



Towne Centre View

ENERGY ANALYSIS

CITY OF SAN DIEGO

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LIST OF ABBREVIATED TERMS

%	Percent
(1)	Reference
BACM	Best Available Control Measures
BTU	British Thermal Units
CalEEMod	California Emissions Estimator Model
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CAP	Climate Action Plan
CAP Checklist	Climate Action Plan Consistency Checklist
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
City	City of San Diego
CPEP	Clean Power and Electrification Pathway
CPUC	California Public Utilities Commission
DMV	Department of Motor Vehicles
EMFAC	Emissions Factor
EV	Electric Vehicles
FERC	Federal Energy Regulatory Commission
GWh	Gigawatt Hour
HHDT	Heavy-Heavy-Duty Trucks
IEPR	Integrative Energy Policy Report
ISO	Independent Service Operator
ISTEA	Intermodal Surface Transportation Efficiency Act
ITE	Institute of Transportation Engineers
kBTU/yr	Kilo-British Thermal Units Per Year
kWh	Kilowatt Hours
kWh/yr	Kilowatt Hours Per Year
LDA	Light Duty Auto
LHDT1/LHDT2	Light-Heavy-Duty Trucks
MHDT	Medium-Heavy-Duty Trucks
mpg	Miles Per Gallon
Project	Towne Centre View
SCAB	South Coast Air Basin
SDAB	San Diego Air Basin
SDG&E	San Diego Gas and Electric

sf	Square Feet
SoCalGas	Southern California Gas
TAC	Toxic Air Contaminants
TEA-21	Transportation Equity Act for the 21 st Century
VMT	Vehicle Miles Traveled

EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Towne Centre View 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: Would the Project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation?	4.6	<i>Less Than Significant</i>	<i>n/a</i>
Energy Impact #2: Would the Project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	4.6	<i>Less Than Significant</i>	<i>n/a</i>
Energy Impact #3: Would the Project achieve the goal of energy conservation by: <ul style="list-style-type: none"> • Decreasing overall per capita energy consumption. • Decreasing reliance on fossil fuels such as coal, natural gas, and oil. • Increasing reliance on renewable energy sources. 	4.6	<i>Less Than Significant</i>	<i>n/a</i>

ES.2 PROJECT REQUIREMENTS

The Project would be required to comply with regulations imposed by the federal and state agencies that regulate energy use and consumption through various means and programs. Those that are directly and indirectly applicable to the Project and that would assist in the reduction of energy usage are further discussed in Section 3.0 and include:

- Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA)
- The Transportation Equity Act for the 21st Century (TEA-21)
- Integrated Energy Policy Report (IEPR)
- State of California Energy Plan
- California Code Title 24, Part 6, Energy Efficiency Standards

- AB 1493 Pavley Regulations and Fuel Efficiency Standards
- California's Renewable Portfolio Standard (RPS)
- Clean Energy and Pollution Reduction Act of 2015 (SB 350)

Consistency with the above regulations is discussed in detail in Section 4.6 of this EA.

1 INTRODUCTION

This report presents the results of the energy analysis prepared by Urban Crossroads, Inc., for the proposed Towne Centre View (Project). The purpose of this report is to ensure that energy implication is considered by the City of San Diego, 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 Towne Centre View site is located at the end Towne Centre Drive, as shown on Exhibit 1-A. The Project site is located north of the Eastgate Technology Park area and is designated Scientific Research land use in the University Community Plan (Subarea 11). Interstate 805 is located approximately 1,500 feet east and I-5 is located approximately 2,900 feet west of the Project site. The eastern portion of the Project site is currently developed with 192,365 square feet of research and development and a 7,370 sf covered courtyard. Based on a review of historical aerial photographs, the existing land uses have been on-site since 2002 with one structure constructed in 2007. The western portion of the Project site is entitled for 190,000 sf of research and development (R&D) uses (pursuant to Coastal Development Permit 117798 and Site Development Permit 2758) and is currently being used as a staging area for the Mid-Coast Trolley construction. The nearest airport is the Marine Air Corps Station (MCAS) Miramar, which is located roughly 3 miles southeast of the Project site.

1.2 PROJECT DESCRIPTION

Exhibit 1-B illustrates the preliminary site plan. The Project involves redevelopment of the Project site with a five (5)-buildings campus. The proposed land uses include research, laboratory, technology, and office land uses. Buildings A through E would have a gross floor area (GFA) of 999,386 sf, with additional area consisting of balcony and roof deck space. A podium parking structure would be provided generally in the southern portion of the Project site (primarily subterranean under the proposed Buildings A through D), and a parking garage would be provided in the eastern portion of the Project site.

At the time this energy study was prepared, the future tenants of the proposed Project are unknown. This analysis is intended to describe energy usage associated with the expected typical operational activities at the Project site. The Project is anticipated to generate a net total of 6,461 trip-ends per day with 1,034 AM peak hour trips and 905 PM peak hour trips (2).

EXHIBIT 1-A: LOCATION MAP

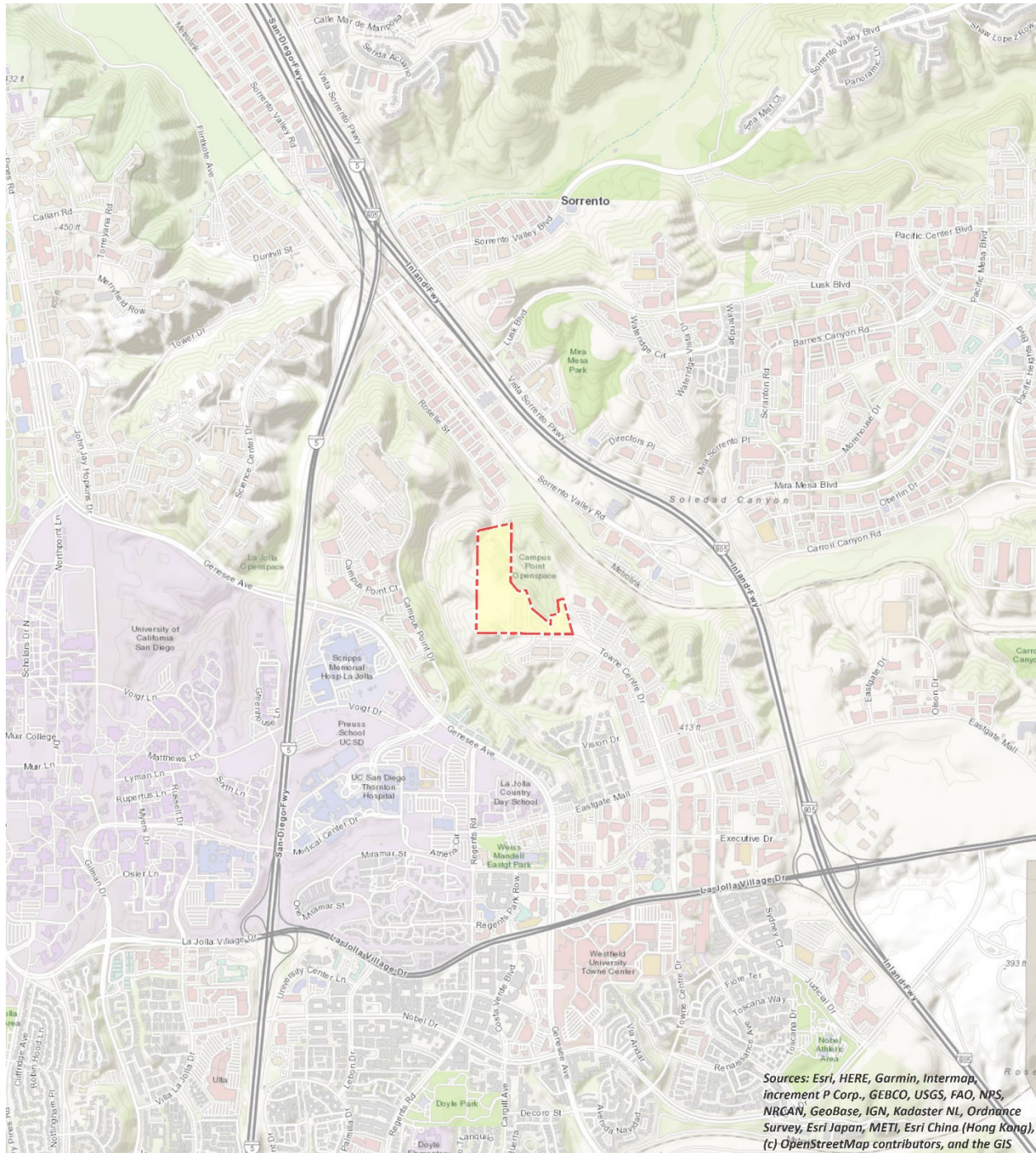
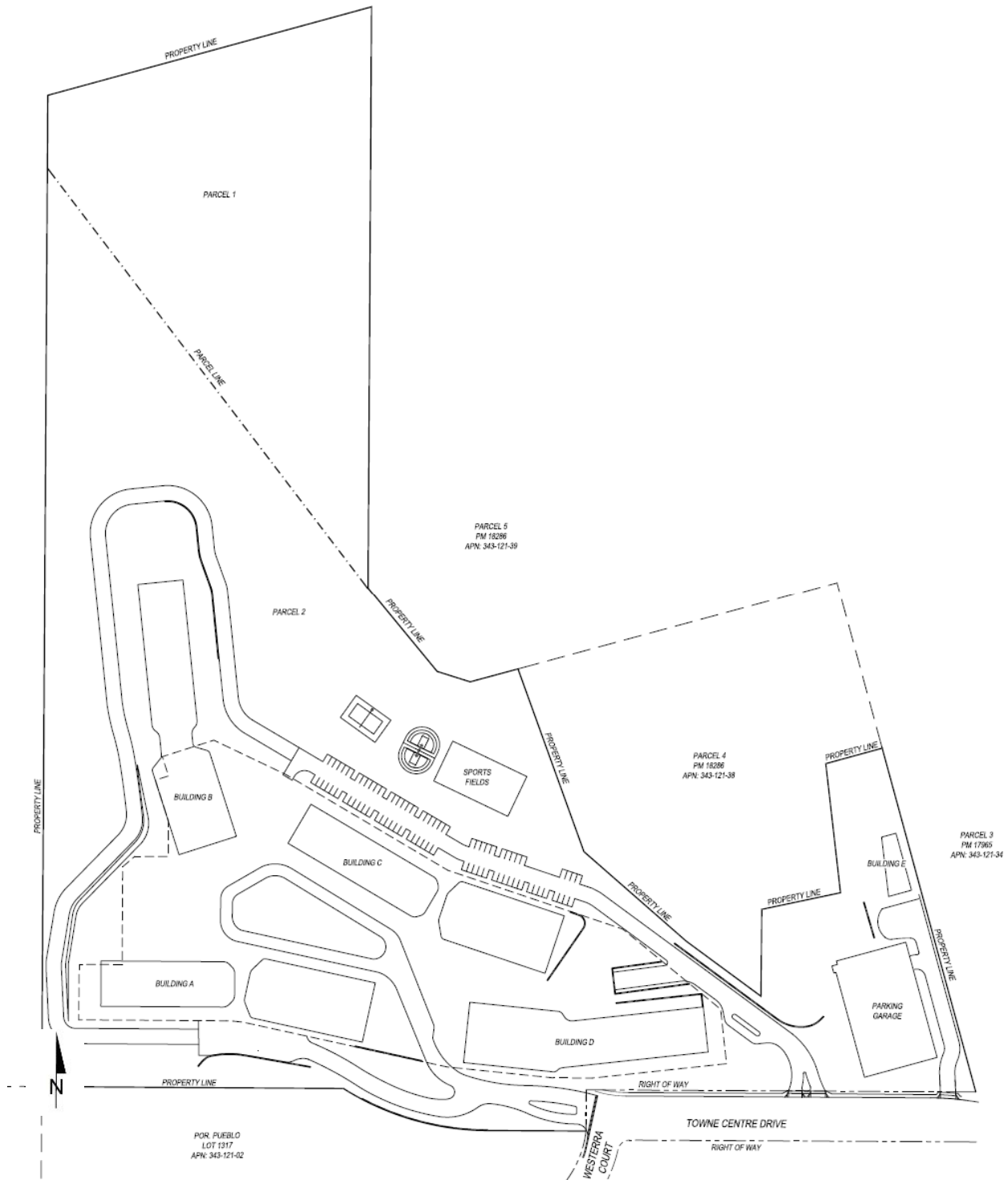


EXHIBIT 1-B: CONCEPTUAL SITE PLAN



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2 EXISTING CONDITIONS

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

2.1 OVERVIEW

The most recent data for California's estimated total energy consumption and natural gas consumption is from 2018, released by the United States (U.S.) Energy Information Administration's (EIA) California State Profile and Energy Estimates in 2020 and included (3):

- Approximately 7,967 trillion British Thermal Unit (BTU) of energy was consumed
- Approximately 681 million barrels of petroleum
- Approximately 2,137 billion cubic feet of natural gas
- Approximately 1 million short tons of coal

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

- Gasoline demand in the transportation sector is expected to decline from approximately 15.8 billion gallons in 2017 to between 12.3 billion and 12.7 billion gallons in 2030 (4)
- Diesel demand in the transportation sector is expected to rise, increasing from approximately 3.7 billion diesel gallons in 2015 to approximately 4.7 billion in 2030 (4)
 - Data from the Department of Energy states that approximately 3.9 billion gallons of diesel fuel were consumed in 2017 (5)

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

- Approximately 40.3% transportation;
- Approximately 23.1% industrial;
- Approximately 18.0% residential; and
- Approximately 18.7% commercial (6)

In 2019, total system electric generation for California was 277,704 gigawatt hours (GWh). California's massive electricity in-state generation system generated approximately 200,475 GWh which accounted for approximately 72% of the electricity it uses; the rest was imported from the Pacific Northwest (9%) and the U.S. Southwest (19%) (7). Natural gas is the main source for electricity generation at 47% of the total in-state electric generation system power as shown in Table 2-1.

TABLE 2-1: TOTAL ELECTRICITY SYSTEM POWER (CALIFORNIA 2019)

Fuel Type	California In-State Generation (GWh)	Percent of California In-State Generation	Northwest Imports (GWh)	Southwest Imports (GWh)	Total Imports (GWh)	Percent of Imports	Total California Energy Mix	Total California Power Mix
Coal	248	0.12%	219	7,765	7,985	10.34%	8,233	2.96%
Natural Gas	86,136	42.97%	46	8,859	8,906	11.53%	95,042	34.22%
Oil	36	0.02%	0	0	0	0.00%	36	0.01%
Other (Waste Heat/Petroleum Coke)	411	0.20%	0	11	11	0.01%	422	0.15%
Nuclear	16,163	8.06%	0	8,743	8,743	11.32%	24,906	8.97%
Large Hydro	33,145	16.53%	5,071	1,071	6,142	7.95%	39,287	14.15%
Unspecified	0	0.00%	7,979	13,767	21,746	28.16%	21,746	7.83%
Non-Renewable and Unspecified Totals	136,139	67.91%	13,315	40,218	53,533	69.32%	189,672	68.30%
Biomass	5,851	2.92%	903	33	936	1.21%	6,787	2.44%
Geothermal	10,943	5.46%	99	2,218	2,318	3.00%	13,260	4.77%
Small Hydro	5,349	2.67%	292	4	296	0.38%	5,646	2.03%
Solar	28,513	14.22%	282	5,295	5,577	7.22%	34,090	12.28%
Wind	13,680	6.82%	9,038	5,531	14,569	18.87%	28,249	10.17%
Renewable Totals	64,336	32.09%	10,615	13,081	23,696	30.68%	88,032	31.70%
System Totals	200,475	100.00%	23,930	53,299	77,229	100.00%	277,704	100.00%

Source: California Energy Commission's 2019 Total System Electric Generation

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

- California was the seventh-largest producer of crude oil among the 50 states in 2018, and, as of January 2019, it ranked third in oil refining capacity.
- California is the largest consumer of jet fuel among the 50 states and accounted for one-fifth of the nation’s jet fuel consumption in 2018. (8)
- California's total energy consumption is second highest in the nation, but, in 2018, the state's per capita energy consumption was the fourth-lowest, due in part to its mild climate and its energy efficiency programs. (9)
- In 2018, California ranked first in the nation as a producer of electricity from solar, geothermal, and biomass resources and fourth in the nation in conventional hydroelectric power generation.
- In 2018, large- and small-scale solar photovoltaic (PV) and solar thermal installations provided 19% of California’s net electricity generation (10).

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

2.2 ELECTRICITY

The usage associated with electricity use were calculated using the California Emissions Estimator Model (CalEEMod) Version 2016.3.2. 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 revealed the extent to which the South California Air Basin (SCAB) and the San Diego Air Basin (SDAB) region were vulnerable to low-voltage and post-transient voltage instability concerns. A preliminary plan to address these issues was detailed in the 2013 Integrative Energy Policy Report (IEPR) after a collaborative process with other energy agencies, utilities, and air districts (11). Similarly, the subsequent 2018 and 2019 IEPR’s identify broad strategies that are aimed at maintaining electricity system reliability.

Electricity is provided to the Project by San Diego Gas and Electric (SDG&E). SDG&E provides electric power to more than 3.6 million persons in San Diego and Orange counties, within a service area encompassing approximately 4,100 square miles. Based on SDG&E’s 2018 Power Content Label Mix, SDG&E derives electricity from varied energy resources including: fossil fuels, hydroelectric generators, nuclear power plants, geothermal power plants, solar power

generation, and wind farms. SDG&E also purchases from independent power producers and utilities, including out-of-state suppliers (12).

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

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

Table 2-2 identifies SDG&E's specific proportional shares of electricity sources in 2018, the most current reported values. As indicated in Table 2-2, the 2018 SDG&E Power Mix has renewable energy at 43% of the overall energy resources. Biomass and biowaste resources are at 2%, geothermal resources are at 8%, wind power is at 21%, solar energy is at 21%. Natural gas and Unspecified sources of power represent 29% and 27%, respectively. There is also less than 1% from other sources. (14).

TABLE 2-2: SDG&E 2018 POWER CONTENT MIX

Energy Resources	2018 SDG&E Power Mix
Eligible Renewable	43%
Biomass & waste	2%
Geothermal	8%
Small Hydroelectric	0%
Solar	20%
Wind	21%
Coal	0%
Large Hydroelectric	0%
Natural Gas	29%
Nuclear	0%
Other	<1%
Unspecified Sources of power*	27%
Total	100%

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

2.3 NATURAL GAS

The following summary of natural gas customers & volumes, supplies, delivery of supplies, storage, service options, and operations is excerpted from information provided by the California Public Utilities Commission (CPUC).

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

California's natural gas utilities provide service to over 11 million gas meters. SoCalGas and PG&E provide service to about 5.9 million and 4.3 million customers, respectively, while SDG&E provides service to over 800,000 customers. In 2018, California gas utilities forecasted that they would deliver about 4740 million cubic feet per day (MMcfd) of gas to their customers, on average, under normal weather conditions.

The overwhelming majority of natural gas utility customers in California are residential and small commercial customers, referred to as "core" customers. Larger volume gas customers, like electric generators and industrial customers, are called "noncore" customers. Although very small in number relative to core customers, noncore customers consume about 65% of the natural gas delivered by the state's natural gas utilities, while core customers consume about 35%.

A significant amount of gas (about 19%, or 1131 MMcf, of the total forecasted California consumption in 2018) is also directly delivered to some California large volume consumers, without being transported over the regulated utility pipeline system. Those customers, referred to as "bypass" customers, take service directly from interstate pipelines or directly from California producers.

SDG&E and Southwest Gas' southern division are wholesale customers of SoCalGas, i.e. they receive deliveries of gas from SoCalGas and in turn deliver that gas to their own customers. (Southwest Gas also provides natural gas distribution service in the Lake Tahoe area.) Similarly, West Coast Gas, a small gas utility, is a wholesale customer of PG&E. Some other wholesale customers are municipalities like the cities of Palo Alto, Long Beach, and Vernon, which are not regulated by the CPUC.

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 gas utilities are Gas Transmission Northwest Pipeline, Kern River Pipeline, Transwestern Pipeline, El Paso Pipeline, Ruby Pipeline, Mojave Pipeline, and Tuscarora. 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, and authorizes rates for that service, the California Public Utilities Commission may participate in FERC regulatory proceedings to represent the interests of California natural gas consumers.

The gas transported to California gas utilities via the interstate pipelines, as well as some of the California-produced gas, is delivered into the PG&E and SoCalGas intrastate natural gas transmission pipeline systems (commonly referred to as California's "backbone" pipeline system). Natural gas on the utilities' backbone pipeline systems is then delivered to the local transmission and distribution pipeline systems, or to natural gas storage fields. Some large volume noncore customers take natural gas delivery directly off the high-pressure backbone and local transmission pipeline systems, while core customers and other noncore customers take delivery off the utilities' distribution pipeline systems. The state's natural gas utilities operate over 100,000 miles of transmission and distribution pipelines, and thousands more miles of service lines.

Bypass customers take most of their deliveries directly off the Kern/Mojave pipeline system, but they also take a significant amount of gas from California production

PG&E and SoCalGas own and operate several natural gas storage fields that are located within their service territories in northern and southern California, respectively. 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 and daily natural gas demand and allow California natural gas customers to secure natural gas supplies more efficiently. PG&E is a 25% owner of the Gill Ranch Storage field. These storage fields provide a significant amount of infrastructure capacity to help meet

California's natural gas requirements, and without these storage fields, California would need much more pipeline capacity in order to meet peak gas requirements .

Prior to the late 1980s, California regulated utilities provided virtually all natural gas services to all their customers. Since then, the Commission has gradually restructured the California gas industry in order to give customers more options while assuring regulatory protections for those customers that wish to, or are required to, continue receiving utility-provided services.

The option to purchase natural gas from independent suppliers is one of the results of this restructuring process. Although the regulated utilities procure natural gas supplies for most core customers, core customers have the option to purchase natural gas from independent natural gas marketers, called "core transport agents" (CTA). Contact information for core transport agents can be found on the utilities' web sites. Noncore customers, on the other hand, make natural gas supply arrangements directly with producers or with marketers.

Another option resulting from the restructuring process occurred in 1993, when the Commission removed the utilities' storage service responsibility for noncore customers, along with the cost of this service from noncore customers' transportation rates. The Commission also encouraged the development of independent storage fields, and in subsequent years, all the independent storage fields in California were established. Noncore customers and marketers may now take storage service from the utility or from an independent storage provider (if available), and pay for that service, or may opt to take no storage service at all. For core customers, the Commission assures that the utility has adequate storage capacity set aside to meet core requirements, and core customers pay for that service.

In a 1997 decision, the Commission adopted PG&E's "Gas Accord", which unbundled PG&E's backbone transmission costs from noncore transportation rates. This decision gave customers and marketers the opportunity to obtain pipeline capacity rights on PG&E's backbone transmission pipeline system, if desired, and pay for that service at rates authorized by the Commission. The Gas Accord also required PG&E to set aside a certain amount of backbone transmission capacity in order to deliver gas to its core customers. Subsequent Commission decisions modified and extended the initial terms of the Gas Accord. The "Gas Accord" framework is still in place today for PG&E's backbone and storage rates and services and is now simply referred to as PG&E Gas Transmission and Storage (GT&S).

In a 2006 decision, the Commission adopted a similar gas transmission framework for Southern California, called the "firm access rights" system. SoCalGas and SDG&E implemented the firm access rights (FAR) system in 2008, and it is now referred to as the backbone transmission system (BTS) framework. As under the PG&E backbone transmission system, SoCalGas backbone transmission costs are unbundled from noncore transportation rates. Noncore customers and marketers may obtain, and pay for, firm backbone transmission capacity at various receipt points on the SoCalGas system. A

certain amount of backbone transmission capacity is obtained for core customers to assure meeting their requirements.

Many if not most noncore customers now use a marketer to provide for several of the services formerly provided by the utility. That is, a noncore customer may simply arrange for a marketer to procure its supplies, and obtain any needed storage and backbone transmission capacity, in order to assure that it will receive its needed deliveries of natural gas supplies. Core customers still mainly rely on the utilities for procurement service, but they have the option to take procurement service from a CTA. Backbone transmission and storage capacity is either set aside or obtained for core customers in amounts to assure very high levels of service.

In order properly operate their natural gas transmission pipeline and storage systems, PG&E and SoCalGas must balance the amount of gas received into the pipeline system and delivered to customers or to storage fields. Some of these utilities' storage capacity is dedicated to this service, and under most circumstances, customers do not need to precisely match their deliveries with their consumption. However, when too much or too little gas is expected to be delivered into the utilities' systems, relative to the amount being consumed, the utilities require customers to more precisely match up their deliveries with their consumption. And, if customers do not meet certain delivery requirements, they could face financial penalties. The utilities do not profit from these financial penalties - the amounts are then returned to customers as a whole. If the utilities find that they are unable to deliver all the gas that is expected to be consumed, they may even call for a curtailment of some gas deliveries. These curtailments are typically required for just the largest, noncore customers. It has been many years since there has been a significant curtailment of core customers in California ." (15)

As indicated in the preceding discussions, natural gas is available from a variety of in-state and out-of-state sources and is provided throughout the state in response to market supply and demand. Complementing available natural gas resources, biogas may soon be available via existing delivery systems, thereby increasing the availability and reliability of resources in total. The CPUC 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 2019, the Department of Motor Vehicles (DMV) identified 36.4 million registered vehicles in California (16), and those vehicles consume an estimated 17.8 billion gallons of fuel each year¹. Gasoline (and other vehicle fuels) are commercially provided commodities and would be available to the Project patrons and employees via commercial outlets.

¹ Fuel consumptions estimated utilizing information from EMFAC2017.

California's on-road transportation system includes 394,383 land miles, more than 27.5 million passenger vehicles and light trucks, and almost 8.1 million medium- and heavy-duty vehicles (16). While gasoline consumption has been declining since 2008 it is still by far the dominant fuel. Petroleum comprises about 91% of all transportation energy use, excluding fuel consumed for aviation and most marine vessels (17). Nearly 17.8 billion gallons of on-highway fuel are burned each year, including 14.6 billion gallons of gasoline (including ethanol) and 3.2 billion gallons of diesel fuel (including biodiesel and renewable diesel). In 2019, Californians also used 194 million cubic feet of natural gas as a transportation fuel (18), or the equivalent of 183 billion gallons of gasoline.

