 Mitigation Measures Area**

Existing Westridge Golf Course - Orange County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0995	1.0000e-005	1.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9300e-003	2.9300e-003	1.0000e-005	0.0000	3.1300e-003
Unmitigated	0.0995	1.0000e-005	1.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9300e-003	2.9300e-003	1.0000e-005	0.0000	3.1300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0118					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0876					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9300e-003	2.9300e-003	1.0000e-005	0.0000	3.1300e-003
Total	0.0995	1.0000e-005	1.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9300e-003	2.9300e-003	1.0000e-005	0.0000	3.1300e-003

Existing Westridge Golf Course - Orange 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	0.0118					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0876					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9300e-003	2.9300e-003	1.0000e-005	0.0000	3.1300e-003
Total	0.0995	1.0000e-005	1.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9300e-003	2.9300e-003	1.0000e-005	0.0000	3.1300e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

Existing Westridge Golf Course - Orange County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	318.3590	0.0131	2.7200e-003	319.4979
Unmitigated	318.3590	0.0131	2.7200e-003	319.4979

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Golf Course	0 / 89.9349	318.3590	0.0131	2.7200e-003	319.4979
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		318.3590	0.0131	2.7200e-003	319.4979

Existing Westridge Golf Course - Orange County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Golf Course	0 / 89.9349	318.3590	0.0131	2.7200e-003	319.4979
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		318.3590	0.0131	2.7200e-003	319.4979

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.4872	0.0288	0.0000	1.2070
Unmitigated	0.4872	0.0288	0.0000	1.2070

Existing Westridge Golf Course - Orange County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Golf Course	2.4	0.4872	0.0288	0.0000	1.2070
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.4872	0.0288	0.0000	1.2070

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Golf Course	2.4	0.4872	0.0288	0.0000	1.2070
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.4872	0.0288	0.0000	1.2070

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Existing Westridge Golf Course - Orange County, Annual

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 3.5:
EMFAC2017 MODEL OUTPUTS