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3 REGULATORY BACKGROUND

Federal and state agencies regulate energy use and consumption through various means and programs. On the federal level, the United States Department of Transportation, the United States Department of Energy, and the United States Environmental Protection Agency are three federal agencies with substantial influence over energy policies and programs. On the state level, the CPUC and the 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

3.1.1 INTERMODAL SURFACE TRANSPORTATION EFFICIENCY ACT OF 1991 (ISTEA)

The 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.

3.1.2 THE TRANSPORTATION EQUITY ACT FOR THE 21ST CENTURY (TEA-21)

The 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.

3.2 CALIFORNIA

3.2.1 INTEGRATED ENERGY POLICY REPORT (IEPR)

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

The 2019 IEPR was adopted January 31, 2020, and continues to work towards improving electricity, natural gas, and transportation fuel energy use in California. The 2019 IEPR focuses on a variety of topics such as including the environmental performance of the electricity generation system, landscape-scale planning, the response to the gas leak at the Aliso Canyon natural gas storage facility, transportation fuel supply reliability issues, updates on Southern California electricity reliability, methane leakage, climate adaptation activities for the energy sector, climate and sea level rise scenarios, and the California Energy Demand Forecast (19). The 2020 IEPR Update is currently in progress and a notice of availability for public comment was issued February 2021.

3.2.2 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 several strategies, including assistance to public agencies and fleet operators and encouragement of urban designs that reduce vehicle miles traveled (VMT) and accommodate pedestrian and bicycle access.

3.2.3 CALIFORNIA CODE TITLE 24, PART 6, ENERGY EFFICIENCY STANDARDS

California Code of Regulations (CCR) Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings, was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas (GHG) emissions. The 2019 version of Title 24 was adopted by the CEC and became effective on January 1, 2020 (20). The 2019 Title are applicable to building permit applications submitted on or after January 1, 2020. The 2019 Title 24 standards require solar PV systems for new homes, establish requirements for newly constructed healthcare facilities, encourage demand responsive technologies for residential buildings, and update indoor and outdoor lighting standards for nonresidential buildings. The CEC anticipates that single-family homes built with the 2019 standards will use approximately 7% less energy compared to the residential homes built under the 2016 standards. Additionally, after implementation of solar PV systems, homes built under the 2019 standards will about 53% less energy than homes built under the 2016 standards. Nonresidential buildings will use approximately 30% less energy due to lighting upgrades compared to the prior code (21).

3.2.4 AB 1493 PAVLEY REGULATIONS AND FUEL EFFICIENCY STANDARDS

California AB 1493, enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Under this legislation, CARB adopted regulations to reduce GHG emissions from non-commercial passenger vehicles (cars and light-duty trucks). Although aimed at reducing GHG emissions, specifically, a co-benefit

of the Pavley standards is an improvement in fuel efficiency and consequently a reduction in fuel consumption.

3.2.5 CALIFORNIA’S RENEWABLE PORTFOLIO STANDARD (RPS)

First established in 2002 under Senate Bill (SB) 1078, California’s Renewable Portfolio Standards (RPS) requires retail sellers of electric services to increase procurement from eligible renewable resources to 33% of total retail sales by 2020 (22).

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

In October 2015, the legislature approved, and the Governor signed SB 350, which reaffirms California’s commitment to reducing its GHG emissions and addressing climate change. Key provisions include an increase in the renewables portfolio standard (RPS), higher energy efficiency requirements for buildings, initial strategies towards a regional electricity grid, and improved infrastructure for electric vehicle charging stations. Specifically, SB 350 requires the following to reduce statewide GHG emissions:

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

3.3 SAN DIEGO COUNTY

The San Diego Regional Energy Office (SDREO) 2003 San Diego Regional Energy Infrastructure Study provided an integrated and comprehensive analysis of the electricity and natural gas supply and demand inventory and issues (SDREO 2003). The San Diego Regional Energy Infrastructure Study found that the San Diego region is unique compared to the rest of the state because of its proximity to Baja California, Mexico, and the close integration with respect to trade flows, movement of people, and capital. Currently, there is a growing interdependency between San Diego County and Northern Baja California in terms of both the supply and demand of energy. Electric power transfers have taken place between California and Northern Baja California, to some extent, for more than 20 years and recently, the bi-national supply and demand interdependencies have increased dramatically. Additionally, while abundant renewable resources are located within the County, the available resources are much greater when the potential of surrounding counties and Baja California are considered. The San Diego region’s economic and energy development future depends on bi-national as well as interregional cooperation and joint problem solving. The County experiences many unique challenges because of its “island-like” geographic situation, bounded by the Pacific Ocean to the west, the Laguna Mountains to the east, the Mexican border to the south and Camp Pendleton to the north. Because of this fact, there are supply issues and risks that the region is facing unless additional supply options are made available.

SANDAG’s 2014 Regional Energy Strategy (RES) identifies priority planning actions, essential to meeting the region’s energy goals in the future:

1. Support energy efficiency policies in local and regional plans, such as AB 758: CA Comprehensive Energy Efficiency Program for Existing Buildings
2. Facilitate consistent permitting practices across the region
3. Promote building energy ratings and disclosure
4. Increase local availability and awareness of finance programs
5. Support implementation of Proposition 39 and resulting energy and cost savings

The 2014 RES identified the main drivers of the strategy, including the state’s preferred loading order for meeting new energy needs and global climate change and its policy implications. The California Public Utilities Commission (CPUC) and CEC adopted a preferred loading order to meet the goals for satisfying the state’s growing demand for electricity, which would place top priority on increasing energy efficiency and demand response (i.e., temporary reduction or shift in energy use during peak hours), generating new energy from renewable and distributed generation resources, and improvements to clean fossil-fueled generation and infrastructure. Environmental changes caused by climate change are anticipated to have an increasing impact on energy production and peak demand for electricity.

The major sources of energy in the San Diego region, which encompasses the Proposed Project area, include petroleum, electricity, and natural gas. Electricity and natural gas are primarily provided to the San Diego region by SDG&E. The following discussion outlines consumption rates for these various energy sources in San Diego.

The SDREO is currently preparing an update of the REP for SANDAG. The SDREO has been asked to supplement the Regional Energy Plan Update to provide more detailed information and recommendations about energy infrastructure needs such as traditional power plants, alternative energy generating projects, and conservation elements. The SDREP will support the development of a comprehensive Regional Energy Strategy that is intended to address projected electricity and natural gas demand and needed supply for the region through 2030.

3.4 CITY OF SAN DIEGO

CITY OF SAN DIEGO GENERAL PLAN

The Conservation Element of the City of San Diego General Plan includes the following energy-related policies (City of San Diego 2008).

Policy CE-A.5: Employ sustainable or “green” building techniques for the construction and operation of buildings.

- Develop and implement sustainable building standards for new and significant remodels of residential and commercial buildings to maximize energy efficiency, and to achieve overall net

zero energy consumption by 2020 for new residential buildings and 2030 for new commercial buildings. This can be accomplished through factors including, but not limited to:

- Designing mechanical and electrical systems that achieve greater energy efficiency with currently available technology
- Minimizing energy use through innovative site design and building orientation that addresses factors such as sun-shade patterns, prevailing winds, landscape, and sun-screens
- Employing self-generation of energy using renewable technologies
- Combining energy efficient measures that have longer payback periods with measures that have shorter payback periods
- Reducing levels of non-essential lighting, heating, and cooling using energy efficient appliances and lighting. Provide technical services for “green” buildings in partnership with other agencies and organizations.

Policy CE-I.3: Pursue state and federal funding opportunities for research and development of alternative and renewable energy sources.

Policy CE-I.4: Maintain and promote water conservation and waste diversion programs to conserve energy.

Policy CE-I.5: Support the installation of photovoltaic panels, and other forms of renewable energy production.

- Seek funding to incorporate renewable energy alternatives in public buildings.
- Promote the use and installation of renewable energy alternatives in new and existing development.

Policy CE-I.7: Pursue investments in energy efficiency and direct sustained efforts towards eliminating inefficient energy use.

Policy CE-I.10: Use renewable energy sources to generate energy to the extent feasible.

Policy CE-I.12: Use small, decentralized, aesthetically designed, and appropriately sited energy efficient power generation facilities to the extent feasible.

CITY OF SAN DIEGO ENERGY STRATEGY FOR A SUSTAINABLE FUTURE

The City of San Diego Environmental Services Department has taken a leadership role to advance policies and practices that support a more sustainable future. In June 2009, the department published its Energy Strategy for a Sustainable Future, which outlines six objectives to achieve more sustainable generation and use of energy, as follows (City of San Diego 2009):

- Energy Conservation – All City employees will be aware of and implement energy conservation measures by 2010.
- Energy Efficiency – Reduce energy use 10% by 2012, using 2000 as a baseline.
- Renewable Energy – Increase megawatts of renewable energy used at City facilities to 17 by 2012, and to 25 by 2020.
- Management of SDG&E Energy Bills – Continue the use of the Electronic Data Interchange.

- Policy Development and Implementation – Guide City efforts by institutionalizing policies and programs that increase energy conservation, efficiency, and the use of renewable energy.
- Leverage Resources – Ensure that state and federal funds are leveraged to the extent possible with existing programs such as CEC loans and the California Public Utilities Commission Partnership funds.

CITY OF SAN DIEGO CLIMATE ACTION PLAN

The City of San Diego’s Climate Action Plan (CAP) and CAP Consistency Checklist (CAP Checklist) are the guiding documents that will be used to demonstrate consistency with the City’s energy goals (City of San Diego 2015 and 2017). The CAP identifies five strategies to address GHG emissions. Of these five strategies, three have direct implications to the energy demand of the proposed project: 1. Energy and Water Efficient Buildings, 2. Clean and Renewable Energy, and 3. Bicycling, Walking, Transit and Land Use. Applicable actions within each of these strategies are expected to reduce the overall energy demand of the proposed project:

Strategy 1: Energy and Water Efficient Buildings

- a) Residential Energy Conservation and Disclosure Ordinance

Strategy 2: Clean and Renewable Energy

- b) Community Choice Aggregation Program or Another Program

Strategy 3: Bicycling, Walking, Transit and Land Use

- c) Mass Transit
- d) Commuter Walking
- e) Commuter Biking
- f) Promote Effective Land Use to Reduce Vehicle Miles Travelled

These actions support the overarching goals that the City is striving to achieve. The CAP Checklist provides more targeted guidance to evaluate a project’s consistency with the applicable CAP strategies and actions. The targeted guidance that impacts energy include:

Strategy 1: Energy and Water Efficient Buildings

- a) Cool/Green Roofs

Strategy 2: Clean and Renewable Energy

- b) The CAP Checklist does not provide additional targeted guidance for this strategy.

Strategy 3: Bicycling, Walking, Transit and Land Use

- c) Electric Vehicle Charging
- d) Bicycle Parking Spaces
- e) Designated Parking Spaces
- f) Transportation Demand Management Program

4 PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES

4.1 EVALUATION CRITERIA

In compliance with Appendix G of the *State CEQA Guidelines* (23), 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* (24), states that the means of achieving the goal of energy conservation includes the following:

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

4.2 METHODOLOGY

Information from the CalEEMod Version 2016.3.2 outputs for the *Towne Centre View Air Quality Impact Analysis* (Urban Crossroads, Inc.) (AQIA) (25) was utilized in this analysis, detailing Project related construction equipment, transportation energy demands, and facility energy demands.

4.2.1 CAL EEMOD

On October 17, 2017, the SCAQMD, in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the CalEEMod Version 2016.3.2. The purpose of this model is to calculate construction-source and operational-source criteria pollutants and GHG emissions from direct and indirect sources as well as energy usage. (26). Since operational GHG emissions are based largely on the amount of energy used, the latest version of CalEEMod has been used, in part, to determine the proposed Project's anticipated transportation and facility energy demands. Output from the Project and existing uses model runs are provided in Appendixes 4.1 and 4.2, respectively.

4.2.2 EMISSION FACTORS MODEL

On August 19, 2019, the EPA approved the 2017 version of the EMISSIONS FACTOR model (EMFAC) web database for use in State Implementation Plan and transportation conformity analyses. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (27). This energy study utilizes the different fuel types for each vehicle class from the annual EMFAC2017 emission inventory in order to derive the average vehicle fuel economy which is then used to determine the estimated annual fuel consumption associated with vehicle usage during Project construction and operational activities. For purposes of

analysis, the 2021 through 2027 analysis years were utilized to determine the average vehicle fuel economy used throughout the duration of the Project.

4.3 CONSTRUCTION ENERGY DEMANDS

4.3.1 CONSTRUCTION POWER COST AND ELECTRICITY USAGE

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.

CONSTRUCTION DURATION

For purposes of analysis, construction of the Project is estimated to commence in April 2022 and last through December 2027. The construction schedule utilized in the analysis, shown in Table 4-1, represents a “worst-case” analysis scenario. Should construction occur any time after the respective dates, impacts would be reduced since emission factors for construction decrease as time passes due to emission regulations becoming more stringent². The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (1). The duration of construction activity was based on information provided by the Project Applicant and the 2028 opening year.

Based on the *2017 National Construction Estimator*, Richard Pray (2017) (28), the typical power cost per 1,000 sf of construction per month is estimated to be \$2.32. The proposed Project includes the development of 99,386 sf of commercial office use and associated parking, landscape area, and paved areas. Based on information provided in the AQIA, construction activities are anticipated to occur over the course of 68 months (25). Based on Table 4-2, the total power cost of the on-site electricity usage during the construction of the Project is estimated to be approximately \$192,360.76.

The SDG&E’s general service rate schedule were used to determine the Project’s electrical usage. As of June 1, 2020, SDG&E’s general service rate is \$0.16 per kilowatt hours (kWh) of electricity for general services (29). As shown on Table 4-3, the total electricity usage from on-site Project construction related activities is estimated to be approximately 1,190,646 kWh.

² As shown in the CalEEMod User’s Guide Version 2016.3.2, Section 4.3 “OFFROAD Equipment” as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

TABLE 4-1: CONSTRUCTION DURATION

Construction Phase Name	Start Date	End Date	Days
Phase 1 Utilities	4/4/2022	12/19/2022	181
Phase 1 Grading	5/14/2022	10/5/2022	100
Phase 1 Building Construction	10/6/2022	12/5/2024	550
Phase 1 Paving	4/28/2023	1/16/2024	181
Demo Existing	8/31/2023	12/19/2023	76
Phase 1 Site Preparation	12/18/2023	11/4/2024	226
Phase 1 Architectural Coating	5/15/2024	11/4/2024	121
Phase 2 Grading	7/8/2024	8/16/2024	30
Phase 2 Building Construction	8/17/2024	1/12/2026	354
Phase 3 Grading	2/11/2025	5/6/2025	61
Phase 3 Building Construction	5/7/2025	7/2/2027	548
Phase 2 Architectural Coating	10/24/2025	1/12/2026	53
Phase 3 Paving	2/23/2026	12/14/2026	212
Phase 4 Grading	4/9/2026	4/22/2026	10
Phase 4 Building Construction	4/23/2026	12/30/2027	428
Phase 3 Site Preparation	9/17/2026	7/2/2027	202
Phase 4 Demo	2/16/2027	3/22/2027	25
Building E Grading	2/16/2027	3/22/2027	25
Phase 3 Architectural Coating	3/15/2027	7/2/2027	79
Phase 4 Architectural Coating	6/26/2027	12/30/2027	129

Source: CalEEMod 2016, Appendix 4.1.

TABLE 4-2: CONSTRUCTION POWER COST

Land Use	Power Cost (per 1,000 SF of building per month of construction)	Total Building Size (1,000 SF)	Construction Duration (months)	Total Project Construction Power Cost
Research and Development	\$2.38	999.386	68	\$161,740.63
Parking	\$2.38	865.378	68	\$140,052.78
TOTAL PROJECT CONSTRUCTION COST				\$301,793.41

TABLE 4-3: CONSTRUCTION ELECTRICITY USAGE

Land Use	Cost per kWh	Total Project Construction Electricity Usage (kWh)
Research and Development	\$0.16	1,001,118
Parking	\$0.16	866,878
TOTAL PROJECT CONSTRUCTION ELECTRICITY USAGE (kWh)		1,867,996

4.3.2 CONSTRUCTION EQUIPMENT FUEL ESTIMATES

Fuel consumed by construction equipment would be the primary energy resource expended over the course of Project construction.

CONSTRUCTION EQUIPMENT

Consistent with industry standards and typical construction practices, each piece of equipment listed in Table 4-4 will operate up to a total of eight (8) hours per day, or more than two-thirds of the period during which construction activities are allowed pursuant to the code. It should be noted that most pieces of equipment would likely operate for fewer hours per day. A summary of construction equipment assumptions by phase is provided at Table 4-4.

TABLE 4-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS

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

TABLE 4-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS

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

TABLE 4-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS

Phase Name	Equipment	Amount	Hours Per Day
	Rubber Tired Dozers	1	8
	Scrapers	2	8
	Tractors/Loaders/Backhoes	2	8
Phase 3 Architectural Coating	Air Compressors	1	8
Phase 4 Architectural Coating	Air Compressors	1	8

Source: CalEEMod 2016, Appendix 4.1

Project construction activity timeline estimates, construction equipment schedules, equipment power ratings, load factors, and associated fuel consumption estimates are presented in Table 4-5. Eight-hour daily use of all equipment is assumed. The aggregate fuel consumption rate for all equipment is estimated at 18.5 horsepower hour per gallon (hp-hr-gal.), obtained from CARB 2018 Emissions Factors Tables and cited fuel consumption rate factors presented in Table D-24 of the Moyer guidelines (30). For the purposes of this analysis, the calculations are based on all construction equipment being diesel-powered which is 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, Project construction activities would consume an estimated 501,633 gallons of diesel fuel. Project construction would represent a “single-event” diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES

Activity/Duration	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption (gal. diesel fuel)
Phase 1 Utilities	181	Aerial Lifts	63	2	8	0.31	312	3,057
		Excavators	158	1	8	0.38	480	4,699
		Generator Sets	84	1	8	0.74	497	4,865
Phase 1 Grading	100	Crawler Tractors	212	2	8	0.43	1,459	7,884
		Excavators	158	2	8	0.38	961	5,193
		Graders	187	1	8	0.41	613	3,315
		Rubber Tired Dozers	247	1	8	0.40	790	4,272
		Scrapers	367	2	8	0.48	2,819	15,235
Phase 1 Building Construction	550	Cranes	231	1	8	0.29	536	15,933
		Forklifts	89	3	8	0.20	427	12,701
		Generator Sets	84	1	8	0.74	497	14,784
		Tractors/Loaders/Backhoes	97	3	8	0.37	861	25,608
		Welders	46	1	8	0.45	166	4,923
Phase 1 Paving	181	Pavers	130	2	8	0.42	874	8,547
		Paving Equipment	132	2	8	0.36	760	7,439
		Rollers	80	2	8	0.38	486	4,759
Demo Existing	76	Concrete/Industrial Saws	81	1	8	0.73	473	1,943
		Excavators	158	3	8	0.38	1,441	5,920
		Rubber Tired Dozers	247	3	8	0.40	2,371	9,741
Phase 1 Site Preparation	226	Rubber Tired Dozers	247	4	8	0.40	3,162	38,623
		Tractors/Loaders/Backhoes	97	3	8	0.37	861	10,523
Phase 1 Architectural Coating	121	Air Compressors	78	1	8	0.48	300	1,959
Phase 2 Grading	30	Excavators	158	2	8	0.38	961	1,558

TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES

Activity/Duration	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption (gal. diesel fuel)
		Graders	187	1	8	0.41	613	995
		Rubber Tired Dozers	247	1	8	0.40	790	1,282
		Scrapers	367	2	8	0.48	2,819	4,571
		Tractors/Loaders/Backhoes	97	2	8	0.37	574	931
Phase 2 Building Construction	354	Cranes	231	1	8	0.29	536	10,255
		Forklifts	89	3	8	0.20	427	8,175
		Generator Sets	84	1	8	0.74	497	9,516
		Tractors/Loaders/Backhoes	97	3	8	0.37	861	16,482
		Welders	46	1	8	0.45	166	3,169
Phase 3 Grading	61	Excavators	158	2	8	0.38	961	3,168
		Graders	187	1	8	0.41	613	2,022
		Rubber Tired Dozers	247	1	8	0.40	790	2,606
		Scrapers	367	2	8	0.48	2,819	9,294
		Tractors/Loaders/Backhoes	97	2	8	0.37	574	1,893
Phase 3 Building Construction	548	Cranes	231	1	8	0.29	536	15,875
		Forklifts	89	3	8	0.20	427	12,654
		Generator Sets	84	1	8	0.74	497	14,730
		Tractors/Loaders/Backhoes	97	3	8	0.37	861	25,515
		Welders	46	1	8	0.45	166	4,905
Phase 2 Architectural Coating	53	Air Compressors	78	1	8	0.48	300	858
Phase 3 Paving	212	Pavers	130	2	8	0.42	874	10,011
		Paving Equipment	132	2	8	0.36	760	8,713
		Rollers	80	2	8	0.38	486	5,574

TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES

Activity/Duration	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption (gal. diesel fuel)
Phase 4 Grading	10	Excavators	158	2	8	0.38	961	519
		Graders	187	1	8	0.41	613	332
		Rubber Tired Dozers	247	1	8	0.40	790	427
		Scrapers	367	2	8	0.48	2,819	1,524
		Tractors/Loaders/Backhoes	97	2	8	0.37	574	310
Phase 4 Building Construction	428	Cranes	231	1	8	0.29	536	12,399
		Forklifts	89	3	8	0.20	427	9,883
		Generator Sets	84	1	8	0.74	497	11,505
		Tractors/Loaders/Backhoes	97	3	8	0.37	861	19,928
		Welders	46	1	8	0.45	166	3,831
Phase 3 Site Preparation	202	Rubber Tired Dozers	247	3	8	0.40	2,371	25,891
		Tractors/Loaders/Backhoes	97	4	8	0.37	1,148	12,540
Phase 4 Demo	25	Concrete/Industrial Saws	81	1	8	0.73	473	639
		Excavators	158	3	8	0.38	1,441	1,947
		Rubber Tired Dozers	247	2	8	0.40	1,581	2,136
Building E Grading	25	Excavators	158	2	8	0.38	961	1,298
		Graders	187	1	8	0.41	613	829
		Rubber Tired Dozers	247	1	8	0.40	790	1,068
		Scrapers	367	2	8	0.48	2,819	3,809
		Tractors/Loaders/Backhoes	97	2	8	0.37	574	776
Phase 3 Architectural Coating	79	Air Compressors	78	1	8	0.48	300	1,279
Phase 4 Architectural Coating	129	Air Compressors	78	1	8	0.48	300	2,089
CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)								501,633

4.3.3 CONSTRUCTION TRIPS AND VMT

Based on the CalEEMod, the Trip and VMT are the number and length (in terms VMT) of on-road vehicle trips for workers, vendors, and hauling for each construction phase. The trips identified in Table 4-6 are based on the CalEEMod default parameters, with the exception of trips during demolition which have been adjusted based on information provided by the Project Applicant.

TABLE 4-6: CONSTRUCTION TRIPS AND VMT

Phase Name	Worker Trips / Day	Vendor Trips / Day	Hauling Trips / Day	Worker Trip Length	Vendor Trip Length	Hauling Trip Length
Phase 1 Utilities	10	0	0	10.8	7.3	20
Phase 1 Grading	20	0	185	10.8	7.3	20
Phase 1 Building Construction	107	42	0	10.8	7.3	20
Phase 1 Paving	15	0	0	10.8	7.3	20
Phase 1 Demo	15	0	17	10.8	7.3	20
Phase 1 Site Preparation	18	0	0	10.8	7.3	20
Phase 1 Architectural Coating	21	0	0	10.8	7.3	20
Phase 2 Grading	20	0	90	10.8	7.3	20
Phase 2 Building Construction	118	46	0	10.8	7.3	20
Phase 3 Grading	20	0	244	10.8	7.3	20
Phase 3 Building Construction	114	44	0	10.8	7.3	20
Phase 2 Architectural Coating	24	0	0	10.8	7.3	20
Phase 3 Paving	15	0	0	10.8	7.3	20
Phase 4 Grading	20	0	202	10.8	7.3	20
Phase 4 Building Construction	79	31	0	10.8	7.3	20
Phase 3 Site Preparation	18	0	0	10.8	7.3	20
Phase 4 Demo	15	0	13	10.8	7.3	20
Building E Grading	20	0	0	10.8	7.3	20
Phase 3 Architectural Coating	23	0	0	10.8	7.3	20
Phase 4 Architectural Coating	16	0	0	10.8	7.3	20

Source: CalEEMod 2016, Appendix 4.1.

4.3.4 CONSTRUCTION WORKER FUEL ESTIMATES

Vehicle fuel efficiencies for worker vehicles (Light-Duty Automobile [LDA], Light-Duty Truck [LDT] 1, and LDT2) were estimated using information generated within the 2017 version of the EMFAC (EMFAC2017) developed by CARB. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, and VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (27). EMFAC2017 was run for the LDA, LDT1, and LDT2 vehicle class within the California sub-area for the 2022 calendar year. This is

considered a conservative estimate as the methodology does not account for increasing fuel efficiencies that would continue to increase after 2022. Data from EMFAC2017 is shown in Appendix 4.3.

The construction worker trips are estimated to generate 2,509,682 VMT during the 68 months of construction (31). Based on the EMFAC2017 emission inventory for the County of San Diego, 69% of all worker trips are from LDA vehicles, 8% are from LDT1, and 23% are from LDT2. Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs. and LDT2 are vehicles that have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

An aggregated fuel economy for vehicles in year 2022 are estimated based on EMFAC2017. LDA are calculated to have fuel efficiencies of 32.12 miles per gallon (mpg). Table 4-7 provides an estimated annual fuel consumption resulting from LDAs related to the Project construction worker trips. Based on Table 4-7, it is estimated that 52,960 gallons of fuel will be consumed related to construction worker trips during full construction of the Project.

TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDA)

Construction Activity	Duration (Days)	Worker LDA Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Phase 1 Utilities	181	7	10.8	13,684	32.12	426
Phase 1 Grading	100	14	10.8	15,120	32.12	471
Phase 1 Building Construction	550	74	10.8	439,560	32.12	13,684
Phase 1 Paving	181	11	10.8	21,503	32.12	669
Phase 1 Demo	76	11	10.8	9,029	32.12	281
Phase 1 Site Preparation	226	13	10.8	31,730	32.12	988
Phase 1 Architectural Coating	121	15	10.8	19,602	32.12	610
Phase 2 Grading	30	14	10.8	4,536	32.12	141
Phase 2 Building Construction	354	82	10.8	313,502	32.12	9,760
Phase 3 Grading	61	14	10.8	9,223	32.12	287
Phase 3 Building Construction	548	79	10.8	467,554	32.12	14,556
Phase 2 Architectural Coating	53	17	10.8	9,731	32.12	303
Phase 3 Paving	212	11	10.8	25,186	32.12	784
Phase 4 Grading	10	14	10.8	1,512	32.12	47
Phase 4 Building Construction	428	55	10.8	254,232	32.12	7,915
Phase 3 Site Preparation	202	13	10.8	28,361	32.12	883
Phase 4 Demo	25	11	10.8	2,970	32.12	92
Building E Grading	25	14	10.8	3,780	32.12	118
Phase 3 Architectural Coating	79	16	10.8	13,651	32.12	425
Phase 4 Architectural Coating	129	12	10.8	16,718	32.12	520
TOTAL CONSTRUCTION WORKER (LDA) FUEL CONSUMPTION						52,960

Source: CalEEMod 2016, Appendix 4.1.

LDT1 are estimated to have a fuel efficiency of 26.41 mpg in 2022. Table 4-8 provides an estimated annual fuel consumption resulting from LDT1s related to the Project construction worker trips. Based on Table 4-8, it is estimated that 8,412 gallons of fuel will be consumed related to construction worker trips during full construction of the Project.

TABLE 4-8: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDT1)

Construction Activity	Duration (Days)	Worker LDT1 Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Phase 1 Utilities	181	1	10.8	5,864	26.41	222
Phase 1 Grading	100	2	10.8	2,160	26.41	82
Phase 1 Building Construction	550	9	10.8	53,460	26.41	2,024
Phase 1 Paving	181	2	10.8	3,910	26.41	148
Phase 1 Demo	76	2	10.8	1,642	26.41	62
Phase 1 Site Preparation	226	2	10.8	4,882	26.41	185
Phase 1 Architectural Coating	121	2	10.8	2,614	26.41	99
Phase 2 Grading	30	2	10.8	648	26.41	25
Phase 2 Building Construction	354	10	10.8	38,232	26.41	1,448
Phase 3 Grading	61	2	10.8	1,318	26.41	50
Phase 3 Building Construction	548	10	10.8	59,184	26.41	2,241
Phase 2 Architectural Coating	53	2	10.8	1,145	26.41	43
Phase 3 Paving	212	2	10.8	4,579	26.41	173
Phase 4 Grading	10	2	10.8	216	26.41	8
Phase 4 Building Construction	428	7	10.8	32,357	26.41	1,225
Phase 3 Site Preparation	202	2	10.8	4,363	26.41	165
Phase 4 Demo	25	2	10.8	540	26.41	20
Building E Grading	25	2	10.8	540	26.41	20
Phase 3 Architectural Coating	79	2	10.8	1,706	26.41	65
Phase 4 Architectural Coating	129	2	10.8	2,786	26.41	106
TOTAL CONSTRUCTION WORKER (LDT2) FUEL CONSUMPTION						8,412

Source: CalEEMod 2016, Appendix 4.1, EMFAC 2017, Appendix 4.3

LDT2 are estimated to have a fuel efficiency of 24.62 mpg in 2022. Table 4-9 provides an estimated annual fuel consumption resulting from LDT2s related to the Project construction worker trips. Based on Table 4-9, it is estimated that 23,812 gallons of fuel will be consumed related to construction worker trips during full construction of the Project.

As with other construction fuel consumption, 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 4-9: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDT2)

Construction Activity	Duration (Days)	Worker LDT2 Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Phase 1 Utilities	181	3	10.8	5,864	24.62	238
Phase 1 Grading	100	5	10.8	5,400	24.62	219
Phase 1 Building Construction	550	25	10.8	148,500	24.62	6,031
Phase 1 Paving	181	4	10.8	7,819	24.62	318
Phase 1 Demo	76	4	10.8	3,283	24.62	133
Phase 1 Site Preparation	226	5	10.8	12,204	24.62	496
Phase 1 Architectural Coating	121	5	10.8	6,534	24.62	265
Phase 2 Grading	30	5	10.8	1,620	24.62	66
Phase 2 Building Construction	354	28	10.8	107,050	24.62	4,347
Phase 3 Grading	61	5	10.8	3,294	24.62	134
Phase 3 Building Construction	548	27	10.8	159,797	24.62	6,489
Phase 2 Architectural Coating	53	6	10.8	3,434	24.62	139
Phase 3 Paving	212	4	10.8	9,158	24.62	372
Phase 4 Grading	10	5	10.8	540	24.62	22
Phase 4 Building Construction	428	19	10.8	87,826	24.62	3,567
Phase 3 Site Preparation	202	5	10.8	10,908	24.62	443
Phase 4 Demo	25	4	10.8	1,080	24.62	44
Building E Grading	25	5	10.8	1,350	24.62	55
Phase 3 Architectural Coating	79	6	10.8	5,119	24.62	208
Phase 4 Architectural Coating	129	4	10.8	5,573	24.62	226
TOTAL CONSTRUCTION WORKER (LDT1) FUEL CONSUMPTION						23,812

Source: CalEEMod 2016, Appendix 4.1.; EMFAC 2017, Appendix 4.3

4.3.5 CONSTRUCTION VENDOR AND HAULING FUEL ESTIMATES

Construction vendor trips (vehicles that deliver materials to the site during construction) are estimated to generate 574,101 VMT and hauling is anticipated to generate in 794,420 VMT along area roadways for the Project over the duration of construction activity (32). Based on CalEEMod standard inputs, vehicles associated with vendor trips are limited to medium-heavy duty trucks (MHDT) and heavy-heavy duty trucks (HHDT) (32). Similar to LDA, LDT1, and LDT fuel estimates, vehicle fuel efficiencies for MHDTs and HHDTs for vending trips were estimated using information generated within EMFAC2017. For debris and soil hauling all trucks were assumed to be HHDT constituent with CalEEMod standard settings. EMFAC2017 was run for the MHDT and HHDT vehicle classes within the California sub-area for the 2021 and 2022 calendar years. Data from EMFAC2017 is shown in Appendix 4.3.

As generated by EMFAC2017, MHDTs are estimated to have a fuel efficiency of 8.39 mpg in 2022. Based on Table 4-10, it is estimated that 39,745 gallons of fuel will be consumed related to construction vendor trips (MHDTs) during full construction of the Project.

TABLE 4-10: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (MHDT)

Construction Activity	Duration (Days)	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Phase 1 Building Construction	550	25	7.3	100,375	8.39	11,962
Phase 2 Building Construction	354	27	7.3	69,773	8.39	8,315
Phase 3 Building Construction	548	26	7.3	104,010	8.39	12,395
Phase 4 Building Construction	428	19	7.3	59,364	8.39	7,074
TOTAL CONSTRUCTION VENDOR (MHDT) FUEL CONSUMPTION						39,745

Source: CalEEMod 2016, Appendix 4.1. ; EMFAC 2017, Appendix 4.3

As generated by EMFAC2017, MHMDTs are estimated to have a fuel efficiency of 6.28 mpg in 2022. Based on Table 4-11, it is estimated that 38,300 gallons of fuel will be consumed related to construction vendor trips (HHDTs) during full construction of the Project.

It should be noted that 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 4-11: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (HHDT)

Construction Activity	Duration (Days)	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Phase 1 Building Construction	550	18	7.3	72,270	6.28	11,505
Phase 2 Building Construction	354	20	7.3	51,684	6.28	8,228
Phase 3 Building Construction	548	19	7.3	76,008	6.28	12,100
Phase 4 Building Construction	428	13	7.3	40,617	6.28	6,466
TOTAL CONSTRUCTION VENDOR (HHDT) FUEL CONSUMPTION						38,300

Source: CalEEMod 2016, Appendix 4.1. ; EMFAC 2017, Appendix 4.3

As generated by EMFAC2017, HHDTs are estimated to have a fuel efficiency of 6.28 mpg in 2022. Based on Table 4-12, it is estimated that 126,470 gallons of fuel will be consumed related to construction vendor trips (MHDTs) during full construction of the Project.

It should be noted that 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 4-12: CONSTRUCTION HAULING FUEL CONSUMPTION ESTIMATES (HHDT)

Construction Activity	Duration (Days)	Hauling Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Phase 1 Grading	100	185	20	370,000	6.28	58,903
Phase 1 Demo	76	17	20	25,840	6.28	4,114
Phase 2 Grading	30	90	20	54,000	6.28	8,597
Phase 3 Grading	61	244	20	297,680	6.28	47,390
Phase 4 Grading	10	202	20	40,400	6.28	6,432
Phase 4 Demo	25	13	20	6,500	6.28	1,035
TOTAL CONSTRUCTION HAULING (HHDT) FUEL CONSUMPTION						126,470

Source: CalEEMod 2016, Appendix 4.1. ; EMFAC 2017, Appendix 4.3

4.3.6 CONSTRUCTION ENERGY EFFICIENCY/CONSERVATION MEASURES

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

The Project would utilize construction contractors which practice compliance with applicable CARB regulation regarding 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 (TAC). Compliance with anti-idling and emissions regulations would result in a more efficient use of construction-related energy and the minimization or elimination of wasteful or unnecessary consumption of energy. Idling restrictions and the use of newer engines and equipment would result in less fuel combustion and energy consumption.

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

4.4 OPERATIONAL ENERGY DEMANDS

Energy consumption in support of or related to 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). To evaluate the increased demand from the Project, the energy demand of the existing use has been modeled using CalEEMod, using historical energy efficiencies. The modeled existing uses include 192,365 sf of research and development and a 420-space parking structure. Parking is estimated based on the required number of spaces at 2.1 per 1,000 sf. The parking is included to account for energy consumption associated with lighting for parking lots.

4.4.1 TRANSPORTATION ENERGY DEMANDS

Energy that would be consumed by Project-generated traffic is a function of total VMT and estimated vehicle fuel economies of vehicles accessing the Project site. As shown in Table 4-13, the Project will result in 12,319,637 annual VMT and an estimated annual fuel consumption of 428,834 gallons of fuel. These calculations are conservative as they do not include any TDM measure that will be required by the CAP Checklist, which are designed to reduce VMT from vehicles.

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

Vehicle Type	Annual Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
LDA	7,545,901	38	200,386
LDT1	481,796	30	15,847
LDT2	2,212,385	30	74,961
MDV	1,254,940	24	51,254
LHD1	171,231	13	13,610
LHD2	66,341	13	5,114
MHD	210,037	9	22,622
HHD	305,071	7	43,065
MCY	71,934	36	1,976
Total (All Vehicles)	12,319,637	--	428,834

Source: CalEEMod 2016, Appendix 4.1; EMFAC 2017, Appendix 4.3

As shown in Table 4-14, the existing use is estimated to generate 2,948,473 annual VMT with an estimated annual fuel consumption of 102,633 gallons of fuel.

TABLE 4-14: EXISTING VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION

Vehicle Type	Annual Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
LDA	1,805,969	38	47,959
LDT1	115,309	30	3,793
LDT2	529,493	30	17,940
MDV	300,346	24	12,267
LHD1	40,981	13	3,257
LHD2	15,878	13	1,224
MHD	50,269	9	5,414
HHD	73,013	7	10,307
MCY	17,216	36	473
Total (All Vehicles)	2,948,473	--	102,633

Source: CalEEMod 2016, Appendix 4.2; EMFAC 2017, Appendix 4.3

4.4.2 FACILITY ENERGY DEMANDS

Natural gas and electricity would be supplied to the Project by SDG&E. As previously stated, the analysis herein assumes compliance with the 2019 Title 24 Standards for the Project. As such, the CalEEMod defaults for Title 24 – Electricity and Lighting Energy were reduced by 30% in order to reflect consistency with the 2019 Title 24 standard. Annual natural gas and electricity demands of the Project are summarized in Table 4-15. For the existing land uses, modeling assumed

historical energy efficiencies for the built environment. The result of the modeling for existing are provided in Table 4-16.

TABLE 4-15: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY

Natural Gas Demand	kBTU/year
Enclosed Parking with Elevator	0
Surface Parking Lots	0
Research & Development	27,862,900
TOTAL PROJECT NATURAL GAS DEMAND	27,862,900
Electricity Demand	kWh/year
Enclosed Parking with Elevator	4,344,700
Surface Parking Lots	11,200
Research & Development	8,604,710
TOTAL PROJECT ELECTRICITY DEMAND	12,960,610

kBTU – kilo-British Thermal Units; kWh – kilo-Watt-hours
Source: CalEEMod 2016, Appendix 4.1.

TABLE 4-16: EXISTING ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY

Natural Gas Demand	kBTU/year
Enclosed Parking with Elevator	0
Research & Development	6,519,500
TOTAL PROJECT NATURAL GAS DEMAND	6,519,500
Electricity Demand	kWh/year
Enclosed Parking with Elevator	1,132,320
Research & Development	2,217,970
TOTAL PROJECT ELECTRICITY DEMAND	3,350,290

kBTU – kilo-British Thermal Units
Source: CalEEMod 2016, Appendix 4.2

4.4.3 OPERATIONAL ENERGY EFFICIENCY/CONSERVATION MEASURES

Energy efficient/energy conserving design features and operational programs that would be implemented under the Project are summarized below. Also noted in the following discussions, energy efficiency/energy conservation attributes of the Project would be complemented by increasingly stringent state and federal regulatory actions addressing vehicle fuel economies and vehicle emissions standards; and enhanced building/utilities energy efficiencies mandated under California building codes (e.g., Title24, California Green Building Standards Code).

The Project incorporates a series of measures that generally reduce energy demand associated with the Project. As previously stated, the Project will comply with the 2019 Title 24 Standards and the City Climate Action Plan Check List, which requires incorporating contemporary design features such as cool roofs and increased water efficiencies. To be conservative these measures are not incorporated in the energy analysis of facility energy demand.

The Project would also not result in a substantial increase in demand for transmission service, resulting in the need for new or expanded sources of energy supply or new or expanded energy delivery systems or infrastructure (other than site-adjacent and on-site connects to local utilities).

ENHANCED VEHICLE FUEL EFFICIENCIES

Project annual fuel consumption estimates presented previously in Tables 4-19 and represent likely potential maximums that would occur for the Project. Under subsequent future conditions, average fuel economies of vehicles accessing the Project site can be expected to improve as older, less fuel-efficient vehicles are removed from circulation, and in response to fuel economy and emissions standards imposed on newer vehicles entering the circulation system. Furthermore, the Project will comply with the City Climate Action Plan Check List, which requires incorporating design features such dedicated carpool and clean air parking, EV charging stations, bicycle facilities. As well as showers and lockers for employees who use alternative modes of transportation. To be conservative these measures are not incorporated in the energy analysis of transportation fuel consumption.

The amount of fuel consumed by the Project site can be expected to decrease as older, less fuel-efficient vehicles are removed from circulation, and in response to fuel economy and emissions standards imposed on newer vehicles entering the circulation system.

4.5 SUMMARY

4.5.1 CONSTRUCTION ENERGY DEMANDS

The estimated power cost of on-site electricity usage during the construction of the Project is assumed to be approximately \$301,793.41. Additionally, based on the assumed power cost, it is estimated that the total electricity usage during construction, after full Project build-out, is calculated to be approximately 1,867,996 kWh.

Construction equipment used by the Project would result in single event consumption of approximately 501,633 gallons of diesel fuel. Construction equipment use of fuel would not be atypical for the type of construction proposed because there are no aspects of the Project's proposed construction process that are unusual or energy-intensive, and Project construction equipment would conform to the applicable CARB emissions standards, acting to promote equipment fuel efficiencies.

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

Construction worker trips for full construction of the Project would result in the estimated fuel consumption of 85,184 gallons of fuel. Additionally, fuel consumption from construction vendor trips (MHDTs and HHDTs) and hauling trips (HHDTs) will total approximately 204,515 gallons. Diesel fuel would be supplied by City and regional commercial vendors. Indirectly, construction

energy efficiencies and energy conservation would be achieved using bulk purchases, transport and use of construction materials. The 2019 IEPR released by the CEC has shown that fuel efficiencies are getting better within on and off-road vehicle engines due to more stringent government requirements (19). As supported by the preceding discussions, Project construction energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

4.5.2 OPERATIONAL ENERGY DEMANDS

TRANSPORTATION ENERGY DEMANDS

Annual vehicular trips and related VMT generated by the operation of the Project would result in a fuel demand of 428,834 gallons of fuel. The existing uses currently consume 102,633 gallons of fuel. After accounting for the fuel use associated with the existing land uses, the Project would result in a net increase demand for 326,201 gallons of fuel.

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

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

FACILITY ENERGY DEMANDS

Project facility operational energy demands are estimated at: 27,862,900 kBTU/year of natural gas; and 12,960,610 kWh/year of electricity. The existing uses currently consume 6,519,500 kBTU/year of natural gas; and 3,350,290 kWh/year of electricity. After accounting for the energy use associated with the existing land uses the Project would result in a net increase demand for 21,343,400 kBTU/year of natural gas; and 9,610,320 kWh/year of electricity. Natural gas and electricity would be supplied to the Project by SDG&E. The Project proposes conventional research and development land uses reflecting contemporary energy efficient/energy conserving designs and operational programs. The Project does not propose uses that are inherently energy intensive and the energy demands in total would be comparable to other industrial land use projects of similar scale and configuration.

Lastly, the Project will comply with the applicable Title 24 standards. Compliance itself with applicable Title 24 standards will ensure that the Project energy demands would not be inefficient, wasteful, or otherwise unnecessary.

4.6 ENERGY FINDINGS AND RECOMMENDATIONS

4.6.1 ENERGY IMPACT 1

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

As supported by the preceding analyses, Project construction and operations would not result in the inefficient, wasteful, or unnecessary consumption of energy. The Project would therefore not cause or result in the need for additional energy producing or transmission facilities. The Project would not engage in wasteful or inefficient uses of energy and aims to achieve energy conservation goals within the State of California.

4.6.2 ENERGY IMPACT 2

Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

The Project's consistency with the applicable state and local plans is discussed below.

CONSISTENCY WITH ISTE A

Transportation and access to the Project site is provided 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 ISTE A because San Diego Association of Governments (SANDAG) is not planning for intermodal facilities on or through the Project site.

CONSISTENCY WITH TEA-21

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.

CONSISTENCY WITH IEPR

Electricity may be provided to the Project by SDG&E. SDG&E'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 2019 IEPR.

CONSISTENCY WITH STATE OF CALIFORNIA ENERGY PLAN

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 and takes advantage

of existing infrastructure systems. The Project therefore supports urban design and planning processes identified under the State of California Energy Plan, is consistent with, and would not otherwise interfere with, nor obstruct implementation of the State of California Energy Plan.

CONSISTENCY WITH CALIFORNIA CODE TITLE 24, PART 6, ENERGY EFFICIENCY STANDARDS

The 2019 version of Title 24 was adopted by the California Energy Commission (CEC) and became effective on January 1, 2020. It should be noted that the analysis herein assumes compliance with the 2019 Title 24 Standards. It should be noted that the CEC anticipates that nonresidential buildings will use approximately 30% less energy compared to the prior code (21). As such, the CalEEMod defaults for Title 24 – Electricity and Lighting Energy were reduced by 30% in order to reflect consistency with the 2019 Title 24 standard.

CONSISTENCY WITH AB 1493

AB 1493 is not applicable to the Project as it is a statewide measure establishing vehicle emissions standards. No feature of the Project would interfere with implementation of the requirements under AB 1493.

CONSISTENCY WITH RPS

California's Renewable Portfolio Standard is not applicable to the Project as it is a statewide measure that establishes a renewable energy mix. No feature of the Project would interfere with implementation of the requirements under RPS.

CONSISTENCY WITH SB 350

The proposed Project would use energy from SDG&E, which has committed to diversify their portfolio of energy sources by increasing energy from wind and solar sources. No feature of the Project would interfere with implementation of SB 350. Additionally, the Project would be designed and constructed to implement the energy efficiency measures for new industrial developments and would include several measures designed to reduce energy consumption.

CONSISTENCY WITH SAN DIEGO GENERAL PLAN

The City of San Diego General Plan include several energy efficiency policies. However, many of these policies are not applicable to a single development and are intended to focus City efforts in reducing energy consumption in the community. Table 4-17 provides a summary of the projects consistency with the General Plan policies identified in Section 3.4.

TABLE 4-17: CITY GENERAL PLAN CONSISTENCY EVALUATION

General Plan Policy	Project Consistency
Policy CE-A.5: Employ sustainable or “green” building techniques for the construction and operation of buildings.	The Project will include a high-performance building envelope including cool roofs.
Policy CE-I.3: Pursue state and federal funding opportunities for research and development of alternative and renewable energy sources.	Not applicable to the Project
Policy CE-I.4: Maintain and promote water conservation and waste diversion programs to conserve energy.	The Project will include high efficiency water fixtures in accordance with CAP Checklist requirements.
Policy CE-I.5: Support the installation of photovoltaic panels, and other forms of renewable energy production.	The Project will include the installation of rooftop solar PV panels.
Policy CE-I.7: Pursue investments in energy efficiency and direct sustained efforts towards eliminating inefficient energy use.	Not applicable to the Project
Policy CE-I.10: Use renewable energy sources to generate energy to the extent feasible.	The proposed Project would use energy from SDG&E, which has committed to diversify their portfolio of energy sources by increasing energy from wind and solar sources.
Policy CE-I.12: Use small, decentralized, aesthetically designed, and appropriately sited energy efficient power generation facilities to the extent feasible.	Not applicable to the Project

CONSISTENCY WITH SAN DIEGO ENERGY STRATEGY FOR A SUSTAINABLE FUTURE

San Diego Energy Strategy for a Sustainable Future is not applicable to the Project as it is a countywide program that establishes a renewable energy plan. No feature of the Project would interfere with implementation of the requirements under San Diego Energy Strategy for a Sustainable Future.

CONSISTENCY WITH SAN DIEGO CLIMATE ACTION PLAN

The City of San Diego CAP Checklist is intended to streamline the review of Projects under CEQA by developing a set of requirements that would ensure projects reduce GHG emission through energy efficiency and VMT reduction consistent with the development identified in the General Plan. The Project will comply with all CAP Checklist requirements for energy efficiency and will implement several Transportation Demand measures intended to reduce VMT associated with

fossil fuel vehicles. Table 4-16 provides a summary of the Project’s compliance with the applicable requirements of the CAP Checklist.

TABLE 4-16: CITY CAP CONSISTENCY EVALUATION

CAP Checklist Strategy	Project Consistency
Strategy 1: Energy and Water Efficient Buildings	The Project will have a high-performance building envelope including cool roofs.
Strategy 2: Clean and Renewable Energy	The Project is providing exterior solar shades with access to daylight to reduce lighting energy consumption.
Strategy 3: Bicycling, Walking, Transit and Land Use	The Project will provide EV charging stations as required by the CAP Checklist requirements.
	The Project will provide bicycle parking spaces, lockers, and showers in excess of the CAP Checklist requirements.
	The Project will provide designated parking clean air and carpool spaces as required by the CAP Checklist requirements.
	The Project will implement TDM measures including unbundled parking, a commitment to maintaining an employer network in the SANDAG iCommute program; provision of subsidies for transit passes; and the Project provides access to services that reduce the need to drive, such as cafes, commercial stores, banks, post offices, restaurants, gyms, or childcare, either onsite or within 1/4 mile of the Project site.

As shown above, the Project would not conflict with any of the state or local plans. As such, a less than significant impact is expected.

4.6.3 ENERGY IMPACT 3

Would the Project achieve the goal of energy conservation by:

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

As previously stated, the proposed Project is subject to California Building Code and the City of San Diego Climate Action Plan. New buildings must achieve compliance with 2019 Building and Energy Efficiency Standards, the 2019 California Green Building Standards, and City CAP Checklist requirements. The CEC anticipates that nonresidential buildings will use approximately 30% less energy due to lighting upgrades compared to the prior code (21). The City CAP Checklist requires

project to achieve energy and water efficiencies greater than required by the 2019 Building Codes, including achieving a 10% increase in energy efficiency over the “current standard”. The demolition of the existing structures would also represent a significant increase in building energy efficiencies as they were built prior to 2005.

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

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5 REFERENCES

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6 CERTIFICATIONS

The contents of this energy report represent an accurate depiction of the environmental impacts associated with the proposed Towne Centre View 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 (619) 778-1971 or bmaddux@urbanxroads.com.

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EDUCATION

Bachelor of Science in Urban and Regional Planning
California Polytechnic State University, Pomona • June 2000

PROFESSIONAL AFFILIATIONS

ASA – Acoustical Society of America
APA – American Planning Association
AWMA – Air and Waste Management Association

PROFESSIONAL CERTIFICATIONS

HARP Model Training – Bluescape Environmental • 2004
Air Dispersion Modeling – Lakes Environmental • 2008

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APPENDIX 4.1

PROPOSED PROJECT CALEEMOD EMISSIONS MODEL OUTPUTS

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TCV-Full Operation - San Diego County APCD Air District, Annual

TCV-Full Operation
San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	999.39	1000sqft	24.49	999,386.00	0
Enclosed Parking with Elevator	2,611.00	Space	0.00	1,044,400.00	0
Parking Lot	112.00	Space	1.01	44,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	400.81	CH4 Intensity (lb/MWhr)	0.017	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - RPS Effect on 2028 - SDG&E 54.67% 400.81 CO2, 0.0166 CH4, and 0.0035 N2O

Land Use - site plan

Construction Phase - Project Construciton Schedule

Trips and VMT - Corrected to account for actual building construction during individaul phases.