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: County

Region: ORANGE

Calendar Year: 2026

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
ORANGE	2026	HHDT	Aggregated	Aggregated	GAS	10.89892787	1471.021439	0.307739798	307.7397983	199384.2439	1471.021439	1403842.723	7.04	HHDT
ORANGE	2026	HHDT	Aggregated	Aggregated	DSL	11798.13949	1355293.432	179.4720136	179472.0136		1355293.432			
ORANGE	2026	HHDT	Aggregated	Aggregated	NG	1155.748772	47078.26987	19.60449055	19604.49055		47078.26987			
ORANGE	2026	LDA	Aggregated	Aggregated	GAS	1375402.577	50488092.46	1421.461259	1421461.259	1431739.579	50488092.46	53154891.85	37.13	LDA
ORANGE	2026	LDA	Aggregated	Aggregated	DSL	15105.12937	569113.8968	10.2783195	10278.3195		569113.8968			
ORANGE	2026	LDA	Aggregated	Aggregated	ELEC	49504.09753	2097685.496	0	0		2097685.496			
ORANGE	2026	LDT1	Aggregated	Aggregated	GAS	156940.2243	5529611.644	183.2670815	183267.0815	183298.5364	5529611.644	5641820.218	30.78	LDT1
ORANGE	2026	LDT1	Aggregated	Aggregated	DSL	37.2663369	869.9785756	0.031454869	31.45486858		869.9785756			
ORANGE	2026	LDT1	Aggregated	Aggregated	ELEC	2536.201416	111338.595	0	0		111338.595			
ORANGE	2026	LDT2	Aggregated	Aggregated	GAS	470657.5824	16736777.16	580.8057925	580805.7925	584449.7092	16736777.16	17171443.8	29.38	LDT2
ORANGE	2026	LDT2	Aggregated	Aggregated	DSL	3795.675231	147398.6061	3.643916677	3643.916677		147398.6061			
ORANGE	2026	LDT2	Aggregated	Aggregated	ELEC	9495.505976	287268.0396	0	0		287268.0396			
ORANGE	2026	LHDT1	Aggregated	Aggregated	GAS	35014.63413	1232632.269	110.2492528	110249.2528	157756.0642	1232632.269	2323563.397	14.73	LHDT1
ORANGE	2026	LHDT1	Aggregated	Aggregated	DSL	28439.60226	1090931.128	47.50681144	47506.81144		1090931.128			
ORANGE	2026	LHDT2	Aggregated	Aggregated	GAS	6400.775591	214888.2583	22.1831608	22183.1608	42567.10516	214888.2583	637085.8018	14.97	LHDT2
ORANGE	2026	LHDT2	Aggregated	Aggregated	DSL	11315.15457	422197.5435	20.38394437	20383.94437		422197.5435			
ORANGE	2026	MCY	Aggregated	Aggregated	GAS	65409.82602	439323.6121	11.8621431	11862.1431	11862.1431	439323.6121	439323.6121	37.04	MCY
ORANGE	2026	MDV	Aggregated	Aggregated	GAS	314070.8633	10720008.37	462.5181497	462518.1497	473033.0168	10720008.37	11230632.7	23.74	MDV
ORANGE	2026	MDV	Aggregated	Aggregated	DSL	8670.745819	323109.587	10.5148671	10514.8671		323109.587			
ORANGE	2026	MDV	Aggregated	Aggregated	ELEC	6029.465992	187514.7448	0	0		187514.7448			
ORANGE	2026	MH	Aggregated	Aggregated	GAS	6578.011152	63108.25908	11.40829125	11408.29125	14016.69165	63108.25908	91772.16266	6.55	MH
ORANGE	2026	MH	Aggregated	Aggregated	DSL	3219.505926	28663.90358	2.608400405	2608.400405		28663.90358			
ORANGE	2026	MHDT	Aggregated	Aggregated	GAS	7322.231	339211.553	64.03925333	64039.25333	232598.2952	339211.553	2348479.534	10.10	MHDT
ORANGE	2026	MHDT	Aggregated	Aggregated	DSL	31754.57521	2009267.981	168.5590419	168559.0419		2009267.981			
ORANGE	2026	OBUS	Aggregated	Aggregated	GAS	1034.022105	43039.61398	7.848857929	7848.857929	13407.74523	43039.61398	95051.70392	7.09	OBUS
ORANGE	2026	OBUS	Aggregated	Aggregated	DSL	715.4490153	52012.08994	5.5588873	5558.8873		52012.08994			
ORANGE	2026	SBUS	Aggregated	Aggregated	GAS	642.8313907	25684.51533	2.701674158	2701.674158	7469.208055	25684.51533	63253.40567	8.47	SBUS
ORANGE	2026	SBUS	Aggregated	Aggregated	DSL	1192.099266	37568.89034	4.767533897	4767.533897		37568.89034			
ORANGE	2026	UBUS	Aggregated	Aggregated	GAS	217.2792479	20527.18262	4.678421854	4678.421854	27599.81943	20527.18262	109083.1146	3.95231262	UBUS
ORANGE	2026	UBUS	Aggregated	Aggregated	DSL	0	0	0	0		0			
ORANGE	2026	UBUS	Aggregated	Aggregated	NG	764.5947123	88555.93202	22.92139757	22921.39757		88555.93202			

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APPENDIX 3.6:
EMFAC2014 MODEL OUTPUTS