Demolition - Total of 15948 tons of demo debris

Grading - Site is 25.5 acres, export/import based on contractor estimates, totals exceed grading plan

Architectural Coating - SDAPCD rule 67.0.1 Area reduced to only buildings being ocnstructed during each phase. Parking is all include in Phase 1 for modeling, exterior reduced area painting due to non-painted surfaces

Vehicle Trips - Based on Tarffic Report Trip Generation

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors -

Consumer Products - No operation

Area Coating - SDAPCD Rule 67.0.1 and Reduced exterior painting area

Landscape Equipment -

Energy Use - Based on 2020 Energy Code 30% Improvement over 2016

Water And Wastewater - CalGreen reduces indoor water use 20%

Solid Waste - 25% increase in waste diversion over 2008 survey used in CalEEMod

Fleet Mix - No Buses or motor homes

Stationary Sources - Process Boilers -

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tblVehicleEF	HHD	1,541.16	1,293.14
tblVehicleEF	HHD	10.98	0.07
tblVehicleEF	HHD	13.78	5.28
tblVehicleEF	HHD	1.59	2.38
tblVehicleEF	HHD	5.3030e-003	2.2165e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04

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tblVehicleEF	HHD	5.7560e-003	0.02
tblVehicleEF	HHD	1.1300e-004	7.2768e-007
tblVehicleEF	HHD	5.0740e-003	2.1207e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8100e-003	8.8716e-003
tblVehicleEF	HHD	5.5070e-003	0.02
tblVehicleEF	HHD	1.0400e-004	6.6907e-007
tblVehicleEF	HHD	1.1700e-004	3.1790e-006
tblVehicleEF	HHD	4.1500e-003	1.1100e-004
tblVehicleEF	HHD	0.36	0.47
tblVehicleEF	HHD	1.3000e-004	3.4903e-006
tblVehicleEF	HHD	0.08	0.03
tblVehicleEF	HHD	3.4800e-004	4.9719e-004
tblVehicleEF	HHD	0.06	2.3687e-006
tblVehicleEF	HHD	0.04	9.2350e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.6300e-004	7.3159e-007
tblVehicleEF	HHD	1.1700e-004	3.1790e-006
tblVehicleEF	HHD	4.1500e-003	1.1100e-004
tblVehicleEF	HHD	0.44	0.54
tblVehicleEF	HHD	1.3000e-004	3.4903e-006
tblVehicleEF	HHD	0.23	0.11
tblVehicleEF	HHD	3.4800e-004	4.9719e-004
tblVehicleEF	HHD	0.07	2.5935e-006
tblVehicleEF	HHD	0.52	0.02
tblVehicleEF	HHD	0.14	1.1167e-003
tblVehicleEF	HHD	0.06	4.8698e-007

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tblVehicleEF	HHD	2.15	6.57
tblVehicleEF	HHD	1.18	0.25
tblVehicleEF	HHD	3.55	8.2634e-003
tblVehicleEF	HHD	3,891.38	1,005.27
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tblVehicleEF	HHD	10.98	0.08
tblVehicleEF	HHD	12.76	5.74
tblVehicleEF	HHD	1.65	2.44
tblVehicleEF	HHD	7.6540e-003	2.7792e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	5.7560e-003	0.02
tblVehicleEF	HHD	1.1300e-004	7.2768e-007
tblVehicleEF	HHD	7.3230e-003	2.6590e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8100e-003	8.6391e-003
tblVehicleEF	HHD	5.5070e-003	0.02
tblVehicleEF	HHD	1.0400e-004	6.6907e-007
tblVehicleEF	HHD	6.7000e-005	1.8299e-006
tblVehicleEF	HHD	4.2610e-003	1.1696e-004
tblVehicleEF	HHD	0.42	0.40
tblVehicleEF	HHD	6.8000e-005	1.7594e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.0900e-004	5.7167e-004
tblVehicleEF	HHD	0.07	2.5367e-006
tblVehicleEF	HHD	0.04	9.4973e-003
tblVehicleEF	HHD	0.01	0.01

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tblVehicleEF	HHD	1.6800e-004	7.4255e-007
tblVehicleEF	HHD	6.7000e-005	1.8299e-006
tblVehicleEF	HHD	4.2610e-003	1.1696e-004
tblVehicleEF	HHD	0.50	0.46
tblVehicleEF	HHD	6.8000e-005	1.7594e-006
tblVehicleEF	HHD	0.23	0.03
tblVehicleEF	HHD	4.0900e-004	5.7167e-004
tblVehicleEF	HHD	0.07	2.7774e-006
tblVehicleEF	LDA	4.7610e-003	1.2052e-003
tblVehicleEF	LDA	5.3800e-003	0.03
tblVehicleEF	LDA	0.46	0.42
tblVehicleEF	LDA	1.07	1.73
tblVehicleEF	LDA	203.37	228.87
tblVehicleEF	LDA	44.55	46.63
tblVehicleEF	LDA	0.05	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.4830e-003	1.1628e-003
tblVehicleEF	LDA	2.0450e-003	1.4532e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.3650e-003	1.0704e-003
tblVehicleEF	LDA	1.8800e-003	1.3362e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.01	4.1194e-003

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tblVehicleEF	LDA	0.03	0.17
tblVehicleEF	LDA	0.07	0.13
tblVehicleEF	LDA	2.0370e-003	2.1461e-003
tblVehicleEF	LDA	4.6400e-004	4.3727e-004
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	5.9962e-003
tblVehicleEF	LDA	0.03	0.18
tblVehicleEF	LDA	0.08	0.15
tblVehicleEF	LDA	5.1320e-003	1.3137e-003
tblVehicleEF	LDA	4.7020e-003	0.03
tblVehicleEF	LDA	0.51	0.47
tblVehicleEF	LDA	0.89	1.43
tblVehicleEF	LDA	214.89	241.53
tblVehicleEF	LDA	44.55	46.08
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.4830e-003	1.1628e-003
tblVehicleEF	LDA	2.0450e-003	1.4532e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.3650e-003	1.0704e-003
tblVehicleEF	LDA	1.8800e-003	1.3362e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.06	0.07

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tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.01	4.4319e-003
tblVehicleEF	LDA	0.03	0.16
tblVehicleEF	LDA	0.06	0.12
tblVehicleEF	LDA	2.1520e-003	2.2648e-003
tblVehicleEF	LDA	4.6100e-004	4.3209e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.02	6.4533e-003
tblVehicleEF	LDA	0.03	0.16
tblVehicleEF	LDA	0.07	0.13
tblVehicleEF	LDA	4.6800e-003	1.1791e-003
tblVehicleEF	LDA	5.6570e-003	0.03
tblVehicleEF	LDA	0.45	0.41
tblVehicleEF	LDA	1.14	1.86
tblVehicleEF	LDA	201.29	226.58
tblVehicleEF	LDA	44.55	46.86
tblVehicleEF	LDA	0.05	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.4830e-003	1.1628e-003
tblVehicleEF	LDA	2.0450e-003	1.4532e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.3650e-003	1.0704e-003
tblVehicleEF	LDA	1.8800e-003	1.3362e-003

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tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.01	4.0506e-003
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.14
tblVehicleEF	LDA	2.0160e-003	2.1247e-003
tblVehicleEF	LDA	4.6500e-004	4.3942e-004
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	5.8955e-003
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.15
tblVehicleEF	LDT1	6.2920e-003	3.1404e-003
tblVehicleEF	LDT1	8.3870e-003	0.05
tblVehicleEF	LDT1	0.76	0.72
tblVehicleEF	LDT1	1.76	1.94
tblVehicleEF	LDT1	269.96	283.24
tblVehicleEF	LDT1	59.83	58.55
tblVehicleEF	LDT1	0.08	0.06
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.0190e-003	1.4829e-003
tblVehicleEF	LDT1	2.6650e-003	1.8341e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003

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tblVehicleEF	LDT1	1.8570e-003	1.3638e-003
tblVehicleEF	LDT1	2.4510e-003	1.6864e-003
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.20	0.15
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.15	0.55
tblVehicleEF	LDT1	0.11	0.23
tblVehicleEF	LDT1	2.7070e-003	2.6558e-003
tblVehicleEF	LDT1	6.2900e-004	5.4896e-004
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.20	0.15
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.15	0.55
tblVehicleEF	LDT1	0.12	0.25
tblVehicleEF	LDT1	6.7380e-003	3.3953e-003
tblVehicleEF	LDT1	7.2840e-003	0.04
tblVehicleEF	LDT1	0.85	0.81
tblVehicleEF	LDT1	1.45	1.60
tblVehicleEF	LDT1	284.71	296.67
tblVehicleEF	LDT1	59.83	57.89
tblVehicleEF	LDT1	0.07	0.05
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.0190e-003	1.4829e-003
tblVehicleEF	LDT1	2.6650e-003	1.8341e-003

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tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	1.8570e-003	1.3638e-003
tblVehicleEF	LDT1	2.4510e-003	1.6864e-003
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.21	0.16
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.14	0.50
tblVehicleEF	LDT1	0.10	0.20
tblVehicleEF	LDT1	2.8560e-003	2.7817e-003
tblVehicleEF	LDT1	6.2300e-004	5.4277e-004
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.21	0.16
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.50
tblVehicleEF	LDT1	0.11	0.22
tblVehicleEF	LDT1	6.1940e-003	3.0788e-003
tblVehicleEF	LDT1	8.8370e-003	0.05
tblVehicleEF	LDT1	0.75	0.71
tblVehicleEF	LDT1	1.89	2.08
tblVehicleEF	LDT1	267.29	280.81
tblVehicleEF	LDT1	59.83	58.82
tblVehicleEF	LDT1	0.08	0.06
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003

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tblVehicleEF	LDT1	2.0190e-003	1.4829e-003
tblVehicleEF	LDT1	2.6650e-003	1.8341e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	1.8570e-003	1.3638e-003
tblVehicleEF	LDT1	2.4510e-003	1.6864e-003
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.23	0.17
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.18	0.67
tblVehicleEF	LDT1	0.12	0.24
tblVehicleEF	LDT1	2.6800e-003	2.6330e-003
tblVehicleEF	LDT1	6.3100e-004	5.5154e-004
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.23	0.17
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.18	0.67
tblVehicleEF	LDT1	0.13	0.26
tblVehicleEF	LDT2	3.5980e-003	2.2606e-003
tblVehicleEF	LDT2	3.5750e-003	0.05
tblVehicleEF	LDT2	0.50	0.59
tblVehicleEF	LDT2	0.92	2.28
tblVehicleEF	LDT2	294.81	290.11
tblVehicleEF	LDT2	64.38	60.09
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	1.6240e-003	1.2513e-003
tblVehicleEF	LDT2	2.2130e-003	1.4848e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.4940e-003	1.1520e-003
tblVehicleEF	LDT2	2.0350e-003	1.3652e-003
tblVehicleEF	LDT2	0.03	0.05
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	8.9330e-003	8.6462e-003
tblVehicleEF	LDT2	0.06	0.37
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	2.9510e-003	2.7203e-003
tblVehicleEF	LDT2	6.5900e-004	5.6343e-004
tblVehicleEF	LDT2	0.03	0.05
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.37
tblVehicleEF	LDT2	0.05	0.23
tblVehicleEF	LDT2	3.8720e-003	2.4537e-003
tblVehicleEF	LDT2	3.1270e-003	0.04
tblVehicleEF	LDT2	0.57	0.66
tblVehicleEF	LDT2	0.78	1.88
tblVehicleEF	LDT2	311.16	302.56

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tblVehicleEF	LDT2	64.38	59.34
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.6240e-003	1.2513e-003
tblVehicleEF	LDT2	2.2130e-003	1.4848e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.4940e-003	1.1520e-003
tblVehicleEF	LDT2	2.0350e-003	1.3652e-003
tblVehicleEF	LDT2	0.04	0.08
tblVehicleEF	LDT2	0.08	0.11
tblVehicleEF	LDT2	0.06	0.11
tblVehicleEF	LDT2	9.6110e-003	9.2814e-003
tblVehicleEF	LDT2	0.05	0.34
tblVehicleEF	LDT2	0.04	0.18
tblVehicleEF	LDT2	3.1150e-003	2.8371e-003
tblVehicleEF	LDT2	6.5600e-004	5.5640e-004
tblVehicleEF	LDT2	0.04	0.08
tblVehicleEF	LDT2	0.08	0.11
tblVehicleEF	LDT2	0.06	0.11
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.34
tblVehicleEF	LDT2	0.05	0.20
tblVehicleEF	LDT2	3.5370e-003	2.2139e-003
tblVehicleEF	LDT2	3.7590e-003	0.05
tblVehicleEF	LDT2	0.49	0.58

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tblVehicleEF	LDT2	0.99	2.45
tblVehicleEF	LDT2	291.85	287.86
tblVehicleEF	LDT2	64.38	60.40
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.6240e-003	1.2513e-003
tblVehicleEF	LDT2	2.2130e-003	1.4848e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.4940e-003	1.1520e-003
tblVehicleEF	LDT2	2.0350e-003	1.3652e-003
tblVehicleEF	LDT2	0.02	0.04
tblVehicleEF	LDT2	0.08	0.11
tblVehicleEF	LDT2	0.03	0.06
tblVehicleEF	LDT2	8.7830e-003	8.5058e-003
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	2.9210e-003	2.6992e-003
tblVehicleEF	LDT2	6.6000e-004	5.6637e-004
tblVehicleEF	LDT2	0.02	0.04
tblVehicleEF	LDT2	0.08	0.11
tblVehicleEF	LDT2	0.03	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LHD1	3.7520e-003	4.0275e-003

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tblVehicleEF	LHD1	0.01	6.3294e-003
tblVehicleEF	LHD1	0.01	9.5669e-003
tblVehicleEF	LHD1	0.13	0.17
tblVehicleEF	LHD1	0.75	0.59
tblVehicleEF	LHD1	1.64	0.84
tblVehicleEF	LHD1	9.20	8.71
tblVehicleEF	LHD1	639.43	704.27
tblVehicleEF	LHD1	24.48	9.45
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.91	0.58
tblVehicleEF	LHD1	9.5900e-004	1.0227e-003
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.9114e-003
tblVehicleEF	LHD1	6.4600e-004	2.0109e-004
tblVehicleEF	LHD1	9.1800e-004	9.7849e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.6350e-003	2.5164e-003
tblVehicleEF	LHD1	0.01	9.4416e-003
tblVehicleEF	LHD1	5.9400e-004	1.8490e-004
tblVehicleEF	LHD1	1.6900e-003	1.3882e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.3600e-003	1.1224e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.25	0.42
tblVehicleEF	LHD1	0.15	0.05

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tblVehicleEF	LHD1	9.1000e-005	8.4081e-005
tblVehicleEF	LHD1	6.2390e-003	6.8549e-003
tblVehicleEF	LHD1	2.7500e-004	9.3504e-005
tblVehicleEF	LHD1	1.6900e-003	1.3882e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3600e-003	1.1224e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.25	0.42
tblVehicleEF	LHD1	0.16	0.05
tblVehicleEF	LHD1	3.7520e-003	4.0356e-003
tblVehicleEF	LHD1	0.01	6.3999e-003
tblVehicleEF	LHD1	0.01	9.1704e-003
tblVehicleEF	LHD1	0.13	0.17
tblVehicleEF	LHD1	0.76	0.60
tblVehicleEF	LHD1	1.55	0.80
tblVehicleEF	LHD1	9.20	8.71
tblVehicleEF	LHD1	639.43	704.28
tblVehicleEF	LHD1	24.48	9.37
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.87	0.56
tblVehicleEF	LHD1	9.5900e-004	1.0227e-003
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.9114e-003
tblVehicleEF	LHD1	6.4600e-004	2.0109e-004
tblVehicleEF	LHD1	9.1800e-004	9.7849e-004

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tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.6350e-003	2.5164e-003
tblVehicleEF	LHD1	0.01	9.4416e-003
tblVehicleEF	LHD1	5.9400e-004	1.8490e-004
tblVehicleEF	LHD1	2.4320e-003	2.0048e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.2490e-003	1.8657e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.24	0.41
tblVehicleEF	LHD1	0.14	0.05
tblVehicleEF	LHD1	9.1000e-005	8.4081e-005
tblVehicleEF	LHD1	6.2390e-003	6.8550e-003
tblVehicleEF	LHD1	2.7300e-004	9.2752e-005
tblVehicleEF	LHD1	2.4320e-003	2.0048e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.2490e-003	1.8657e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.24	0.41
tblVehicleEF	LHD1	0.16	0.05
tblVehicleEF	LHD1	3.7520e-003	4.0239e-003
tblVehicleEF	LHD1	0.01	6.2978e-003
tblVehicleEF	LHD1	0.01	9.7450e-003
tblVehicleEF	LHD1	0.13	0.17
tblVehicleEF	LHD1	0.75	0.59
tblVehicleEF	LHD1	1.68	0.86

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tblVehicleEF	LHD1	9.20	8.71
tblVehicleEF	LHD1	639.43	704.26
tblVehicleEF	LHD1	24.48	9.48
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.91	0.58
tblVehicleEF	LHD1	9.5900e-004	1.0227e-003
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.9114e-003
tblVehicleEF	LHD1	6.4600e-004	2.0109e-004
tblVehicleEF	LHD1	9.1800e-004	9.7849e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.6350e-003	2.5164e-003
tblVehicleEF	LHD1	0.01	9.4416e-003
tblVehicleEF	LHD1	5.9400e-004	1.8490e-004
tblVehicleEF	LHD1	1.5290e-003	1.2545e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.2010e-003	9.9115e-004
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.28	0.47
tblVehicleEF	LHD1	0.15	0.05
tblVehicleEF	LHD1	9.1000e-005	8.4081e-005
tblVehicleEF	LHD1	6.2390e-003	6.8549e-003
tblVehicleEF	LHD1	2.7600e-004	9.3855e-005
tblVehicleEF	LHD1	1.5290e-003	1.2545e-003
tblVehicleEF	LHD1	0.09	0.07

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tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.2010e-003	9.9115e-004
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.28	0.47
tblVehicleEF	LHD1	0.17	0.05
tblVehicleEF	LHD2	2.7300e-003	2.7125e-003
tblVehicleEF	LHD2	5.5780e-003	5.6967e-003
tblVehicleEF	LHD2	3.8240e-003	5.6550e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.47	0.53
tblVehicleEF	LHD2	0.89	0.49
tblVehicleEF	LHD2	13.76	13.49
tblVehicleEF	LHD2	681.63	705.79
tblVehicleEF	LHD2	22.33	6.73
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.34	0.58
tblVehicleEF	LHD2	1.1010e-003	1.4732e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6200e-004	1.0547e-004
tblVehicleEF	LHD2	1.0530e-003	1.4095e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7040e-003	2.7074e-003
tblVehicleEF	LHD2	9.9450e-003	0.01
tblVehicleEF	LHD2	3.3300e-004	9.6972e-005
tblVehicleEF	LHD2	5.1300e-004	6.6899e-004

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tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.6900e-004	5.8953e-004
tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	0.04	0.16
tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	LHD2	1.3400e-004	1.2885e-004
tblVehicleEF	LHD2	6.6240e-003	6.8090e-003
tblVehicleEF	LHD2	2.3900e-004	6.6630e-005
tblVehicleEF	LHD2	5.1300e-004	6.6899e-004
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.6900e-004	5.8953e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.04	0.16
tblVehicleEF	LHD2	0.06	0.03
tblVehicleEF	LHD2	2.7300e-003	2.7178e-003
tblVehicleEF	LHD2	5.6120e-003	5.7265e-003
tblVehicleEF	LHD2	3.7040e-003	5.4225e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.47	0.53
tblVehicleEF	LHD2	0.85	0.46
tblVehicleEF	LHD2	13.76	13.49
tblVehicleEF	LHD2	681.63	705.79
tblVehicleEF	LHD2	22.33	6.69
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.33	0.56

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tblVehicleEF	LHD2	1.1010e-003	1.4732e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6200e-004	1.0547e-004
tblVehicleEF	LHD2	1.0530e-003	1.4095e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7040e-003	2.7074e-003
tblVehicleEF	LHD2	9.9450e-003	0.01
tblVehicleEF	LHD2	3.3300e-004	9.6972e-005
tblVehicleEF	LHD2	7.4600e-004	9.6928e-004
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.8100e-004	9.8147e-004
tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	0.04	0.16
tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	LHD2	1.3400e-004	1.2885e-004
tblVehicleEF	LHD2	6.6240e-003	6.8090e-003
tblVehicleEF	LHD2	2.3800e-004	6.6198e-005
tblVehicleEF	LHD2	7.4600e-004	9.6928e-004
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.8100e-004	9.8147e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.04	0.16
tblVehicleEF	LHD2	0.05	0.03

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tblVehicleEF	LHD2	2.7300e-003	2.7102e-003
tblVehicleEF	LHD2	5.5630e-003	5.6833e-003
tblVehicleEF	LHD2	3.8780e-003	5.7595e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.47	0.53
tblVehicleEF	LHD2	0.91	0.50
tblVehicleEF	LHD2	13.76	13.49
tblVehicleEF	LHD2	681.63	705.79
tblVehicleEF	LHD2	22.33	6.75
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.34	0.58
tblVehicleEF	LHD2	1.1010e-003	1.4732e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6200e-004	1.0547e-004
tblVehicleEF	LHD2	1.0530e-003	1.4095e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7040e-003	2.7074e-003
tblVehicleEF	LHD2	9.9450e-003	0.01
tblVehicleEF	LHD2	3.3300e-004	9.6972e-005
tblVehicleEF	LHD2	4.4300e-004	5.8493e-004
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.1200e-004	5.1802e-004
tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	0.05	0.18

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tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	LHD2	1.3400e-004	1.2885e-004
tblVehicleEF	LHD2	6.6240e-003	6.8090e-003
tblVehicleEF	LHD2	2.3900e-004	6.6833e-005
tblVehicleEF	LHD2	4.4300e-004	5.8493e-004
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1200e-004	5.1802e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.05	0.18
tblVehicleEF	LHD2	0.06	0.03
tblVehicleEF	MCY	0.50	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.96	19.20
tblVehicleEF	MCY	9.83	8.73
tblVehicleEF	MCY	184.04	220.08
tblVehicleEF	MCY	43.71	59.15
tblVehicleEF	MCY	1.15	1.15
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3180e-003	2.2642e-003
tblVehicleEF	MCY	3.3080e-003	2.8107e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1630e-003	2.1132e-003
tblVehicleEF	MCY	3.1000e-003	2.6349e-003
tblVehicleEF	MCY	0.91	0.95

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tblVehicleEF	MCY	0.67	0.72
tblVehicleEF	MCY	0.69	0.73
tblVehicleEF	MCY	2.35	2.36
tblVehicleEF	MCY	0.48	1.64
tblVehicleEF	MCY	2.04	1.82
tblVehicleEF	MCY	2.2210e-003	2.1779e-003
tblVehicleEF	MCY	6.5800e-004	5.8535e-004
tblVehicleEF	MCY	0.91	0.95
tblVehicleEF	MCY	0.67	0.72
tblVehicleEF	MCY	0.69	0.73
tblVehicleEF	MCY	2.93	2.95
tblVehicleEF	MCY	0.48	1.64
tblVehicleEF	MCY	2.22	1.98
tblVehicleEF	MCY	0.49	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.12	18.34
tblVehicleEF	MCY	8.82	7.79
tblVehicleEF	MCY	184.04	218.49
tblVehicleEF	MCY	43.71	56.88
tblVehicleEF	MCY	1.03	1.03
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3180e-003	2.2642e-003
tblVehicleEF	MCY	3.3080e-003	2.8107e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1630e-003	2.1132e-003

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tblVehicleEF	MCY	3.1000e-003	2.6349e-003
tblVehicleEF	MCY	1.46	1.52
tblVehicleEF	MCY	0.76	0.82
tblVehicleEF	MCY	1.34	1.40
tblVehicleEF	MCY	2.29	2.30
tblVehicleEF	MCY	0.44	1.51
tblVehicleEF	MCY	1.79	1.58
tblVehicleEF	MCY	2.2050e-003	2.1621e-003
tblVehicleEF	MCY	6.3400e-004	5.6287e-004
tblVehicleEF	MCY	1.46	1.52
tblVehicleEF	MCY	0.76	0.82
tblVehicleEF	MCY	1.34	1.40
tblVehicleEF	MCY	2.86	2.87
tblVehicleEF	MCY	0.44	1.51
tblVehicleEF	MCY	1.95	1.72
tblVehicleEF	MCY	0.50	0.35
tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	19.55	19.80
tblVehicleEF	MCY	10.35	9.20
tblVehicleEF	MCY	184.04	221.16
tblVehicleEF	MCY	43.71	60.27
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3180e-003	2.2642e-003
tblVehicleEF	MCY	3.3080e-003	2.8107e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003

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tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1630e-003	2.1132e-003
tblVehicleEF	MCY	3.1000e-003	2.6349e-003
tblVehicleEF	MCY	0.83	0.86
tblVehicleEF	MCY	0.89	0.95
tblVehicleEF	MCY	0.54	0.58
tblVehicleEF	MCY	2.38	2.39
tblVehicleEF	MCY	0.57	1.97
tblVehicleEF	MCY	2.16	1.93
tblVehicleEF	MCY	2.2310e-003	2.1885e-003
tblVehicleEF	MCY	6.7000e-004	5.9643e-004
tblVehicleEF	MCY	0.83	0.86
tblVehicleEF	MCY	0.89	0.95
tblVehicleEF	MCY	0.54	0.58
tblVehicleEF	MCY	2.97	2.99
tblVehicleEF	MCY	0.57	1.97
tblVehicleEF	MCY	2.36	2.10
tblVehicleEF	MDV	5.4680e-003	2.2927e-003
tblVehicleEF	MDV	7.1810e-003	0.05
tblVehicleEF	MDV	0.65	0.58
tblVehicleEF	MDV	1.48	2.38
tblVehicleEF	MDV	396.54	350.42
tblVehicleEF	MDV	86.18	72.06
tblVehicleEF	MDV	0.07	0.04
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.6440e-003	1.2452e-003

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tblVehicleEF	MDV	2.1840e-003	1.4721e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.5140e-003	1.1480e-003
tblVehicleEF	MDV	2.0080e-003	1.3536e-003
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.12	0.11
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.01	8.9056e-003
tblVehicleEF	MDV	0.08	0.38
tblVehicleEF	MDV	0.10	0.23
tblVehicleEF	MDV	3.9650e-003	3.2865e-003
tblVehicleEF	MDV	8.8700e-004	6.7567e-004
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.12	0.11
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.08	0.38
tblVehicleEF	MDV	0.11	0.25
tblVehicleEF	MDV	5.8800e-003	2.4903e-003
tblVehicleEF	MDV	6.2620e-003	0.04
tblVehicleEF	MDV	0.73	0.65
tblVehicleEF	MDV	1.23	1.96
tblVehicleEF	MDV	417.93	362.76
tblVehicleEF	MDV	86.18	71.27
tblVehicleEF	MDV	0.06	0.04
tblVehicleEF	MDV	0.04	0.04

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tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.6440e-003	1.2452e-003
tblVehicleEF	MDV	2.1840e-003	1.4721e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.5140e-003	1.1480e-003
tblVehicleEF	MDV	2.0080e-003	1.3536e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.01	9.5507e-003
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.08	0.20
tblVehicleEF	MDV	4.1800e-003	3.4021e-003
tblVehicleEF	MDV	8.8200e-004	6.6825e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.09	0.22
tblVehicleEF	MDV	5.3790e-003	2.2451e-003
tblVehicleEF	MDV	7.5590e-003	0.05
tblVehicleEF	MDV	0.64	0.57
tblVehicleEF	MDV	1.58	2.55
tblVehicleEF	MDV	392.67	348.19
tblVehicleEF	MDV	86.18	72.39