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Orange

Calendar Year: 2019

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	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
ORANGE	2019	HHDT	Aggregated	Aggregated	GAS	116.3468385	3.082809458	3082.809458	226978.1169	14562.77812	1257645.635	5.54	HHDT
ORANGE	2019	HHDT	Aggregated	Aggregated	DSL	9853.943425	223.8953074	223895.3074		1243082.856			
ORANGE	2019	LDA	Aggregated	Aggregated	GAS	1287973.135	1539.799481	1539799.481	1551534.971	42902183.4	44291060.28	28.55	LDA
ORANGE	2019	LDA	Aggregated	Aggregated	DSL	12137.73756	11.73548967	11735.48967		433550.3209			
ORANGE	2019	LDA	Aggregated	Aggregated	ELEC	21051.06871	0	0		955326.5612			
ORANGE	2019	LDT1	Aggregated	Aggregated	GAS	103558.1615	149.5605674	149560.5674	149642.6378	3542285.63	3546392.734	23.70	LDT1
ORANGE	2019	LDT1	Aggregated	Aggregated	DSL	97.41783467	0.082070455	82.07045487		2333.480211			
ORANGE	2019	LDT1	Aggregated	Aggregated	ELEC	57.08889236	0	0		1773.623345			
ORANGE	2019	LDT2	Aggregated	Aggregated	GAS	439364.9268	812.4915966	812491.5966	813570.6843	16897930.62	16928573.8	20.81	LDT2
ORANGE	2019	LDT2	Aggregated	Aggregated	DSL	688.6376482	1.079087688	1079.087688		30643.18129			
ORANGE	2019	LHDT1	Aggregated	Aggregated	GAS	25618.32448	67.41109634	67411.09634	100126.2608	740722.5221	1403409.132	14.02	LHDT1
ORANGE	2019	LHDT1	Aggregated	Aggregated	DSL	18583.92608	32.71516447	32715.16447		662686.6101			
ORANGE	2019	LHDT2	Aggregated	Aggregated	GAS	5168.101219	17.26849982	17268.49982	32862.32208	175805.4916	464823.7978	14.14	LHDT2
ORANGE	2019	LHDT2	Aggregated	Aggregated	DSL	7361.347662	15.59382226	15593.82226		289018.3062			
ORANGE	2019	MCY	Aggregated	Aggregated	GAS	57478.96252	10.70630777	10706.30777	10706.30777	387314.6838	387314.6838	36.18	MCY
ORANGE	2019	MDV	Aggregated	Aggregated	GAS	299671.1332	612.0892495	612089.2495	619544.6883	9388677.869	9550823.544	15.42	MDV
ORANGE	2019	MDV	Aggregated	Aggregated	DSL	4199.418903	7.455438765	7455.438765		162145.675			
ORANGE	2019	MH	Aggregated	Aggregated	GAS	7913.986174	8.645593979	8645.593979	10633.90658	63309.04802	83496.27353	7.85	MH
ORANGE	2019	MH	Aggregated	Aggregated	DSL	2439.088234	1.988312601	1988.312601		20187.22551			
ORANGE	2019	MHDT	Aggregated	Aggregated	GAS	4562.697712	29.26882634	29268.82634	232028.9801	202881.9805	1960898.278	8.45	MHDT
ORANGE	2019	MHDT	Aggregated	Aggregated	DSL	30996.9844	202.7601538	202760.1538		1758016.297			
ORANGE	2019	OBUS	Aggregated	Aggregated	GAS	1484.146317	9.73360132	9733.60132	18181.07548	70149.1985	131253.0999	7.22	OBUS
ORANGE	2019	OBUS	Aggregated	Aggregated	DSL	732.4110488	8.447474164	8447.474164		61103.90142			
ORANGE	2019	SBUS	Aggregated	Aggregated	GAS	365.4287921	1.242683449	1242.683449	5780.007311	14044.89914	46718.98841	8.08	SBUS
ORANGE	2019	SBUS	Aggregated	Aggregated	DSL	854.8719589	4.537323862	4537.323862		32674.08927			
ORANGE	2019	UBUS	Aggregated	Aggregated	GAS	479.7738821	11.0344842	11034.4842	26087.96083	54725.79329	130907.614	5.02	UBUS
ORANGE	2019	UBUS	Aggregated	Aggregated	DSL	667.8760718	15.05347663	15053.47663		76181.82067			

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