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tblVehicleEF	MDV	0.07	0.04
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.6440e-003	1.2452e-003
tblVehicleEF	MDV	2.1840e-003	1.4721e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.5140e-003	1.1480e-003
tblVehicleEF	MDV	2.0080e-003	1.3536e-003
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.01	8.7647e-003
tblVehicleEF	MDV	0.10	0.46
tblVehicleEF	MDV	0.10	0.24
tblVehicleEF	MDV	3.9260e-003	3.2656e-003
tblVehicleEF	MDV	8.8800e-004	6.7878e-004
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.10	0.46
tblVehicleEF	MDV	0.11	0.27
tblVehicleEF	MH	0.02	5.3008e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.23	0.40
tblVehicleEF	MH	4.56	0.00

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tblVehicleEF	MH	1,206.86	976.48
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tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2180e-003	4.0000e-003
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tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.27	0.00
tblVehicleEF	MH	0.01	9.2313e-003
tblVehicleEF	MH	6.6200e-004	0.00
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tblVehicleEF	MH	0.40	0.00
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tblVehicleEF	MH	0.02	0.00
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tblVehicleEF	MH	0.02	0.00

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tblVehicleEF	MH	1.26	0.40
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tblVehicleEF	MH	0.97	0.00
tblVehicleEF	MH	0.06	0.00
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tblVehicleEF	MH	6.5700e-004	0.00
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tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.68	0.00
tblVehicleEF	MH	0.09	0.13
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.28	0.00

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tblVehicleEF	MH	0.06	0.06
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tblVehicleEF	MH	0.01	9.2313e-003
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tblVehicleEF	MH	0.09	0.13

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tblVehicleEF	MHD	0.01	0.01
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tblVehicleEF	MHD	3.0000e-003	3.0000e-003
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tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.01	0.08
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tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	4.9500e-004	2.7118e-004
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tblVehicleEF	MHD	0.01	0.08
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tblVehicleEF	MHD	3.0790e-003	6.6695e-003
tblVehicleEF	MHD	7.4400e-004	1.1222e-004
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tblVehicleEF	MHD	3.0000e-003	3.0000e-003
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tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	8.4100e-004	4.6088e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.01	0.08
tblVehicleEF	MHD	0.23	0.05
tblVehicleEF	MHD	0.02	4.1823e-003
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tblVehicleEF	MHD	0.44	0.49
tblVehicleEF	MHD	0.26	0.18
tblVehicleEF	MHD	3.73	0.96
tblVehicleEF	MHD	133.56	71.79
tblVehicleEF	MHD	1,174.94	1,019.18
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tblVehicleEF	MHD	1.08	1.36
tblVehicleEF	MHD	9.9000e-005	2.7505e-004
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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	3.0790e-003	6.6695e-003
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tblVehicleEF	MHD	9.5000e-005	2.6315e-004
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tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.9400e-003	6.3734e-003
tblVehicleEF	MHD	6.8400e-004	1.0318e-004
tblVehicleEF	MHD	4.9300e-004	2.7286e-004
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tblVehicleEF	MHD	4.3500e-004	2.3794e-004
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tblVehicleEF	MHD	0.01	0.09
tblVehicleEF	MHD	0.23	0.05
tblVehicleEF	MHD	1.2870e-003	6.8097e-004
tblVehicleEF	MHD	0.01	9.7337e-003

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tblVehicleEF	MHD	6.0300e-004	9.0229e-005
tblVehicleEF	MHD	4.9300e-004	2.7286e-004
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tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	4.3500e-004	2.3794e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.01	0.09
tblVehicleEF	MHD	0.25	0.05
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tblVehicleEF	OBUS	5.8330e-003	5.1761e-003
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tblVehicleEF	OBUS	0.25	0.66
tblVehicleEF	OBUS	0.40	0.57
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tblVehicleEF	OBUS	106.53	92.68
tblVehicleEF	OBUS	1,307.62	1,393.34
tblVehicleEF	OBUS	67.73	18.53
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tblVehicleEF	OBUS	0.83	1.17
tblVehicleEF	OBUS	2.1000e-005	1.3186e-004
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.7830e-003	7.9063e-003
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tblVehicleEF	OBUS	2.0000e-005	1.2616e-004
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tblVehicleEF	OBUS	3.0000e-003	3.0000e-003

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tblVehicleEF	OBUS	2.6350e-003	7.5397e-003
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tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	8.3400e-004	1.1367e-003
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tblVehicleEF	OBUS	0.04	0.31
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tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	8.3400e-004	1.1367e-003
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.04	0.31
tblVehicleEF	OBUS	0.32	0.12
tblVehicleEF	OBUS	0.01	8.8761e-003
tblVehicleEF	OBUS	5.9450e-003	5.3032e-003
tblVehicleEF	OBUS	0.02	0.02
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tblVehicleEF	OBUS	0.40	0.58
tblVehicleEF	OBUS	4.33	2.18
tblVehicleEF	OBUS	111.87	91.62
tblVehicleEF	OBUS	1,307.62	1,393.36

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tblVehicleEF	OBUS	0.01	0.01
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tblVehicleEF	OBUS	9.8700e-004	2.3227e-004
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tblVehicleEF	OBUS	0.04	0.30
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tblVehicleEF	OBUS	1.0790e-003	8.7150e-004
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tblVehicleEF	OBUS	7.5300e-004	1.8089e-004
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tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	1.4750e-003	1.9955e-003

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tblVehicleEF	OBUS	0.05	0.04
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tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
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tblVehicleEF	OBUS	7.6100e-004	1.8455e-004
tblVehicleEF	OBUS	1.1330e-003	1.6447e-003
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tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.4800e-004	1.0247e-003
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tblVehicleEF	SBUS	0.01	0.01
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tblVehicleEF	SBUS	5.9200e-004	2.6061e-005
tblVehicleEF	SBUS	2.3250e-003	2.6764e-004
tblVehicleEF	SBUS	0.02	2.8793e-003
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tblVehicleEF	SBUS	9.4610e-003	5.8775e-003

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tblVehicleEF	SBUS	0.05	2.8480e-003
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tblVehicleEF	SBUS	0.01	0.03
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tblVehicleEF	SBUS	8.5200e-004	4.0741e-005
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tblVehicleEF	SBUS	2.9850e-003	3.4140e-004
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tblVehicleEF	SBUS	9.7570e-003	0.02
tblVehicleEF	SBUS	0.28	0.02
tblVehicleEF	SBUS	0.01	3.1708e-003

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tblVehicleEF	SBUS	0.01	9.6659e-003
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tblVehicleEF	SBUS	2.9850e-003	3.4140e-004
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tblVehicleEF	SBUS	9.7570e-003	0.02
tblVehicleEF	SBUS	0.30	0.02
tblVehicleEF	SBUS	0.82	0.04
tblVehicleEF	SBUS	9.1980e-003	5.7903e-003
tblVehicleEF	SBUS	0.06	3.4827e-003
tblVehicleEF	SBUS	7.29	1.85
tblVehicleEF	SBUS	0.58	0.44
tblVehicleEF	SBUS	6.73	0.50
tblVehicleEF	SBUS	1,054.37	314.08
tblVehicleEF	SBUS	1,066.59	1,014.65
tblVehicleEF	SBUS	48.71	2.72
tblVehicleEF	SBUS	6.03	3.27
tblVehicleEF	SBUS	2.38	5.24
tblVehicleEF	SBUS	4.8620e-003	4.2018e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	9.2700e-004	4.4310e-005
tblVehicleEF	SBUS	4.6520e-003	4.0200e-003
tblVehicleEF	SBUS	0.32	0.32

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tblVehicleEF	SBUS	2.6750e-003	2.7685e-003
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	8.5200e-004	4.0741e-005
tblVehicleEF	SBUS	2.0950e-003	2.4589e-004
tblVehicleEF	SBUS	0.03	2.9909e-003
tblVehicleEF	SBUS	0.85	0.19
tblVehicleEF	SBUS	1.5160e-003	1.7020e-004
tblVehicleEF	SBUS	0.08	0.09
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.34	0.02
tblVehicleEF	SBUS	0.01	2.9832e-003
tblVehicleEF	SBUS	0.01	9.6658e-003
tblVehicleEF	SBUS	6.0300e-004	2.6875e-005
tblVehicleEF	SBUS	2.0950e-003	2.4589e-004
tblVehicleEF	SBUS	0.03	2.9909e-003
tblVehicleEF	SBUS	1.23	0.26
tblVehicleEF	SBUS	1.5160e-003	1.7020e-004
tblVehicleEF	SBUS	0.10	0.11
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.37	0.02
tblVehicleEF	UBUS	1.31	4.89
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	5.83	38.17
tblVehicleEF	UBUS	7.51	1.20
tblVehicleEF	UBUS	1,813.97	1,887.51
tblVehicleEF	UBUS	130.70	13.52
tblVehicleEF	UBUS	3.65	0.41

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tblVehicleEF	UBUS	0.53	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	3.1074e-003
tblVehicleEF	UBUS	1.3030e-003	1.7860e-004
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.1456e-003
tblVehicleEF	UBUS	0.05	2.9510e-003
tblVehicleEF	UBUS	1.1980e-003	1.6422e-004
tblVehicleEF	UBUS	2.4730e-003	8.5002e-004
tblVehicleEF	UBUS	0.05	8.8371e-003
tblVehicleEF	UBUS	2.5950e-003	6.4202e-004
tblVehicleEF	UBUS	0.28	0.07
tblVehicleEF	UBUS	0.01	0.04
tblVehicleEF	UBUS	0.69	0.06
tblVehicleEF	UBUS	9.2860e-003	3.6078e-003
tblVehicleEF	UBUS	1.4450e-003	1.3381e-004
tblVehicleEF	UBUS	2.4730e-003	8.5002e-004
tblVehicleEF	UBUS	0.05	8.8371e-003
tblVehicleEF	UBUS	2.5950e-003	6.4202e-004
tblVehicleEF	UBUS	1.62	5.00
tblVehicleEF	UBUS	0.01	0.04
tblVehicleEF	UBUS	0.76	0.07
tblVehicleEF	UBUS	1.31	4.89
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	5.84	38.17
tblVehicleEF	UBUS	6.43	1.04
tblVehicleEF	UBUS	1,813.97	1,887.51

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tblVehicleEF	UBUS	130.70	13.24
tblVehicleEF	UBUS	3.52	0.41
tblVehicleEF	UBUS	0.53	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	3.1074e-003
tblVehicleEF	UBUS	1.3030e-003	1.7860e-004
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.1456e-003
tblVehicleEF	UBUS	0.05	2.9510e-003
tblVehicleEF	UBUS	1.1980e-003	1.6422e-004
tblVehicleEF	UBUS	3.0430e-003	1.1850e-003
tblVehicleEF	UBUS	0.05	9.3665e-003
tblVehicleEF	UBUS	4.5930e-003	1.1688e-003
tblVehicleEF	UBUS	0.28	0.07
tblVehicleEF	UBUS	9.9980e-003	0.04
tblVehicleEF	UBUS	0.63	0.06
tblVehicleEF	UBUS	9.2860e-003	3.6079e-003
tblVehicleEF	UBUS	1.4260e-003	1.3105e-004
tblVehicleEF	UBUS	3.0430e-003	1.1850e-003
tblVehicleEF	UBUS	0.05	9.3665e-003
tblVehicleEF	UBUS	4.5930e-003	1.1688e-003
tblVehicleEF	UBUS	1.62	5.00
tblVehicleEF	UBUS	9.9980e-003	0.04
tblVehicleEF	UBUS	0.69	0.06
tblVehicleEF	UBUS	1.31	4.89
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	5.82	38.17

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tblVehicleEF	UBUS	7.99	1.28
tblVehicleEF	UBUS	1,813.97	1,887.51
tblVehicleEF	UBUS	130.70	13.65
tblVehicleEF	UBUS	3.64	0.41
tblVehicleEF	UBUS	0.53	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	3.1074e-003
tblVehicleEF	UBUS	1.3030e-003	1.7860e-004
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.1456e-003
tblVehicleEF	UBUS	0.05	2.9510e-003
tblVehicleEF	UBUS	1.1980e-003	1.6422e-004
tblVehicleEF	UBUS	2.2220e-003	7.6131e-004
tblVehicleEF	UBUS	0.05	9.8070e-003
tblVehicleEF	UBUS	2.3270e-003	5.7072e-004
tblVehicleEF	UBUS	0.28	0.07
tblVehicleEF	UBUS	0.01	0.05
tblVehicleEF	UBUS	0.72	0.06
tblVehicleEF	UBUS	9.2860e-003	3.6078e-003
tblVehicleEF	UBUS	1.4540e-003	1.3508e-004
tblVehicleEF	UBUS	2.2220e-003	7.6131e-004
tblVehicleEF	UBUS	0.05	9.8070e-003
tblVehicleEF	UBUS	2.3270e-003	5.7072e-004
tblVehicleEF	UBUS	1.62	5.00
tblVehicleEF	UBUS	0.01	0.05
tblVehicleEF	UBUS	0.79	0.07
tblVehicleTrips	ST_TR	1.90	1.50

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tblVehicleTrips	SU_TR	1.11	0.88
tblVehicleTrips	WD_TR	8.11	6.41
tblWater	IndoorWaterUseRate	491,394,013.90	393,115,211.12

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.4213	5.9265	3.6590	0.0139	0.5456	0.1556	0.7012	0.2314	0.1450	0.3763	0.0000	1,309.8267	1,309.8267	0.2169	0.0000	1,315.2497
2023	0.5074	4.7561	5.0385	0.0109	0.4388	0.2034	0.6422	0.1353	0.1894	0.3248	0.0000	970.8779	970.8779	0.2053	0.0000	976.0112
2024	1.9927	7.5446	6.4164	0.0154	3.0191	0.3060	3.3252	1.5828	0.2842	1.8669	0.0000	1,382.6605	1,382.6605	0.2955	0.0000	1,390.0479
2025	1.5899	5.7035	5.7319	0.0177	0.6088	0.1625	0.7713	0.2135	0.1521	0.3656	0.0000	1,644.7197	1,644.7197	0.2525	0.0000	1,651.0311
2026	0.7966	5.8489	6.9113	0.0152	1.0067	0.2207	1.2274	0.4702	0.2056	0.6758	0.0000	1,358.4133	1,358.4133	0.2775	0.0000	1,365.3517
2027	2.5085	5.5719	5.8691	0.0130	1.5264	0.2154	1.7418	0.7580	0.2010	0.9590	0.0000	1,152.6430	1,152.6430	0.2389	0.0000	1,158.6164
Maximum	2.5085	7.5446	6.9113	0.0177	3.0191	0.3060	3.3252	1.5828	0.2842	1.8669	0.0000	1,644.7197	1,644.7197	0.2955	0.0000	1,651.0311

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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					
2022	0.4213	5.9265	3.6590	0.0139	0.5456	0.1556	0.7012	0.2314	0.1450	0.3763	0.0000	1,309.826 1	1,309.826 1	0.2169	0.0000	1,315.249 0
2023	0.5074	4.7561	5.0385	0.0109	0.4388	0.2034	0.6422	0.1353	0.1894	0.3248	0.0000	970.8771	970.8771	0.2053	0.0000	976.0104
2024	1.9927	7.5446	6.4164	0.0154	3.0191	0.3060	3.3252	1.5828	0.2842	1.8669	0.0000	1,382.659 3	1,382.659 3	0.2955	0.0000	1,390.046 7
2025	1.5899	5.7035	5.7319	0.0177	0.6088	0.1625	0.7713	0.2135	0.1521	0.3656	0.0000	1,644.718 9	1,644.718 9	0.2525	0.0000	1,651.030 2
2026	0.7966	5.8489	6.9113	0.0152	1.0067	0.2207	1.2274	0.4702	0.2056	0.6758	0.0000	1,358.412 2	1,358.412 2	0.2775	0.0000	1,365.350 6
2027	2.5085	5.5719	5.8691	0.0130	1.5264	0.2154	1.7418	0.7580	0.2010	0.9590	0.0000	1,152.642 0	1,152.642 0	0.2389	0.0000	1,158.615 4
Maximum	2.5085	7.5446	6.9113	0.0177	3.0191	0.3060	3.3252	1.5828	0.2842	1.8669	0.0000	1,644.718 9	1,644.718 9	0.2955	0.0000	1,651.030 2

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-4-2022	7-3-2022	1.9716	1.9716
2	7-4-2022	10-3-2022	3.3900	3.3900
3	10-4-2022	1-3-2023	0.9967	0.9967
4	1-4-2023	4-3-2023	0.6742	0.6742
5	4-4-2023	7-3-2023	0.9505	0.9505

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6	7-4-2023	10-3-2023	1.4768	1.4768
7	10-4-2023	1-3-2024	2.2268	2.2268
8	1-4-2024	4-3-2024	1.8671	1.8671
9	4-4-2024	7-3-2024	2.1999	2.1999
10	7-4-2024	10-3-2024	3.6056	3.6056
11	10-4-2024	1-3-2025	1.7646	1.7646
12	1-4-2025	4-3-2025	1.9012	1.9012
13	4-4-2025	7-3-2025	1.8175	1.8175
14	7-4-2025	10-3-2025	1.2313	1.2313
15	10-4-2025	1-3-2026	2.3854	2.3854
16	1-4-2026	4-3-2026	0.9399	0.9399
17	4-4-2026	7-3-2026	1.6747	1.6747
18	7-4-2026	10-3-2026	1.6674	1.6674
19	10-4-2026	1-3-2027	2.3467	2.3467
20	1-4-2027	4-3-2027	2.9400	2.9400
21	4-4-2027	7-3-2027	3.0461	3.0461
22	7-4-2027	9-30-2027	0.9872	0.9872
		Highest	3.6056	3.6056

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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	4.3968	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Energy	0.1502	1.3658	1.1473	8.1900e-003		0.1038	0.1038		0.1038	0.1038	0.0000	3,843.1662	3,843.1662	0.1284	0.0508	3,861.5080
Mobile	1.4823	3.4890	12.0438	0.0399	4.6177	0.0310	4.6487	1.2325	0.0290	1.2615	0.0000	3,868.6209	3,868.6209	0.1383	0.0000	3,872.0780
Stationary	1.6137	6.3310	9.6718	0.0457		0.6868	0.6868		0.6868	0.6868	0.0000	7,784.1894	7,784.1894	0.2194	0.0000	7,789.6742
Waste						0.0000	0.0000		0.0000	0.0000	11.5624	0.0000	11.5624	0.6833	0.0000	28.6453
Water						0.0000	0.0000		0.0000	0.0000	124.7173	930.6116	1,055.3290	12.8491	0.3118	1,469.4592
Total	7.6430	11.1861	22.8971	0.0938	4.6177	0.8217	5.4394	1.2325	0.8197	2.0522	136.2797	16,426.6546	16,562.9343	14.0187	0.3625	17,021.4355

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.3968	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Energy	0.1502	1.3658	1.1473	8.1900e-003		0.1038	0.1038		0.1038	0.1038	0.0000	3,843.1662	3,843.1662	0.1284	0.0508	3,861.5080
Mobile	1.4823	3.4890	12.0438	0.0399	4.6177	0.0310	4.6487	1.2325	0.0290	1.2615	0.0000	3,868.6209	3,868.6209	0.1383	0.0000	3,872.0780
Stationary	1.6137	6.3310	9.6718	0.0457		0.6868	0.6868		0.6868	0.6868	0.0000	7,784.1894	7,784.1894	0.2194	0.0000	7,789.6742
Waste						0.0000	0.0000		0.0000	0.0000	11.5624	0.0000	11.5624	0.6833	0.0000	28.6453
Water						0.0000	0.0000		0.0000	0.0000	124.7173	930.6116	1,055.3290	12.8491	0.3118	1,469.4592
Total	7.6430	11.1861	22.8971	0.0938	4.6177	0.8217	5.4394	1.2325	0.8197	2.0522	136.2797	16,426.6546	16,562.9343	14.0187	0.3625	17,021.4355

	ROG	NOx	CO	SO2	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	Phase 1 Utilities	Trenching	4/4/2022	12/19/2022	5	181	
2	Phase 1 Grading	Grading	5/14/2022	10/5/2022	5	100	
3	Phase 1 Building Construction	Building Construction	10/6/2022	12/5/2024	5	550	
4	Phase 1 Paving	Paving	4/28/2023	1/16/2024	5	181	
5	Demo Existing	Demolition	8/31/2023	12/19/2023	5	76	
6	Phase 1 Site Preparation	Site Preparation	12/18/2023	11/4/2024	5	226	
7	Phase 1 Architectural Coating	Architectural Coating	5/15/2024	11/4/2024	5	121	
8	Phase 2 Grading	Grading	7/8/2024	8/16/2024	5	30	
9	Phase 2 Building Construction	Building Construction	8/17/2024	1/12/2026	5	354	
10	Phase 3 Grading	Grading	2/11/2025	5/6/2025	5	61	
11	Phase 3 Building Construction	Building Construction	5/7/2025	7/2/2027	5	548	
12	Phase 2 Architectural Coating	Architectural Coating	10/24/2025	1/12/2026	5	53	
13	Phase 3 Paving	Paving	2/23/2026	12/14/2026	5	212	
14	Phase 4 Grading	Grading	4/9/2026	4/22/2026	5	10	
15	Phase 4 Building Construction	Building Construction	4/23/2026	12/30/2027	5	428	
16	Phase 3 Site Preparation	Site Preparation	9/17/2026	7/2/2027	5	202	
17	Phase 4 Demo	Demolition	2/16/2027	3/22/2027	5	25	
18	Building E Grading	Grading	2/16/2027	3/22/2027	5	25	
19	Phase 3 Architectural Coating	Architectural Coating	3/15/2027	7/2/2027	5	79	
20	Phase 4 Architectural Coating	Architectural Coating	6/26/2027	12/30/2027	5	129	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.01

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Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 381,537; Non-Residential Outdoor: 63,590; Striped Parking Area: 65,352 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1 Utilities	Aerial Lifts	2	8.00	63	0.31
Phase 1 Utilities	Excavators	1	8.00	158	0.38
Phase 1 Utilities	Generator Sets	1	8.00	84	0.74
Phase 1 Grading	Crawler Tractors	2	8.00	212	0.43
Phase 1 Grading	Excavators	2	8.00	158	0.38
Phase 1 Grading	Graders	1	8.00	187	0.41
Phase 1 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1 Grading	Scrapers	2	8.00	367	0.48
Phase 1 Building Construction	Cranes	1	8.00	231	0.29
Phase 1 Building Construction	Forklifts	3	8.00	89	0.20
Phase 1 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1 Building Construction	Welders	1	8.00	46	0.45
Phase 1 Paving	Pavers	2	8.00	130	0.42
Phase 1 Paving	Paving Equipment	2	8.00	132	0.36
Phase 1 Paving	Rollers	2	8.00	80	0.38
Demo Existing	Concrete/Industrial Saws	1	8.00	81	0.73
Demo Existing	Excavators	3	8.00	158	0.38
Demo Existing	Rubber Tired Dozers	3	8.00	247	0.40
Phase 1 Site Preparation	Rubber Tired Dozers	4	8.00	247	0.40
Phase 1 Site Preparation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 2 Grading	Excavators	2	8.00	158	0.38

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Phase 2 Grading	Graders	1	8.00	187	0.41
Phase 2 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 2 Grading	Scrapers	2	8.00	367	0.48
Phase 2 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2 Building Construction	Cranes	1	8.00	231	0.29
Phase 2 Building Construction	Forklifts	3	8.00	89	0.20
Phase 2 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 2 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Grading	Excavators	2	8.00	158	0.38
Phase 3 Grading	Graders	1	8.00	187	0.41
Phase 3 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 3 Grading	Scrapers	2	8.00	367	0.48
Phase 3 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 3 Building Construction	Cranes	1	8.00	231	0.29
Phase 3 Building Construction	Forklifts	3	8.00	89	0.20
Phase 3 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 3 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 3 Building Construction	Welders	1	8.00	46	0.45
Phase 2 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 3 Paving	Pavers	2	8.00	130	0.42
Phase 3 Paving	Paving Equipment	2	8.00	132	0.36
Phase 3 Paving	Rollers	2	8.00	80	0.38
Phase 4 Grading	Excavators	2	8.00	158	0.38
Phase 4 Grading	Graders	1	8.00	187	0.41
Phase 4 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 4 Grading	Scrapers	2	8.00	367	0.48

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Phase 4 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 4 Building Construction	Cranes	1	8.00	231	0.29
Phase 4 Building Construction	Forklifts	3	8.00	89	0.20
Phase 4 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 4 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 4 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Phase 3 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 4 Demo	Concrete/Industrial Saws	1	8.00	81	0.73
Phase 4 Demo	Excavators	3	8.00	158	0.38
Phase 4 Demo	Rubber Tired Dozers	2	8.00	247	0.40
Building E Grading	Excavators	2	8.00	158	0.38
Building E Grading	Graders	1	8.00	187	0.41
Building E Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building E Grading	Scrapers	2	8.00	367	0.48
Building E Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 3 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 4 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
Phase 1 Utilities	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Grading	8	20.00	0.00	18,541.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Building Construction	9	107.00	42.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demo Existing	7	15.00	0.00	1,261.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Architectural Coating	1	21.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Grading	8	20.00	0.00	2,698.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Building Construction	9	118.00	46.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Grading	8	20.00	0.00	14,860.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Building Construction	9	114.00	44.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Architectural Coating	1	24.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Grading	8	20.00	0.00	2,020.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Building Construction	9	79.00	31.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Demo	6	15.00	0.00	315.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building E Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Architectural Coating	1	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Architectural Coating	1	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Phase 1 Utilities - 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	0.0562	0.5418	0.8481	1.4000e-003		0.0236	0.0236		0.0228	0.0228	0.0000	122.1896	122.1896	0.0250	0.0000	122.8149
Total	0.0562	0.5418	0.8481	1.4000e-003		0.0236	0.0236		0.0228	0.0228	0.0000	122.1896	122.1896	0.0250	0.0000	122.8149

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	3.0600e-003	2.1000e-003	0.0216	7.0000e-005	7.4600e-003	5.0000e-005	7.5100e-003	1.9800e-003	5.0000e-005	2.0300e-003	0.0000	6.2760	6.2760	1.7000e-004	0.0000	6.2803
Total	3.0600e-003	2.1000e-003	0.0216	7.0000e-005	7.4600e-003	5.0000e-005	7.5100e-003	1.9800e-003	5.0000e-005	2.0300e-003	0.0000	6.2760	6.2760	1.7000e-004	0.0000	6.2803

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3.2 Phase 1 Utilities - 2022

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	0.0562	0.5418	0.8481	1.4000e-003		0.0236	0.0236		0.0228	0.0228	0.0000	122.1894	122.1894	0.0250	0.0000	122.8148
Total	0.0562	0.5418	0.8481	1.4000e-003		0.0236	0.0236		0.0228	0.0228	0.0000	122.1894	122.1894	0.0250	0.0000	122.8148

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	3.0600e-003	2.1000e-003	0.0216	7.0000e-005	7.4600e-003	5.0000e-005	7.5100e-003	1.9800e-003	5.0000e-005	2.0300e-003	0.0000	6.2760	6.2760	1.7000e-004	0.0000	6.2803
Total	3.0600e-003	2.1000e-003	0.0216	7.0000e-005	7.4600e-003	5.0000e-005	7.5100e-003	1.9800e-003	5.0000e-005	2.0300e-003	0.0000	6.2760	6.2760	1.7000e-004	0.0000	6.2803

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3.3 Phase 1 Grading - 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					
Fugitive Dust					0.3348	0.0000	0.3348	0.1736	0.0000	0.1736	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2204	2.4467	1.5036	3.6800e-003		0.0983	0.0983		0.0904	0.0904	0.0000	323.6294	323.6294	0.1047	0.0000	326.2461
Total	0.2204	2.4467	1.5036	3.6800e-003	0.3348	0.0983	0.4331	0.1736	0.0904	0.2640	0.0000	323.6294	323.6294	0.1047	0.0000	326.2461

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	0.0673	2.2800	0.6106	7.2000e-003	0.1598	6.3900e-003	0.1662	0.0440	6.1100e-003	0.0501	0.0000	717.7029	717.7029	0.0649	0.0000	719.3266
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	3.3900e-003	2.3300e-003	0.0239	8.0000e-005	8.2600e-003	6.0000e-005	8.3200e-003	2.1900e-003	5.0000e-005	2.2500e-003	0.0000	6.9509	6.9509	1.9000e-004	0.0000	6.9556
Total	0.0707	2.2823	0.6345	7.2800e-003	0.1681	6.4500e-003	0.1745	0.0462	6.1600e-003	0.0524	0.0000	724.6538	724.6538	0.0651	0.0000	726.2822

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3.3 Phase 1 Grading - 2022

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					0.3348	0.0000	0.3348	0.1736	0.0000	0.1736	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2204	2.4467	1.5036	3.6800e-003		0.0983	0.0983		0.0904	0.0904	0.0000	323.6290	323.6290	0.1047	0.0000	326.2457
Total	0.2204	2.4467	1.5036	3.6800e-003	0.3348	0.0983	0.4331	0.1736	0.0904	0.2640	0.0000	323.6290	323.6290	0.1047	0.0000	326.2457

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	0.0673	2.2800	0.6106	7.2000e-003	0.1598	6.3900e-003	0.1662	0.0440	6.1100e-003	0.0501	0.0000	717.7029	717.7029	0.0649	0.0000	719.3266
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	3.3900e-003	2.3300e-003	0.0239	8.0000e-005	8.2600e-003	6.0000e-005	8.3200e-003	2.1900e-003	5.0000e-005	2.2500e-003	0.0000	6.9509	6.9509	1.9000e-004	0.0000	6.9556
Total	0.0707	2.2823	0.6345	7.2800e-003	0.1681	6.4500e-003	0.1745	0.0462	6.1600e-003	0.0524	0.0000	724.6538	724.6538	0.0651	0.0000	726.2822

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3.4 Phase 1 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	0.0563	0.5198	0.5406	8.9000e-004		0.0268	0.0268		0.0252	0.0252	0.0000	76.9762	76.9762	0.0189	0.0000	77.4480
Total	0.0563	0.5198	0.5406	8.9000e-004		0.0268	0.0268		0.0252	0.0252	0.0000	76.9762	76.9762	0.0189	0.0000	77.4480

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	3.7400e-003	0.1264	0.0338	3.4000e-004	8.6400e-003	2.4000e-004	8.8900e-003	2.5000e-003	2.3000e-004	2.7300e-003	0.0000	33.7171	33.7171	2.4500e-003	0.0000	33.7783
Worker	0.0109	7.5000e-003	0.0769	2.5000e-004	0.0266	1.8000e-004	0.0268	7.0700e-003	1.7000e-004	7.2400e-003	0.0000	22.3845	22.3845	6.1000e-004	0.0000	22.3998
Total	0.0147	0.1339	0.1107	5.9000e-004	0.0352	4.2000e-004	0.0357	9.5700e-003	4.0000e-004	9.9700e-003	0.0000	56.1017	56.1017	3.0600e-003	0.0000	56.1781

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3.4 Phase 1 Building Construction - 2022

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	0.0563	0.5198	0.5406	8.9000e-004		0.0268	0.0268		0.0252	0.0252	0.0000	76.9761	76.9761	0.0189	0.0000	77.4479
Total	0.0563	0.5198	0.5406	8.9000e-004		0.0268	0.0268		0.0252	0.0252	0.0000	76.9761	76.9761	0.0189	0.0000	77.4479

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	3.7400e-003	0.1264	0.0338	3.4000e-004	8.6400e-003	2.4000e-004	8.8900e-003	2.5000e-003	2.3000e-004	2.7300e-003	0.0000	33.7171	33.7171	2.4500e-003	0.0000	33.7783
Worker	0.0109	7.5000e-003	0.0769	2.5000e-004	0.0266	1.8000e-004	0.0268	7.0700e-003	1.7000e-004	7.2400e-003	0.0000	22.3845	22.3845	6.1000e-004	0.0000	22.3998
Total	0.0147	0.1339	0.1107	5.9000e-004	0.0352	4.2000e-004	0.0357	9.5700e-003	4.0000e-004	9.9700e-003	0.0000	56.1017	56.1017	3.0600e-003	0.0000	56.1781

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3.4 Phase 1 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

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	0.0121	0.4163	0.1290	1.4100e-003	0.0362	5.0000e-004	0.0367	0.0105	4.8000e-004	0.0109	0.0000	137.8350	137.8350	9.3700e-003	0.0000	138.0693
Worker	0.0434	0.0287	0.2992	1.0000e-003	0.1116	7.6000e-004	0.1123	0.0296	7.0000e-004	0.0303	0.0000	90.2850	90.2850	2.3400e-003	0.0000	90.3435
Total	0.0555	0.4450	0.4282	2.4100e-003	0.1478	1.2600e-003	0.1490	0.0401	1.1800e-003	0.0413	0.0000	228.1200	228.1200	0.0117	0.0000	228.4128

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3.4 Phase 1 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2176	2.0069	2.2503	3.7500e-003		0.0973	0.0973		0.0914	0.0914	0.0000	322.9211	322.9211	0.0787	0.0000	324.8876
Total	0.2176	2.0069	2.2503	3.7500e-003		0.0973	0.0973		0.0914	0.0914	0.0000	322.9211	322.9211	0.0787	0.0000	324.8876

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	0.0121	0.4163	0.1290	1.4100e-003	0.0362	5.0000e-004	0.0367	0.0105	4.8000e-004	0.0109	0.0000	137.8350	137.8350	9.3700e-003	0.0000	138.0693
Worker	0.0434	0.0287	0.2992	1.0000e-003	0.1116	7.6000e-004	0.1123	0.0296	7.0000e-004	0.0303	0.0000	90.2850	90.2850	2.3400e-003	0.0000	90.3435
Total	0.0555	0.4450	0.4282	2.4100e-003	0.1478	1.2600e-003	0.1490	0.0401	1.1800e-003	0.0413	0.0000	228.1200	228.1200	0.0117	0.0000	228.4128

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3.4 Phase 1 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	0.1912	1.7598	2.1017	3.5200e-003		0.0801	0.0801		0.0752	0.0752	0.0000	303.1112	303.1112	0.0734	0.0000	304.9472
Total	0.1912	1.7598	2.1017	3.5200e-003		0.0801	0.0801		0.0752	0.0752	0.0000	303.1112	303.1112	0.0734	0.0000	304.9472

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	0.0110	0.3852	0.1172	1.3100e-003	0.0340	4.6000e-004	0.0345	9.8200e-003	4.4000e-004	0.0103	0.0000	128.5307	128.5307	8.6900e-003	0.0000	128.7479
Worker	0.0387	0.0247	0.2622	9.0000e-004	0.1047	7.0000e-004	0.1054	0.0278	6.4000e-004	0.0285	0.0000	81.3933	81.3933	2.0200e-003	0.0000	81.4438
Total	0.0497	0.4099	0.3795	2.2100e-003	0.1387	1.1600e-003	0.1399	0.0376	1.0800e-003	0.0387	0.0000	209.9240	209.9240	0.0107	0.0000	210.1916

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3.4 Phase 1 Building Construction - 2024

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	0.1912	1.7598	2.1017	3.5200e-003		0.0801	0.0801		0.0752	0.0752	0.0000	303.1108	303.1108	0.0734	0.0000	304.9468
Total	0.1912	1.7598	2.1017	3.5200e-003		0.0801	0.0801		0.0752	0.0752	0.0000	303.1108	303.1108	0.0734	0.0000	304.9468

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	0.0110	0.3852	0.1172	1.3100e-003	0.0340	4.6000e-004	0.0345	9.8200e-003	4.4000e-004	0.0103	0.0000	128.5307	128.5307	8.6900e-003	0.0000	128.7479
Worker	0.0387	0.0247	0.2622	9.0000e-004	0.1047	7.0000e-004	0.1054	0.0278	6.4000e-004	0.0285	0.0000	81.3933	81.3933	2.0200e-003	0.0000	81.4438
Total	0.0497	0.4099	0.3795	2.2100e-003	0.1387	1.1600e-003	0.1399	0.0376	1.0800e-003	0.0387	0.0000	209.9240	209.9240	0.0107	0.0000	210.1916

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3.5 Phase 1 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	0.0909	0.8969	1.2834	2.0100e-003		0.0449	0.0449		0.0413	0.0413	0.0000	176.2364	176.2364	0.0570	0.0000	177.6614
Paving	1.2900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0922	0.8969	1.2834	2.0100e-003		0.0449	0.0449		0.0413	0.0413	0.0000	176.2364	176.2364	0.0570	0.0000	177.6614

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1200e-003	2.7300e-003	0.0284	9.0000e-005	0.0106	7.0000e-005	0.0107	2.8100e-003	7.0000e-005	2.8800e-003	0.0000	8.5677	8.5677	2.2000e-004	0.0000	8.5732
Total	4.1200e-003	2.7300e-003	0.0284	9.0000e-005	0.0106	7.0000e-005	0.0107	2.8100e-003	7.0000e-005	2.8800e-003	0.0000	8.5677	8.5677	2.2000e-004	0.0000	8.5732

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3.5 Phase 1 Paving - 2023

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	0.0909	0.8969	1.2834	2.0100e-003		0.0449	0.0449		0.0413	0.0413	0.0000	176.2362	176.2362	0.0570	0.0000	177.6612
Paving	1.2900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0922	0.8969	1.2834	2.0100e-003		0.0449	0.0449		0.0413	0.0413	0.0000	176.2362	176.2362	0.0570	0.0000	177.6612

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1200e-003	2.7300e-003	0.0284	9.0000e-005	0.0106	7.0000e-005	0.0107	2.8100e-003	7.0000e-005	2.8800e-003	0.0000	8.5677	8.5677	2.2000e-004	0.0000	8.5732
Total	4.1200e-003	2.7300e-003	0.0284	9.0000e-005	0.0106	7.0000e-005	0.0107	2.8100e-003	7.0000e-005	2.8800e-003	0.0000	8.5677	8.5677	2.2000e-004	0.0000	8.5732

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3.5 Phase 1 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	5.9300e-003	0.0572	0.0878	1.4000e-004		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	12.0159	12.0159	3.8900e-003	0.0000	12.1131
Paving	9.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.0200e-003	0.0572	0.0878	1.4000e-004		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	12.0159	12.0159	3.8900e-003	0.0000	12.1131

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	2.7000e-004	1.7000e-004	1.8100e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5612	0.5612	1.0000e-005	0.0000	0.5615
Total	2.7000e-004	1.7000e-004	1.8100e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5612	0.5612	1.0000e-005	0.0000	0.5615

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3.5 Phase 1 Paving - 2024

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	5.9300e-003	0.0572	0.0878	1.4000e-004		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	12.0159	12.0159	3.8900e-003	0.0000	12.1131
Paving	9.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.0200e-003	0.0572	0.0878	1.4000e-004		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	12.0159	12.0159	3.8900e-003	0.0000	12.1131

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	2.7000e-004	1.7000e-004	1.8100e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5612	0.5612	1.0000e-005	0.0000	0.5615
Total	2.7000e-004	1.7000e-004	1.8100e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5612	0.5612	1.0000e-005	0.0000	0.5615

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3.6 Demo Existing - 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					
Fugitive Dust					0.1436	0.0000	0.1436	0.0218	0.0000	0.0218	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1167	1.1302	0.8986	1.8700e-003		0.0521	0.0521		0.0483	0.0483	0.0000	163.9032	163.9032	0.0472	0.0000	165.0829
Total	0.1167	1.1302	0.8986	1.8700e-003	0.1436	0.0521	0.1957	0.0218	0.0483	0.0701	0.0000	163.9032	163.9032	0.0472	0.0000	165.0829

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	3.3000e-003	0.1075	0.0393	4.8000e-004	0.0109	2.0000e-004	0.0111	3.0000e-003	1.9000e-004	3.1900e-003	0.0000	47.5906	47.5906	4.2600e-003	0.0000	47.6970
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	1.8500e-003	1.2200e-003	0.0128	4.0000e-005	4.7500e-003	3.0000e-005	4.7800e-003	1.2600e-003	3.0000e-005	1.2900e-003	0.0000	3.8457	3.8457	1.0000e-004	0.0000	3.8482
Total	5.1500e-003	0.1087	0.0520	5.2000e-004	0.0156	2.3000e-004	0.0159	4.2600e-003	2.2000e-004	4.4800e-003	0.0000	51.4363	51.4363	4.3600e-003	0.0000	51.5452

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3.6 Demo Existing - 2023

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					0.1436	0.0000	0.1436	0.0218	0.0000	0.0218	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1167	1.1302	0.8986	1.8700e-003		0.0521	0.0521		0.0483	0.0483	0.0000	163.9031	163.9031	0.0472	0.0000	165.0827
Total	0.1167	1.1302	0.8986	1.8700e-003	0.1436	0.0521	0.1957	0.0218	0.0483	0.0701	0.0000	163.9031	163.9031	0.0472	0.0000	165.0827

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	3.3000e-003	0.1075	0.0393	4.8000e-004	0.0109	2.0000e-004	0.0111	3.0000e-003	1.9000e-004	3.1900e-003	0.0000	47.5906	47.5906	4.2600e-003	0.0000	47.6970
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	1.8500e-003	1.2200e-003	0.0128	4.0000e-005	4.7500e-003	3.0000e-005	4.7800e-003	1.2600e-003	3.0000e-005	1.2900e-003	0.0000	3.8457	3.8457	1.0000e-004	0.0000	3.8482
Total	5.1500e-003	0.1087	0.0520	5.2000e-004	0.0156	2.3000e-004	0.0159	4.2600e-003	2.2000e-004	4.4800e-003	0.0000	51.4363	51.4363	4.3600e-003	0.0000	51.5452

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3.7 Phase 1 Site Preparation - 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					
Fugitive Dust					0.1204	0.0000	0.1204	0.0662	0.0000	0.0662	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0160	0.1656	0.0956	2.2000e-004		7.5600e-003	7.5600e-003		6.9500e-003	6.9500e-003	0.0000	19.1086	19.1086	6.1800e-003	0.0000	19.2631
Total	0.0160	0.1656	0.0956	2.2000e-004	0.1204	7.5600e-003	0.1280	0.0662	6.9500e-003	0.0732	0.0000	19.1086	19.1086	6.1800e-003	0.0000	19.2631

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	2.8000e-004	1.9000e-004	1.9400e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5842	0.5842	2.0000e-005	0.0000	0.5845
Total	2.8000e-004	1.9000e-004	1.9400e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5842	0.5842	2.0000e-005	0.0000	0.5845

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3.7 Phase 1 Site Preparation - 2023

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					0.1204	0.0000	0.1204	0.0662	0.0000	0.0662	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0160	0.1656	0.0956	2.2000e-004		7.5600e-003	7.5600e-003		6.9500e-003	6.9500e-003	0.0000	19.1086	19.1086	6.1800e-003	0.0000	19.2631
Total	0.0160	0.1656	0.0956	2.2000e-004	0.1204	7.5600e-003	0.1280	0.0662	6.9500e-003	0.0732	0.0000	19.1086	19.1086	6.1800e-003	0.0000	19.2631

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	2.8000e-004	1.9000e-004	1.9400e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5842	0.5842	2.0000e-005	0.0000	0.5845
Total	2.8000e-004	1.9000e-004	1.9400e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5842	0.5842	2.0000e-005	0.0000	0.5845

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3.7 Phase 1 Site Preparation - 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					
Fugitive Dust					2.6618	0.0000	2.6618	1.4631	0.0000	1.4631	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3549	3.6305	2.1250	4.8100e-003		0.1640	0.1640		0.1509	0.1509	0.0000	422.3501	422.3501	0.1366	0.0000	425.7650
Total	0.3549	3.6305	2.1250	4.8100e-003	2.6618	0.1640	2.8258	1.4631	0.1509	1.6140	0.0000	422.3501	422.3501	0.1366	0.0000	425.7650

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	5.9000e-003	3.7700e-003	0.0400	1.4000e-004	0.0160	1.1000e-004	0.0161	4.2400e-003	1.0000e-004	4.3400e-003	0.0000	12.4017	12.4017	3.1000e-004	0.0000	12.4094
Total	5.9000e-003	3.7700e-003	0.0400	1.4000e-004	0.0160	1.1000e-004	0.0161	4.2400e-003	1.0000e-004	4.3400e-003	0.0000	12.4017	12.4017	3.1000e-004	0.0000	12.4094

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3.7 Phase 1 Site Preparation - 2024

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					2.6618	0.0000	2.6618	1.4631	0.0000	1.4631	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3549	3.6305	2.1250	4.8100e-003		0.1640	0.1640		0.1509	0.1509	0.0000	422.3496	422.3496	0.1366	0.0000	425.7645
Total	0.3549	3.6305	2.1250	4.8100e-003	2.6618	0.1640	2.8258	1.4631	0.1509	1.6140	0.0000	422.3496	422.3496	0.1366	0.0000	425.7645

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	5.9000e-003	3.7700e-003	0.0400	1.4000e-004	0.0160	1.1000e-004	0.0161	4.2400e-003	1.0000e-004	4.3400e-003	0.0000	12.4017	12.4017	3.1000e-004	0.0000	12.4094
Total	5.9000e-003	3.7700e-003	0.0400	1.4000e-004	0.0160	1.1000e-004	0.0161	4.2400e-003	1.0000e-004	4.3400e-003	0.0000	12.4017	12.4017	3.1000e-004	0.0000	12.4094

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3.8 Phase 1 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2124					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.1008	0.1496	2.5000e-004		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	21.1069	21.1069	1.1900e-003	0.0000	21.1366
Total	1.2273	0.1008	0.1496	2.5000e-004		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	21.1069	21.1069	1.1900e-003	0.0000	21.1366

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	3.8600e-003	2.4700e-003	0.0262	9.0000e-005	0.0104	7.0000e-005	0.0105	2.7700e-003	6.0000e-005	2.8400e-003	0.0000	8.1181	8.1181	2.0000e-004	0.0000	8.1232
Total	3.8600e-003	2.4700e-003	0.0262	9.0000e-005	0.0104	7.0000e-005	0.0105	2.7700e-003	6.0000e-005	2.8400e-003	0.0000	8.1181	8.1181	2.0000e-004	0.0000	8.1232

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3.8 Phase 1 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2124					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.1008	0.1496	2.5000e-004		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	21.1069	21.1069	1.1900e-003	0.0000	21.1366
Total	1.2273	0.1008	0.1496	2.5000e-004		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	21.1069	21.1069	1.1900e-003	0.0000	21.1366

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	3.8600e-003	2.4700e-003	0.0262	9.0000e-005	0.0104	7.0000e-005	0.0105	2.7700e-003	6.0000e-005	2.8400e-003	0.0000	8.1181	8.1181	2.0000e-004	0.0000	8.1232
Total	3.8600e-003	2.4700e-003	0.0262	9.0000e-005	0.0104	7.0000e-005	0.0105	2.7700e-003	6.0000e-005	2.8400e-003	0.0000	8.1181	8.1181	2.0000e-004	0.0000	8.1232

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3.9 Phase 2 Grading - 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					
Fugitive Dust					0.1054	0.0000	0.1054	0.0513	0.0000	0.0513	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0483	0.4857	0.4158	9.3000e-004		0.0200	0.0200		0.0184	0.0184	0.0000	81.7793	81.7793	0.0265	0.0000	82.4405
Total	0.0483	0.4857	0.4158	9.3000e-004	0.1054	0.0200	0.1254	0.0513	0.0184	0.0698	0.0000	81.7793	81.7793	0.0265	0.0000	82.4405

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	6.6900e-003	0.2157	0.0815	9.7000e-004	0.0231	4.0000e-004	0.0235	6.3400e-003	3.8000e-004	6.7200e-003	0.0000	97.2763	97.2763	8.8000e-003	0.0000	97.4963
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	8.9000e-004	5.7000e-004	6.0300e-003	2.0000e-005	2.4100e-003	2.0000e-005	2.4200e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8705	1.8705	5.0000e-005	0.0000	1.8717
Total	7.5800e-003	0.2163	0.0876	9.9000e-004	0.0255	4.2000e-004	0.0259	6.9800e-003	3.9000e-004	7.3700e-003	0.0000	99.1468	99.1468	8.8500e-003	0.0000	99.3680

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3.9 Phase 2 Grading - 2024

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					0.1054	0.0000	0.1054	0.0513	0.0000	0.0513	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0483	0.4857	0.4158	9.3000e-004		0.0200	0.0200		0.0184	0.0184	0.0000	81.7792	81.7792	0.0265	0.0000	82.4404
Total	0.0483	0.4857	0.4158	9.3000e-004	0.1054	0.0200	0.1254	0.0513	0.0184	0.0698	0.0000	81.7792	81.7792	0.0265	0.0000	82.4404

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	6.6900e-003	0.2157	0.0815	9.7000e-004	0.0231	4.0000e-004	0.0235	6.3400e-003	3.8000e-004	6.7200e-003	0.0000	97.2763	97.2763	8.8000e-003	0.0000	97.4963
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	8.9000e-004	5.7000e-004	6.0300e-003	2.0000e-005	2.4100e-003	2.0000e-005	2.4200e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8705	1.8705	5.0000e-005	0.0000	1.8717
Total	7.5800e-003	0.2163	0.0876	9.9000e-004	0.0255	4.2000e-004	0.0259	6.9800e-003	3.9000e-004	7.3700e-003	0.0000	99.1468	99.1468	8.8500e-003	0.0000	99.3680

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3.10 Phase 2 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	0.0760	0.6996	0.8355	1.4000e-003		0.0318	0.0318		0.0299	0.0299	0.0000	120.4991	120.4991	0.0292	0.0000	121.2290
Total	0.0760	0.6996	0.8355	1.4000e-003		0.0318	0.0318		0.0299	0.0299	0.0000	120.4991	120.4991	0.0292	0.0000	121.2290

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	4.7700e-003	0.1677	0.0510	5.7000e-004	0.0148	2.0000e-004	0.0150	4.2800e-003	1.9000e-004	4.4600e-003	0.0000	55.9625	55.9625	3.7800e-003	0.0000	56.0571
Worker	0.0170	0.0108	0.1150	3.9000e-004	0.0459	3.1000e-004	0.0462	0.0122	2.8000e-004	0.0125	0.0000	35.6836	35.6836	8.8000e-004	0.0000	35.7057
Total	0.0217	0.1785	0.1660	9.6000e-004	0.0607	5.1000e-004	0.0612	0.0165	4.7000e-004	0.0169	0.0000	91.6462	91.6462	4.6600e-003	0.0000	91.7628

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3.10 Phase 2 Building Construction - 2024

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	0.0760	0.6996	0.8355	1.4000e-003		0.0318	0.0318		0.0299	0.0299	0.0000	120.4990	120.4990	0.0292	0.0000	121.2289
Total	0.0760	0.6996	0.8355	1.4000e-003		0.0318	0.0318		0.0299	0.0299	0.0000	120.4990	120.4990	0.0292	0.0000	121.2289

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	4.7700e-003	0.1677	0.0510	5.7000e-004	0.0148	2.0000e-004	0.0150	4.2800e-003	1.9000e-004	4.4600e-003	0.0000	55.9625	55.9625	3.7800e-003	0.0000	56.0571
Worker	0.0170	0.0108	0.1150	3.9000e-004	0.0459	3.1000e-004	0.0462	0.0122	2.8000e-004	0.0125	0.0000	35.6836	35.6836	8.8000e-004	0.0000	35.7057
Total	0.0217	0.1785	0.1660	9.6000e-004	0.0607	5.1000e-004	0.0612	0.0165	4.7000e-004	0.0169	0.0000	91.6462	91.6462	4.6600e-003	0.0000	91.7628

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3.10 Phase 2 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

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	0.0125	0.4447	0.1346	1.5200e-003	0.0398	5.2000e-004	0.0404	0.0115	5.0000e-004	0.0120	0.0000	149.6636	149.6636	0.0101	0.0000	149.9153
Worker	0.0436	0.0269	0.2887	1.0200e-003	0.1235	8.1000e-004	0.1243	0.0328	7.5000e-004	0.0336	0.0000	92.1332	92.1332	2.2000e-003	0.0000	92.1881
Total	0.0561	0.4715	0.4233	2.5400e-003	0.1633	1.3300e-003	0.1647	0.0443	1.2500e-003	0.0456	0.0000	241.7967	241.7967	0.0123	0.0000	242.1033

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3.10 Phase 2 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3341	324.3341	0.0782	0.0000	326.2881
Total	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3341	324.3341	0.0782	0.0000	326.2881

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	0.0125	0.4447	0.1346	1.5200e-003	0.0398	5.2000e-004	0.0404	0.0115	5.0000e-004	0.0120	0.0000	149.6636	149.6636	0.0101	0.0000	149.9153
Worker	0.0436	0.0269	0.2887	1.0200e-003	0.1235	8.1000e-004	0.1243	0.0328	7.5000e-004	0.0336	0.0000	92.1332	92.1332	2.2000e-003	0.0000	92.1881
Total	0.0561	0.4715	0.4233	2.5400e-003	0.1633	1.3300e-003	0.1647	0.0443	1.2500e-003	0.0456	0.0000	241.7967	241.7967	0.0123	0.0000	242.1033

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3.10 Phase 2 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	5.8200e-003	0.0535	0.0686	1.2000e-004		2.2600e-003	2.2600e-003		2.1200e-003	2.1200e-003	0.0000	9.9413	9.9413	2.4000e-003	0.0000	10.0012
Total	5.8200e-003	0.0535	0.0686	1.2000e-004		2.2600e-003	2.2600e-003		2.1200e-003	2.1200e-003	0.0000	9.9413	9.9413	2.4000e-003	0.0000	10.0012

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	3.7000e-004	0.0134	4.0700e-003	5.0000e-005	1.2200e-003	2.0000e-005	1.2400e-003	3.5000e-004	1.0000e-005	3.7000e-004	0.0000	4.5611	4.5611	3.1000e-004	0.0000	4.5688
Worker	1.2800e-003	7.7000e-004	8.3200e-003	3.0000e-005	3.7900e-003	2.0000e-005	3.8100e-003	1.0100e-003	2.0000e-005	1.0300e-003	0.0000	2.7206	2.7206	6.0000e-005	0.0000	2.7222
Total	1.6500e-003	0.0142	0.0124	8.0000e-005	5.0100e-003	4.0000e-005	5.0500e-003	1.3600e-003	3.0000e-005	1.4000e-003	0.0000	7.2817	7.2817	3.7000e-004	0.0000	7.2909

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3.10 Phase 2 Building Construction - 2026

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	5.8200e-003	0.0535	0.0686	1.2000e-004		2.2600e-003	2.2600e-003		2.1200e-003	2.1200e-003	0.0000	9.9413	9.9413	2.4000e-003	0.0000	10.0012
Total	5.8200e-003	0.0535	0.0686	1.2000e-004		2.2600e-003	2.2600e-003		2.1200e-003	2.1200e-003	0.0000	9.9413	9.9413	2.4000e-003	0.0000	10.0012

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	3.7000e-004	0.0134	4.0700e-003	5.0000e-005	1.2200e-003	2.0000e-005	1.2400e-003	3.5000e-004	1.0000e-005	3.7000e-004	0.0000	4.5611	4.5611	3.1000e-004	0.0000	4.5688
Worker	1.2800e-003	7.7000e-004	8.3200e-003	3.0000e-005	3.7900e-003	2.0000e-005	3.8100e-003	1.0100e-003	2.0000e-005	1.0300e-003	0.0000	2.7206	2.7206	6.0000e-005	0.0000	2.7222
Total	1.6500e-003	0.0142	0.0124	8.0000e-005	5.0100e-003	4.0000e-005	5.0500e-003	1.3600e-003	3.0000e-005	1.4000e-003	0.0000	7.2817	7.2817	3.7000e-004	0.0000	7.2909

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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					0.2056	0.0000	0.2056	0.1037	0.0000	0.1037	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0885	0.8523	0.8031	1.8900e-003		0.0345	0.0345		0.0317	0.0317	0.0000	166.2440	166.2440	0.0538	0.0000	167.5881
Total	0.0885	0.8523	0.8031	1.8900e-003	0.2056	0.0345	0.2400	0.1037	0.0317	0.1354	0.0000	166.2440	166.2440	0.0538	0.0000	167.5881

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	0.0363	1.1574	0.4551	5.2900e-003	0.1271	2.1400e-003	0.1293	0.0349	2.0500e-003	0.0370	0.0000	532.2321	532.2321	0.0487	0.0000	533.4505
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	1.7300e-003	1.0600e-003	0.0114	4.0000e-005	4.8900e-003	3.0000e-005	4.9200e-003	1.3000e-003	3.0000e-005	1.3300e-003	0.0000	3.6497	3.6497	9.0000e-005	0.0000	3.6518
Total	0.0380	1.1584	0.4665	5.3300e-003	0.1320	2.1700e-003	0.1342	0.0362	2.0800e-003	0.0383	0.0000	535.8817	535.8817	0.0488	0.0000	537.1023

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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					0.2056	0.0000	0.2056	0.1037	0.0000	0.1037	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0885	0.8523	0.8031	1.8900e-003		0.0345	0.0345		0.0317	0.0317	0.0000	166.2438	166.2438	0.0538	0.0000	167.5879
Total	0.0885	0.8523	0.8031	1.8900e-003	0.2056	0.0345	0.2400	0.1037	0.0317	0.1354	0.0000	166.2438	166.2438	0.0538	0.0000	167.5879

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	0.0363	1.1574	0.4551	5.2900e-003	0.1271	2.1400e-003	0.1293	0.0349	2.0500e-003	0.0370	0.0000	532.2321	532.2321	0.0487	0.0000	533.4505
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	1.7300e-003	1.0600e-003	0.0114	4.0000e-005	4.8900e-003	3.0000e-005	4.9200e-003	1.3000e-003	3.0000e-005	1.3300e-003	0.0000	3.6497	3.6497	9.0000e-005	0.0000	3.6518
Total	0.0380	1.1584	0.4665	5.3300e-003	0.1320	2.1700e-003	0.1342	0.0362	2.0800e-003	0.0383	0.0000	535.8817	535.8817	0.0488	0.0000	537.1023

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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	0.1245	1.1428	1.4653	2.4700e-003		0.0483	0.0483		0.0454	0.0454	0.0000	212.4950	212.4950	0.0512	0.0000	213.7752
Total	0.1245	1.1428	1.4653	2.4700e-003		0.0483	0.0483		0.0454	0.0454	0.0000	212.4950	212.4950	0.0512	0.0000	213.7752

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8100e-003	0.2787	0.0843	9.5000e-004	0.0250	3.2000e-004	0.0253	7.2100e-003	3.1000e-004	7.5200e-003	0.0000	93.7922	93.7922	6.3100e-003	0.0000	93.9499
Worker	0.0276	0.0170	0.1828	6.4000e-004	0.0782	5.1000e-004	0.0787	0.0208	4.7000e-004	0.0212	0.0000	58.3169	58.3169	1.3900e-003	0.0000	58.3517
Total	0.0354	0.2957	0.2671	1.5900e-003	0.1031	8.3000e-004	0.1040	0.0280	7.8000e-004	0.0288	0.0000	152.1091	152.1091	7.7000e-003	0.0000	152.3016

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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	0.1245	1.1428	1.4653	2.4700e-003		0.0483	0.0483		0.0454	0.0454	0.0000	212.4948	212.4948	0.0512	0.0000	213.7749
Total	0.1245	1.1428	1.4653	2.4700e-003		0.0483	0.0483		0.0454	0.0454	0.0000	212.4948	212.4948	0.0512	0.0000	213.7749

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8100e-003	0.2787	0.0843	9.5000e-004	0.0250	3.2000e-004	0.0253	7.2100e-003	3.1000e-004	7.5200e-003	0.0000	93.7922	93.7922	6.3100e-003	0.0000	93.9499
Worker	0.0276	0.0170	0.1828	6.4000e-004	0.0782	5.1000e-004	0.0787	0.0208	4.7000e-004	0.0212	0.0000	58.3169	58.3169	1.3900e-003	0.0000	58.3517
Total	0.0354	0.2957	0.2671	1.5900e-003	0.1031	8.3000e-004	0.1040	0.0280	7.8000e-004	0.0288	0.0000	152.1091	152.1091	7.7000e-003	0.0000	152.3016

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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

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	0.0116	0.4192	0.1269	1.4500e-003	0.0381	4.8000e-004	0.0386	0.0110	4.6000e-004	0.0115	0.0000	142.3370	142.3370	9.5300e-003	0.0000	142.5753
Worker	0.0404	0.0242	0.2621	9.5000e-004	0.1193	7.6000e-004	0.1201	0.0317	7.0000e-004	0.0324	0.0000	85.7502	85.7502	1.9800e-003	0.0000	85.7996
Total	0.0520	0.4434	0.3890	2.4000e-003	0.1574	1.2400e-003	0.1587	0.0427	1.1600e-003	0.0439	0.0000	228.0872	228.0872	0.0115	0.0000	228.3749

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3.12 Phase 3 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3341	324.3341	0.0782	0.0000	326.2881
Total	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3341	324.3341	0.0782	0.0000	326.2881

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	0.0116	0.4192	0.1269	1.4500e-003	0.0381	4.8000e-004	0.0386	0.0110	4.6000e-004	0.0115	0.0000	142.3370	142.3370	9.5300e-003	0.0000	142.5753
Worker	0.0404	0.0242	0.2621	9.5000e-004	0.1193	7.6000e-004	0.1201	0.0317	7.0000e-004	0.0324	0.0000	85.7502	85.7502	1.9800e-003	0.0000	85.7996
Total	0.0520	0.4434	0.3890	2.4000e-003	0.1574	1.2400e-003	0.1587	0.0427	1.1600e-003	0.0439	0.0000	228.0872	228.0872	0.0115	0.0000	228.3749

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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	0.0954	0.8755	1.1225	1.8900e-003		0.0370	0.0370		0.0347	0.0347	0.0000	162.7886	162.7886	0.0392	0.0000	163.7693
Total	0.0954	0.8755	1.1225	1.8900e-003		0.0370	0.0370		0.0347	0.0347	0.0000	162.7886	162.7886	0.0392	0.0000	163.7693

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	5.7000e-003	0.2075	0.0629	7.2000e-004	0.0191	2.4000e-004	0.0194	5.5200e-003	2.3000e-004	5.7500e-003	0.0000	71.0641	71.0641	4.7400e-003	0.0000	71.1826
Worker	0.0194	0.0113	0.1241	4.6000e-004	0.0599	3.6000e-004	0.0602	0.0159	3.3000e-004	0.0162	0.0000	41.5976	41.5976	9.3000e-004	0.0000	41.6208
Total	0.0251	0.2188	0.1870	1.1800e-003	0.0790	6.0000e-004	0.0796	0.0214	5.6000e-004	0.0220	0.0000	112.6617	112.6617	5.6700e-003	0.0000	112.8034

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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	0.0954	0.8755	1.1225	1.8900e-003		0.0370	0.0370		0.0347	0.0347	0.0000	162.7884	162.7884	0.0392	0.0000	163.7691
Total	0.0954	0.8755	1.1225	1.8900e-003		0.0370	0.0370		0.0347	0.0347	0.0000	162.7884	162.7884	0.0392	0.0000	163.7691

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	5.7000e-003	0.2075	0.0629	7.2000e-004	0.0191	2.4000e-004	0.0194	5.5200e-003	2.3000e-004	5.7500e-003	0.0000	71.0641	71.0641	4.7400e-003	0.0000	71.1826
Worker	0.0194	0.0113	0.1241	4.6000e-004	0.0599	3.6000e-004	0.0602	0.0159	3.3000e-004	0.0162	0.0000	41.5976	41.5976	9.3000e-004	0.0000	41.6208
Total	0.0251	0.2188	0.1870	1.1800e-003	0.0790	6.0000e-004	0.0796	0.0214	5.6000e-004	0.0220	0.0000	112.6617	112.6617	5.6700e-003	0.0000	112.8034

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3.13 Phase 2 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	1.0501					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5800e-003	0.0374	0.0591	1.0000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	8.3406	8.3406	4.5000e-004	0.0000	8.3520
Total	1.0557	0.0374	0.0591	1.0000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	8.3406	8.3406	4.5000e-004	0.0000	8.3520

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	1.6700e-003	1.0300e-003	0.0110	4.0000e-005	4.7200e-003	3.0000e-005	4.7500e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.5180	3.5180	8.0000e-005	0.0000	3.5201
Total	1.6700e-003	1.0300e-003	0.0110	4.0000e-005	4.7200e-003	3.0000e-005	4.7500e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.5180	3.5180	8.0000e-005	0.0000	3.5201

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3.13 Phase 2 Architectural Coating - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0501					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5800e-003	0.0374	0.0591	1.0000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	8.3406	8.3406	4.5000e-004	0.0000	8.3520
Total	1.0557	0.0374	0.0591	1.0000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	8.3406	8.3406	4.5000e-004	0.0000	8.3520

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	1.6700e-003	1.0300e-003	0.0110	4.0000e-005	4.7200e-003	3.0000e-005	4.7500e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.5180	3.5180	8.0000e-005	0.0000	3.5201
Total	1.6700e-003	1.0300e-003	0.0110	4.0000e-005	4.7200e-003	3.0000e-005	4.7500e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.5180	3.5180	8.0000e-005	0.0000	3.5201

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3.13 Phase 2 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	0.1715					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1000e-004	6.1100e-003	9.6500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	1.3617	1.3617	7.0000e-005	0.0000	1.3636
Total	0.1724	6.1100e-003	9.6500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	1.3617	1.3617	7.0000e-005	0.0000	1.3636

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	2.6000e-004	1.6000e-004	1.6900e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.5533	0.5533	1.0000e-005	0.0000	0.5537
Total	2.6000e-004	1.6000e-004	1.6900e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.5533	0.5533	1.0000e-005	0.0000	0.5537

TCV-Full Operation - San Diego County APCD Air District, Annual

3.13 Phase 2 Architectural Coating - 2026

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	0.1715					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1000e-004	6.1100e-003	9.6500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	1.3617	1.3617	7.0000e-005	0.0000	1.3636
Total	0.1724	6.1100e-003	9.6500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	1.3617	1.3617	7.0000e-005	0.0000	1.3636

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	2.6000e-004	1.6000e-004	1.6900e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.5533	0.5533	1.0000e-005	0.0000	0.5537
Total	2.6000e-004	1.6000e-004	1.6900e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.5533	0.5533	1.0000e-005	0.0000	0.5537

TCV-Full Operation - San Diego County APCD Air District, Annual

3.14 Phase 3 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	0.0966	0.9054	1.5380	2.4100e-003		0.0442	0.0442		0.0406	0.0406	0.0000	211.2031	211.2031	0.0683	0.0000	212.9108
Paving	1.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0979	0.9054	1.5380	2.4100e-003		0.0442	0.0442		0.0406	0.0406	0.0000	211.2031	211.2031	0.0683	0.0000	212.9108

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-003	2.5700e-003	0.0279	1.0000e-004	0.0127	8.0000e-005	0.0128	3.3700e-003	7.0000e-005	3.4500e-003	0.0000	9.1215	9.1215	2.1000e-004	0.0000	9.1267
Total	4.3000e-003	2.5700e-003	0.0279	1.0000e-004	0.0127	8.0000e-005	0.0128	3.3700e-003	7.0000e-005	3.4500e-003	0.0000	9.1215	9.1215	2.1000e-004	0.0000	9.1267

TCV-Full Operation - San Diego County APCD Air District, Annual

3.14 Phase 3 Paving - 2026

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	0.0966	0.9054	1.5380	2.4100e-003		0.0442	0.0442		0.0406	0.0406	0.0000	211.2029	211.2029	0.0683	0.0000	212.9106
Paving	1.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0979	0.9054	1.5380	2.4100e-003		0.0442	0.0442		0.0406	0.0406	0.0000	211.2029	211.2029	0.0683	0.0000	212.9106

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-003	2.5700e-003	0.0279	1.0000e-004	0.0127	8.0000e-005	0.0128	3.3700e-003	7.0000e-005	3.4500e-003	0.0000	9.1215	9.1215	2.1000e-004	0.0000	9.1267
Total	4.3000e-003	2.5700e-003	0.0279	1.0000e-004	0.0127	8.0000e-005	0.0128	3.3700e-003	7.0000e-005	3.4500e-003	0.0000	9.1215	9.1215	2.1000e-004	0.0000	9.1267

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3.15 Phase 4 Grading - 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					
Fugitive Dust					0.0448	0.0000	0.0448	0.0182	0.0000	0.0182	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0145	0.1397	0.1317	3.1000e-004		5.6500e-003	5.6500e-003		5.2000e-003	5.2000e-003	0.0000	27.2531	27.2531	8.8100e-003	0.0000	27.4735
Total	0.0145	0.1397	0.1317	3.1000e-004	0.0448	5.6500e-003	0.0504	0.0182	5.2000e-003	0.0234	0.0000	27.2531	27.2531	8.8100e-003	0.0000	27.4735

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	4.8700e-003	0.1534	0.0626	7.1000e-004	0.0173	2.8000e-004	0.0176	4.7500e-003	2.7000e-004	5.0200e-003	0.0000	71.9065	71.9065	6.6500e-003	0.0000	72.0727
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	2.7000e-004	1.6000e-004	1.7600e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.1000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.5764	0.5764	1.0000e-005	0.0000	0.5767
Total	5.1400e-003	0.1536	0.0644	7.2000e-004	0.0181	2.9000e-004	0.0184	4.9600e-003	2.7000e-004	5.2400e-003	0.0000	72.4829	72.4829	6.6600e-003	0.0000	72.6494

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3.15 Phase 4 Grading - 2026

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					0.0448	0.0000	0.0448	0.0182	0.0000	0.0182	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0145	0.1397	0.1317	3.1000e-004		5.6500e-003	5.6500e-003		5.2000e-003	5.2000e-003	0.0000	27.2531	27.2531	8.8100e-003	0.0000	27.4734
Total	0.0145	0.1397	0.1317	3.1000e-004	0.0448	5.6500e-003	0.0504	0.0182	5.2000e-003	0.0234	0.0000	27.2531	27.2531	8.8100e-003	0.0000	27.4734

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	4.8700e-003	0.1534	0.0626	7.1000e-004	0.0173	2.8000e-004	0.0176	4.7500e-003	2.7000e-004	5.0200e-003	0.0000	71.9065	71.9065	6.6500e-003	0.0000	72.0727
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	2.7000e-004	1.6000e-004	1.7600e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.1000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.5764	0.5764	1.0000e-005	0.0000	0.5767
Total	5.1400e-003	0.1536	0.0644	7.2000e-004	0.0181	2.9000e-004	0.0184	4.9600e-003	2.7000e-004	5.2400e-003	0.0000	72.4829	72.4829	6.6600e-003	0.0000	72.6494

TCV-Full Operation - San Diego County APCD Air District, Annual

3.16 Phase 4 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	0.1318	1.2097	1.5510	2.6100e-003		0.0511	0.0511		0.0480	0.0480	0.0000	224.9216	224.9216	0.0542	0.0000	226.2767
Total	0.1318	1.2097	1.5510	2.6100e-003		0.0511	0.0511		0.0480	0.0480	0.0000	224.9216	224.9216	0.0542	0.0000	226.2767

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	5.6800e-003	0.2048	0.0620	7.1000e-004	0.0186	2.3000e-004	0.0189	5.3800e-003	2.2000e-004	5.6000e-003	0.0000	69.5448	69.5448	4.6600e-003	0.0000	69.6612
Worker	0.0194	0.0116	0.1260	4.6000e-004	0.0573	3.6000e-004	0.0577	0.0152	3.4000e-004	0.0156	0.0000	41.2093	41.2093	9.5000e-004	0.0000	41.2331
Total	0.0251	0.2164	0.1880	1.1700e-003	0.0760	5.9000e-004	0.0766	0.0206	5.6000e-004	0.0212	0.0000	110.7542	110.7542	5.6100e-003	0.0000	110.8943

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3.16 Phase 4 Building Construction - 2026

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	0.1318	1.2097	1.5510	2.6100e-003		0.0511	0.0511		0.0480	0.0480	0.0000	224.9214	224.9214	0.0542	0.0000	226.2764
Total	0.1318	1.2097	1.5510	2.6100e-003		0.0511	0.0511		0.0480	0.0480	0.0000	224.9214	224.9214	0.0542	0.0000	226.2764

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	5.6800e-003	0.2048	0.0620	7.1000e-004	0.0186	2.3000e-004	0.0189	5.3800e-003	2.2000e-004	5.6000e-003	0.0000	69.5448	69.5448	4.6600e-003	0.0000	69.6612
Worker	0.0194	0.0116	0.1260	4.6000e-004	0.0573	3.6000e-004	0.0577	0.0152	3.4000e-004	0.0156	0.0000	41.2093	41.2093	9.5000e-004	0.0000	41.2331
Total	0.0251	0.2164	0.1880	1.1700e-003	0.0760	5.9000e-004	0.0766	0.0206	5.6000e-004	0.0212	0.0000	110.7542	110.7542	5.6100e-003	0.0000	110.8943

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3.16 Phase 4 Building Construction - 2027

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	0.1893	1.7376	2.2279	3.7500e-003		0.0734	0.0734		0.0690	0.0690	0.0000	323.0919	323.0919	0.0779	0.0000	325.0383
Total	0.1893	1.7376	2.2279	3.7500e-003		0.0734	0.0734		0.0690	0.0690	0.0000	323.0919	323.0919	0.0779	0.0000	325.0383

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.9700e-003	0.2901	0.0880	1.0100e-003	0.0268	3.3000e-004	0.0271	7.7200e-003	3.1000e-004	8.0400e-003	0.0000	99.3714	99.3714	6.6300e-003	0.0000	99.5371
Worker	0.0267	0.0156	0.1707	6.3000e-004	0.0824	5.0000e-004	0.0829	0.0219	4.6000e-004	0.0223	0.0000	57.2127	57.2127	1.2800e-003	0.0000	57.2447
Total	0.0347	0.3057	0.2586	1.6400e-003	0.1091	8.3000e-004	0.1099	0.0296	7.7000e-004	0.0304	0.0000	156.5841	156.5841	7.9100e-003	0.0000	156.7817

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3.16 Phase 4 Building Construction - 2027

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	0.1893	1.7376	2.2279	3.7500e-003		0.0734	0.0734		0.0690	0.0690	0.0000	323.0915	323.0915	0.0779	0.0000	325.0379
Total	0.1893	1.7376	2.2279	3.7500e-003		0.0734	0.0734		0.0690	0.0690	0.0000	323.0915	323.0915	0.0779	0.0000	325.0379

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.9700e-003	0.2901	0.0880	1.0100e-003	0.0268	3.3000e-004	0.0271	7.7200e-003	3.1000e-004	8.0400e-003	0.0000	99.3714	99.3714	6.6300e-003	0.0000	99.5371
Worker	0.0267	0.0156	0.1707	6.3000e-004	0.0824	5.0000e-004	0.0829	0.0219	4.6000e-004	0.0223	0.0000	57.2127	57.2127	1.2800e-003	0.0000	57.2447
Total	0.0347	0.3057	0.2586	1.6400e-003	0.1091	8.3000e-004	0.1099	0.0296	7.7000e-004	0.0304	0.0000	156.5841	156.5841	7.9100e-003	0.0000	156.7817

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3.17 Phase 3 Site Preparation - 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					
Fugitive Dust					0.6865	0.0000	0.6865	0.3774	0.0000	0.3774	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0940	0.9589	0.6807	1.4500e-003		0.0413	0.0413		0.0380	0.0380	0.0000	127.1746	127.1746	0.0411	0.0000	128.2028
Total	0.0940	0.9589	0.6807	1.4500e-003	0.6865	0.0413	0.7278	0.3774	0.0380	0.4154	0.0000	127.1746	127.1746	0.0411	0.0000	128.2028

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	1.8600e-003	1.1100e-003	0.0121	4.0000e-005	5.4900e-003	3.0000e-005	5.5200e-003	1.4600e-003	3.0000e-005	1.4900e-003	0.0000	3.9425	3.9425	9.0000e-005	0.0000	3.9448
Total	1.8600e-003	1.1100e-003	0.0121	4.0000e-005	5.4900e-003	3.0000e-005	5.5200e-003	1.4600e-003	3.0000e-005	1.4900e-003	0.0000	3.9425	3.9425	9.0000e-005	0.0000	3.9448

TCV-Full Operation - San Diego County APCD Air District, Annual

3.17 Phase 3 Site Preparation - 2026

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					0.6865	0.0000	0.6865	0.3774	0.0000	0.3774	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0940	0.9589	0.6807	1.4500e-003		0.0413	0.0413		0.0380	0.0380	0.0000	127.1744	127.1744	0.0411	0.0000	128.2027
Total	0.0940	0.9589	0.6807	1.4500e-003	0.6865	0.0413	0.7278	0.3774	0.0380	0.4154	0.0000	127.1744	127.1744	0.0411	0.0000	128.2027

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	1.8600e-003	1.1100e-003	0.0121	4.0000e-005	5.4900e-003	3.0000e-005	5.5200e-003	1.4600e-003	3.0000e-005	1.4900e-003	0.0000	3.9425	3.9425	9.0000e-005	0.0000	3.9448
Total	1.8600e-003	1.1100e-003	0.0121	4.0000e-005	5.4900e-003	3.0000e-005	5.5200e-003	1.4600e-003	3.0000e-005	1.4900e-003	0.0000	3.9425	3.9425	9.0000e-005	0.0000	3.9448

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3.17 Phase 3 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1833	0.0000	1.1833	0.6505	0.0000	0.6505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1620	1.6528	1.1732	2.4900e-003		0.0712	0.0712		0.0655	0.0655	0.0000	219.2088	219.2088	0.0709	0.0000	220.9812
Total	0.1620	1.6528	1.1732	2.4900e-003	1.1833	0.0712	1.2545	0.6505	0.0655	0.7160	0.0000	219.2088	219.2088	0.0709	0.0000	220.9812

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	3.0600e-003	1.7900e-003	0.0196	7.0000e-005	9.4500e-003	6.0000e-005	9.5100e-003	2.5100e-003	5.0000e-005	2.5600e-003	0.0000	6.5680	6.5680	1.5000e-004	0.0000	6.5717
Total	3.0600e-003	1.7900e-003	0.0196	7.0000e-005	9.4500e-003	6.0000e-005	9.5100e-003	2.5100e-003	5.0000e-005	2.5600e-003	0.0000	6.5680	6.5680	1.5000e-004	0.0000	6.5717

TCV-Full Operation - San Diego County APCD Air District, Annual

3.17 Phase 3 Site Preparation - 2027

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					1.1833	0.0000	1.1833	0.6505	0.0000	0.6505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1620	1.6528	1.1732	2.4900e-003		0.0712	0.0712		0.0655	0.0655	0.0000	219.2085	219.2085	0.0709	0.0000	220.9809
Total	0.1620	1.6528	1.1732	2.4900e-003	1.1833	0.0712	1.2545	0.6505	0.0655	0.7160	0.0000	219.2085	219.2085	0.0709	0.0000	220.9809

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	3.0600e-003	1.7900e-003	0.0196	7.0000e-005	9.4500e-003	6.0000e-005	9.5100e-003	2.5100e-003	5.0000e-005	2.5600e-003	0.0000	6.5680	6.5680	1.5000e-004	0.0000	6.5717
Total	3.0600e-003	1.7900e-003	0.0196	7.0000e-005	9.4500e-003	6.0000e-005	9.5100e-003	2.5100e-003	5.0000e-005	2.5600e-003	0.0000	6.5680	6.5680	1.5000e-004	0.0000	6.5717

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3.18 Phase 4 Demo - 2027

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					0.0345	0.0000	0.0345	5.2300e-003	0.0000	5.2300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0262	0.2400	0.2427	4.9000e-004		0.0107	0.0107		9.9000e-003	9.9000e-003	0.0000	42.4971	42.4971	0.0119	0.0000	42.7937
Total	0.0262	0.2400	0.2427	4.9000e-004	0.0345	0.0107	0.0452	5.2300e-003	9.9000e-003	0.0151	0.0000	42.4971	42.4971	0.0119	0.0000	42.7937

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	7.5000e-004	0.0234	9.8600e-003	1.1000e-004	2.6900e-003	4.0000e-005	2.7400e-003	7.4000e-004	4.0000e-005	7.8000e-004	0.0000	11.1493	11.1493	1.0400e-003	0.0000	11.1753
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	4.9000e-004	2.8000e-004	3.1200e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.0445	1.0445	2.0000e-005	0.0000	1.0451
Total	1.2400e-003	0.0236	0.0130	1.2000e-004	4.1900e-003	5.0000e-005	4.2500e-003	1.1400e-003	5.0000e-005	1.1900e-003	0.0000	12.1939	12.1939	1.0600e-003	0.0000	12.2204

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3.18 Phase 4 Demo - 2027

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					0.0345	0.0000	0.0345	5.2300e-003	0.0000	5.2300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0262	0.2400	0.2427	4.9000e-004		0.0107	0.0107		9.9000e-003	9.9000e-003	0.0000	42.4970	42.4970	0.0119	0.0000	42.7937
Total	0.0262	0.2400	0.2427	4.9000e-004	0.0345	0.0107	0.0452	5.2300e-003	9.9000e-003	0.0151	0.0000	42.4970	42.4970	0.0119	0.0000	42.7937

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	7.5000e-004	0.0234	9.8600e-003	1.1000e-004	2.6900e-003	4.0000e-005	2.7400e-003	7.4000e-004	4.0000e-005	7.8000e-004	0.0000	11.1493	11.1493	1.0400e-003	0.0000	11.1753
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	4.9000e-004	2.8000e-004	3.1200e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.0445	1.0445	2.0000e-005	0.0000	1.0451
Total	1.2400e-003	0.0236	0.0130	1.2000e-004	4.1900e-003	5.0000e-005	4.2500e-003	1.1400e-003	5.0000e-005	1.1900e-003	0.0000	12.1939	12.1939	1.0600e-003	0.0000	12.2204

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3.19 Building E Grading - 2027

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					0.0888	0.0000	0.0888	0.0428	0.0000	0.0428	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0363	0.3493	0.3291	7.8000e-004		0.0141	0.0141		0.0130	0.0130	0.0000	68.1328	68.1328	0.0220	0.0000	68.6837
Total	0.0363	0.3493	0.3291	7.8000e-004	0.0888	0.0141	0.1029	0.0428	0.0130	0.0559	0.0000	68.1328	68.1328	0.0220	0.0000	68.6837

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	6.5000e-004	3.8000e-004	4.1500e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.3927	1.3927	3.0000e-005	0.0000	1.3935
Total	6.5000e-004	3.8000e-004	4.1500e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.3927	1.3927	3.0000e-005	0.0000	1.3935

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3.19 Building E Grading - 2027

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					0.0888	0.0000	0.0888	0.0428	0.0000	0.0428	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0363	0.3493	0.3291	7.8000e-004		0.0141	0.0141		0.0130	0.0130	0.0000	68.1327	68.1327	0.0220	0.0000	68.6836
Total	0.0363	0.3493	0.3291	7.8000e-004	0.0888	0.0141	0.1029	0.0428	0.0130	0.0559	0.0000	68.1327	68.1327	0.0220	0.0000	68.6836

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	6.5000e-004	3.8000e-004	4.1500e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.3927	1.3927	3.0000e-005	0.0000	1.3935
Total	6.5000e-004	3.8000e-004	4.1500e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.3927	1.3927	3.0000e-005	0.0000	1.3935

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3.20 Phase 3 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1127					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1100e-003	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6174	13.6174	7.4000e-004	0.0000	13.6359
Total	1.1218	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6174	13.6174	7.4000e-004	0.0000	13.6359

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	2.3900e-003	1.3900e-003	0.0153	6.0000e-005	7.3800e-003	4.0000e-005	7.4200e-003	1.9600e-003	4.0000e-005	2.0000e-003	0.0000	5.1252	5.1252	1.1000e-004	0.0000	5.1281
Total	2.3900e-003	1.3900e-003	0.0153	6.0000e-005	7.3800e-003	4.0000e-005	7.4200e-003	1.9600e-003	4.0000e-005	2.0000e-003	0.0000	5.1252	5.1252	1.1000e-004	0.0000	5.1281

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3.20 Phase 3 Architectural Coating - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1127					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1100e-003	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6173	13.6173	7.4000e-004	0.0000	13.6359
Total	1.1218	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6173	13.6173	7.4000e-004	0.0000	13.6359

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	2.3900e-003	1.3900e-003	0.0153	6.0000e-005	7.3800e-003	4.0000e-005	7.4200e-003	1.9600e-003	4.0000e-005	2.0000e-003	0.0000	5.1252	5.1252	1.1000e-004	0.0000	5.1281
Total	2.3900e-003	1.3900e-003	0.0153	6.0000e-005	7.3800e-003	4.0000e-005	7.4200e-003	1.9600e-003	4.0000e-005	2.0000e-003	0.0000	5.1252	5.1252	1.1000e-004	0.0000	5.1281

TCV-Full Operation - San Diego County APCD Air District, Annual

3.21 Phase 4 Architectural Coating - 2027

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	0.7925					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.1023	0.1616	2.7000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003	0.0000	22.8091	22.8091	1.2400e-003	0.0000	22.8402
Total	0.8077	0.1023	0.1616	2.7000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003	0.0000	22.8091	22.8091	1.2400e-003	0.0000	22.8402

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	2.7900e-003	1.6200e-003	0.0178	7.0000e-005	8.6000e-003	5.0000e-005	8.6500e-003	2.2800e-003	5.0000e-005	2.3300e-003	0.0000	5.9720	5.9720	1.3000e-004	0.0000	5.9753
Total	2.7900e-003	1.6200e-003	0.0178	7.0000e-005	8.6000e-003	5.0000e-005	8.6500e-003	2.2800e-003	5.0000e-005	2.3300e-003	0.0000	5.9720	5.9720	1.3000e-004	0.0000	5.9753

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3.21 Phase 4 Architectural Coating - 2027

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	0.7925					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.1023	0.1616	2.7000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003	0.0000	22.8090	22.8090	1.2400e-003	0.0000	22.8401
Total	0.8077	0.1023	0.1616	2.7000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003	0.0000	22.8090	22.8090	1.2400e-003	0.0000	22.8401

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	2.7900e-003	1.6200e-003	0.0178	7.0000e-005	8.6000e-003	5.0000e-005	8.6500e-003	2.2800e-003	5.0000e-005	2.3300e-003	0.0000	5.9720	5.9720	1.3000e-004	0.0000	5.9753
Total	2.7900e-003	1.6200e-003	0.0178	7.0000e-005	8.6000e-003	5.0000e-005	8.6500e-003	2.2800e-003	5.0000e-005	2.3300e-003	0.0000	5.9720	5.9720	1.3000e-004	0.0000	5.9753

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.4823	3.4890	12.0438	0.0399	4.6177	0.0310	4.6487	1.2325	0.0290	1.2615	0.0000	3,868.6209	3,868.6209	0.1383	0.0000	3,872.0780
Unmitigated	1.4823	3.4890	12.0438	0.0399	4.6177	0.0310	4.6487	1.2325	0.0290	1.2615	0.0000	3,868.6209	3,868.6209	0.1383	0.0000	3,872.0780

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Research & Development	6,406.09	1,499.09	879.46	12,319,637	12,319,637
Total	6,406.09	1,499.09	879.46	12,319,637	12,319,637

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
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.612510	0.039108	0.179582	0.101865	0.013899	0.005385	0.017049	0.024763	0.000000	0.000000	0.005839	0.000000	0.000000
Parking Lot	0.612510	0.039108	0.179582	0.101865	0.013899	0.005385	0.017049	0.024763	0.000000	0.000000	0.005839	0.000000	0.000000
Research & Development	0.612510	0.039108	0.179582	0.101865	0.013899	0.005385	0.017049	0.024763	0.000000	0.000000	0.005839	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,356.2967	2,356.2967	0.0999	0.0235	2,365.8028
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,356.2967	2,356.2967	0.0999	0.0235	2,365.8028
NaturalGas Mitigated	0.1502	1.3658	1.1473	8.1900e-003		0.1038	0.1038		0.1038	0.1038	0.0000	1,486.8695	1,486.8695	0.0285	0.0273	1,495.7052
NaturalGas Unmitigated	0.1502	1.3658	1.1473	8.1900e-003		0.1038	0.1038		0.1038	0.1038	0.0000	1,486.8695	1,486.8695	0.0285	0.0273	1,495.7052

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	2.78629e+007	0.1502	1.3658	1.1473	8.1900e-003		0.1038	0.1038		0.1038	0.1038	0.0000	1,486.8695	1,486.8695	0.0285	0.0273	1,495.7052
Total		0.1502	1.3658	1.1473	8.1900e-003		0.1038	0.1038		0.1038	0.1038	0.0000	1,486.8695	1,486.8695	0.0285	0.0273	1,495.7052

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	2.78629e+007	0.1502	1.3658	1.1473	8.1900e-003		0.1038	0.1038		0.1038	0.1038	0.0000	1,486.8695	1,486.8695	0.0285	0.0273	1,495.7052
Total		0.1502	1.3658	1.1473	8.1900e-003		0.1038	0.1038		0.1038	0.1038	0.0000	1,486.8695	1,486.8695	0.0285	0.0273	1,495.7052

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	4.3447e+006	789.8861	0.0335	7.8800e-003	793.0728
Parking Lot	11200	2.0362	9.0000e-005	2.0000e-005	2.0444
Research & Development	8.60471e+006	1,564.3744	0.0664	0.0156	1,570.6856
Total		2,356.2967	0.0999	0.0235	2,365.8028

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	4.3447e+006	789.8861	0.0335	7.8800e-003	793.0728
Parking Lot	11200	2.0362	9.0000e-005	2.0000e-005	2.0444
Research & Development	8.60471e+006	1,564.3744	0.0664	0.0156	1,570.6856
Total		2,356.2967	0.0999	0.0235	2,365.8028

6.0 Area Detail

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6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.3968	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Unmitigated	4.3968	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4201					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9735					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1400e-003	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Total	4.3968	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4201					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9735					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1400e-003	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Total	4.3968	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,055.329 0	12.8491	0.3118	1,469.459 2
Unmitigated	1,055.329 0	12.8491	0.3118	1,469.459 2

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	393.115 / 0	1,055.329 0	12.8491	0.3118	1,469.459 2
Total		1,055.329 0	12.8491	0.3118	1,469.459 2

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	393.115 / 0	1,055.329 0	12.8491	0.3118	1,469.459 2
Total		1,055.329 0	12.8491	0.3118	1,469.459 2

8.0 Waste Detail

8.1 Mitigation Measures Waste

TCV-Full Operation - San Diego County APCD Air District, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	11.5624	0.6833	0.0000	28.6453
Unmitigated	11.5624	0.6833	0.0000	28.6453

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Research & Development	56.96	11.5624	0.6833	0.0000	28.6453
Total		11.5624	0.6833	0.0000	28.6453

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Research & Development	56.96	11.5624	0.6833	0.0000	28.6453
Total		11.5624	0.6833	0.0000	28.6453

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	4	0.5	100	2346	0.73	Diesel
Emergency Generator	2	0.5	100	2923	0.73	Diesel

Boilers

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Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	2	150	27000	15	CNG
Boiler	3	150	27000	16	CNG

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					
Boiler - CNG (5 - 75 MMBTU)	0.3640	0.7425	6.4854	0.0397		0.5030	0.5030		0.5030	0.5030	0.0000	7,204.2353	7,204.2353	0.1381	0.0000	7,207.6873
Emergency Generator - Diesel (750 - 9999 HP)	1.2497	5.5885	3.1864	6.0100e-003		0.1838	0.1838		0.1838	0.1838	0.0000	579.9541	579.9541	0.0813	0.0000	581.9869
Total	1.6137	6.3310	9.6718	0.0457		0.6868	0.6868		0.6868	0.6868	0.0000	7,784.1894	7,784.1894	0.2194	0.0000	7,789.6742

11.0 Vegetation

APPENDIX 4.2

EXISTING USES CALEEMOD EMISSIONS MODEL OUTPUTS

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Towne Centre Existing - San Diego County APCD Air District, Annual

Towne Centre Existing
San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	192.37	1000sqft	4.42	192,365.00	0
Enclosed Parking with Elevator	420.00	Space	3.78	168,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	10			Operational Year	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	400.81	CH4 Intensity (lb/MW hr)	0.017	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Towne Centre Existing - San Diego County APCD Air District, Annual

Project Characteristics - RPS 2028

Land Use -

Construction Phase - No Construction

Off-road Equipment - No Construction

Trips and VMT - No Construction

On-road Fugitive Dust - No Construction

Architectural Coating - No Construction

Vehicle Trips - Based on Project trip gen

Area Coating - rule 67.0.1

Energy Use -

Solid Waste - same as project

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	100,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	300,000.00	0.00
tblArchitecturalCoating	ConstArea_Parking	13,008.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Parking	250	100
tblConstructionPhase	NumDays	20.00	0.00
tblFleetMix	HHD	0.02	0.02
tblFleetMix	HHD	0.02	0.02
tblFleetMix	LDA	0.60	0.61
tblFleetMix	LDA	0.60	0.61
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.18

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tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD2	5.4350e-003	5.3850e-003
tblFleetMix	LHD2	5.4350e-003	5.3850e-003
tblFleetMix	MCY	5.9380e-003	5.8390e-003
tblFleetMix	MCY	5.9380e-003	5.8390e-003
tblFleetMix	MDV	0.10	0.10
tblFleetMix	MDV	0.10	0.10
tblFleetMix	MH	1.0560e-003	0.00
tblFleetMix	MH	1.0560e-003	0.00
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	1.9340e-003	0.00
tblFleetMix	OBUS	1.9340e-003	0.00
tblFleetMix	SBUS	7.5700e-004	0.00
tblFleetMix	SBUS	7.5700e-004	0.00
tblFleetMix	UBUS	1.8880e-003	0.00
tblFleetMix	UBUS	1.8880e-003	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.017
tblProjectCharacteristics	CO2IntensityFactor	720.49	400.81
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblSolidWaste	SolidWasteGenerationRate	15.20	11.40
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00

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tblTripsAndVMT	WorkerTripNumber	31.00	0.00
tblVehicleEF	HHD	0.59	0.03
tblVehicleEF	HHD	0.13	0.09
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.74	6.61
tblVehicleEF	HHD	1.10	0.54
tblVehicleEF	HHD	3.37	8.0490e-003
tblVehicleEF	HHD	4,504.81	1,014.58
tblVehicleEF	HHD	1,581.68	1,293.14
tblVehicleEF	HHD	10.55	0.07
tblVehicleEF	HHD	15.07	5.53
tblVehicleEF	HHD	1.98	2.47
tblVehicleEF	HHD	19.53	19.38
tblVehicleEF	HHD	0.01	2.5260e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.2470e-003	0.02
tblVehicleEF	HHD	1.0100e-004	1.0000e-006
tblVehicleEF	HHD	0.01	2.4170e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8120e-003	8.8720e-003
tblVehicleEF	HHD	5.9770e-003	0.02
tblVehicleEF	HHD	9.3000e-005	1.0000e-006
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	4.6540e-003	1.0800e-004
tblVehicleEF	HHD	0.43	0.44
tblVehicleEF	HHD	8.2000e-005	2.0000e-006

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tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	4.1600e-004	5.1600e-004
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.04	9.3450e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.6100e-004	1.0000e-006
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	4.6540e-003	1.0800e-004
tblVehicleEF	HHD	0.51	0.51
tblVehicleEF	HHD	8.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.22	0.11
tblVehicleEF	HHD	4.1600e-004	5.1600e-004
tblVehicleEF	HHD	0.09	3.0000e-006
tblVehicleEF	HHD	0.56	0.03
tblVehicleEF	HHD	0.13	0.09
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.27	6.52
tblVehicleEF	HHD	1.10	0.54
tblVehicleEF	HHD	3.17	7.5650e-003
tblVehicleEF	HHD	4,772.44	1,002.69
tblVehicleEF	HHD	1,581.68	1,293.14
tblVehicleEF	HHD	10.55	0.07
tblVehicleEF	HHD	15.55	5.28
tblVehicleEF	HHD	1.91	2.38
tblVehicleEF	HHD	19.51	19.37
tblVehicleEF	HHD	0.01	2.2170e-003
tblVehicleEF	HHD	0.06	0.06

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tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.2470e-003	0.02
tblVehicleEF	HHD	1.0100e-004	1.0000e-006
tblVehicleEF	HHD	9.6380e-003	2.1210e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8120e-003	8.8720e-003
tblVehicleEF	HHD	5.9770e-003	0.02
tblVehicleEF	HHD	9.3000e-005	1.0000e-006
tblVehicleEF	HHD	1.3000e-004	3.0000e-006
tblVehicleEF	HHD	4.8050e-003	1.1100e-004
tblVehicleEF	HHD	0.40	0.47
tblVehicleEF	HHD	1.4300e-004	3.0000e-006
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	4.0200e-004	4.9700e-004
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.04	9.2350e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.5800e-004	1.0000e-006
tblVehicleEF	HHD	1.3000e-004	3.0000e-006
tblVehicleEF	HHD	4.8050e-003	1.1100e-004
tblVehicleEF	HHD	0.49	0.54
tblVehicleEF	HHD	1.4300e-004	3.0000e-006
tblVehicleEF	HHD	0.22	0.11
tblVehicleEF	HHD	4.0200e-004	4.9700e-004
tblVehicleEF	HHD	0.09	3.0000e-006
tblVehicleEF	HHD	0.64	0.02
tblVehicleEF	HHD	0.13	1.1170e-003

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tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.40	6.57
tblVehicleEF	HHD	1.09	0.25
tblVehicleEF	HHD	3.46	8.2630e-003
tblVehicleEF	HHD	4,135.22	1,005.27
tblVehicleEF	HHD	1,581.68	1,220.71
tblVehicleEF	HHD	10.55	0.08
tblVehicleEF	HHD	14.40	5.74
tblVehicleEF	HHD	1.98	2.44
tblVehicleEF	HHD	19.53	19.39
tblVehicleEF	HHD	0.01	2.7790e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	6.2470e-003	0.02
tblVehicleEF	HHD	1.0100e-004	1.0000e-006
tblVehicleEF	HHD	0.01	2.6590e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8120e-003	8.6390e-003
tblVehicleEF	HHD	5.9770e-003	0.02
tblVehicleEF	HHD	9.3000e-005	1.0000e-006
tblVehicleEF	HHD	7.5000e-005	2.0000e-006
tblVehicleEF	HHD	5.0550e-003	1.1700e-004
tblVehicleEF	HHD	0.46	0.40
tblVehicleEF	HHD	7.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	4.6000e-004	5.7200e-004
tblVehicleEF	HHD	0.09	3.0000e-006

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tblVehicleEF	HHD	0.04	9.4970e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.6200e-004	1.0000e-006
tblVehicleEF	HHD	7.5000e-005	2.0000e-006
tblVehicleEF	HHD	5.0550e-003	1.1700e-004
tblVehicleEF	HHD	0.56	0.46
tblVehicleEF	HHD	7.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.22	0.03
tblVehicleEF	HHD	4.6000e-004	5.7200e-004
tblVehicleEF	HHD	0.09	3.0000e-006
tblVehicleEF	LDA	6.1170e-003	1.2050e-003
tblVehicleEF	LDA	7.4160e-003	0.03
tblVehicleEF	LDA	0.58	0.42
tblVehicleEF	LDA	1.39	1.73
tblVehicleEF	LDA	248.05	228.87
tblVehicleEF	LDA	54.17	46.63
tblVehicleEF	LDA	0.06	0.02
tblVehicleEF	LDA	0.07	0.05
tblVehicleEF	LDA	1.8380e-003	1.1630e-003
tblVehicleEF	LDA	2.2710e-003	1.4530e-003
tblVehicleEF	LDA	1.6940e-003	1.0700e-003
tblVehicleEF	LDA	2.0880e-003	1.3360e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.02	4.1190e-003
tblVehicleEF	LDA	0.03	0.17

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tblVehicleEF	LDA	0.10	0.13
tblVehicleEF	LDA	2.4840e-003	2.1460e-003
tblVehicleEF	LDA	5.6600e-004	4.3700e-004
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.02	5.9960e-003
tblVehicleEF	LDA	0.03	0.18
tblVehicleEF	LDA	0.11	0.15
tblVehicleEF	LDA	6.5890e-003	1.3140e-003
tblVehicleEF	LDA	6.4700e-003	0.03
tblVehicleEF	LDA	0.65	0.47
tblVehicleEF	LDA	1.15	1.43
tblVehicleEF	LDA	262.13	241.53
tblVehicleEF	LDA	54.17	46.08
tblVehicleEF	LDA	0.06	0.02
tblVehicleEF	LDA	0.07	0.05
tblVehicleEF	LDA	1.8380e-003	1.1630e-003
tblVehicleEF	LDA	2.2710e-003	1.4530e-003
tblVehicleEF	LDA	1.6940e-003	1.0700e-003
tblVehicleEF	LDA	2.0880e-003	1.3360e-003
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.02	4.4320e-003
tblVehicleEF	LDA	0.03	0.16
tblVehicleEF	LDA	0.09	0.12

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tblVehicleEF	LDA	2.6260e-003	2.2650e-003
tblVehicleEF	LDA	5.6200e-004	4.3200e-004
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.02	6.4530e-003
tblVehicleEF	LDA	0.03	0.16
tblVehicleEF	LDA	0.10	0.13
tblVehicleEF	LDA	6.0150e-003	1.1790e-003
tblVehicleEF	LDA	7.8030e-003	0.03
tblVehicleEF	LDA	0.56	0.41
tblVehicleEF	LDA	1.49	1.86
tblVehicleEF	LDA	245.50	226.58
tblVehicleEF	LDA	54.17	46.86
tblVehicleEF	LDA	0.06	0.02
tblVehicleEF	LDA	0.08	0.05
tblVehicleEF	LDA	1.8380e-003	1.1630e-003
tblVehicleEF	LDA	2.2710e-003	1.4530e-003
tblVehicleEF	LDA	1.6940e-003	1.0700e-003
tblVehicleEF	LDA	2.0880e-003	1.3360e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.09	0.07
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	4.0510e-003
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.11	0.14
tblVehicleEF	LDA	2.4590e-003	2.1250e-003

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tblVehicleEF	LDA	5.6800e-004	4.3900e-004
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.09	0.07
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	5.8950e-003
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.12	0.15
tblVehicleEF	LDT1	0.01	3.1400e-003
tblVehicleEF	LDT1	0.01	0.05
tblVehicleEF	LDT1	1.15	0.72
tblVehicleEF	LDT1	2.76	1.94
tblVehicleEF	LDT1	318.80	283.24
tblVehicleEF	LDT1	69.57	58.55
tblVehicleEF	LDT1	0.12	0.06
tblVehicleEF	LDT1	0.16	0.10
tblVehicleEF	LDT1	2.6340e-003	1.4830e-003
tblVehicleEF	LDT1	3.2330e-003	1.8340e-003
tblVehicleEF	LDT1	2.4260e-003	1.3640e-003
tblVehicleEF	LDT1	2.9730e-003	1.6860e-003
tblVehicleEF	LDT1	0.10	0.07
tblVehicleEF	LDT1	0.27	0.15
tblVehicleEF	LDT1	0.11	0.09
tblVehicleEF	LDT1	0.03	0.01
tblVehicleEF	LDT1	0.19	0.55
tblVehicleEF	LDT1	0.19	0.23
tblVehicleEF	LDT1	3.2010e-003	2.6560e-003
tblVehicleEF	LDT1	7.4400e-004	5.4900e-004

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tblVehicleEF	LDT1	0.10	0.07
tblVehicleEF	LDT1	0.27	0.15
tblVehicleEF	LDT1	0.11	0.09
tblVehicleEF	LDT1	0.04	0.02
tblVehicleEF	LDT1	0.19	0.55
tblVehicleEF	LDT1	0.21	0.25
tblVehicleEF	LDT1	0.01	3.3950e-003
tblVehicleEF	LDT1	0.01	0.04
tblVehicleEF	LDT1	1.28	0.81
tblVehicleEF	LDT1	2.27	1.60
tblVehicleEF	LDT1	336.12	296.67
tblVehicleEF	LDT1	69.57	57.89
tblVehicleEF	LDT1	0.11	0.05
tblVehicleEF	LDT1	0.15	0.09
tblVehicleEF	LDT1	2.6340e-003	1.4830e-003
tblVehicleEF	LDT1	3.2330e-003	1.8340e-003
tblVehicleEF	LDT1	2.4260e-003	1.3640e-003
tblVehicleEF	LDT1	2.9730e-003	1.6860e-003
tblVehicleEF	LDT1	0.16	0.11
tblVehicleEF	LDT1	0.29	0.16
tblVehicleEF	LDT1	0.18	0.14
tblVehicleEF	LDT1	0.03	0.01
tblVehicleEF	LDT1	0.17	0.50
tblVehicleEF	LDT1	0.16	0.20
tblVehicleEF	LDT1	3.3760e-003	2.7820e-003
tblVehicleEF	LDT1	7.3600e-004	5.4300e-004
tblVehicleEF	LDT1	0.16	0.11

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tblVehicleEF	LDT1	0.29	0.16
tblVehicleEF	LDT1	0.18	0.14
tblVehicleEF	LDT1	0.04	0.02
tblVehicleEF	LDT1	0.17	0.50
tblVehicleEF	LDT1	0.18	0.22
tblVehicleEF	LDT1	0.01	3.0790e-003
tblVehicleEF	LDT1	0.01	0.05
tblVehicleEF	LDT1	1.13	0.71
tblVehicleEF	LDT1	2.97	2.08
tblVehicleEF	LDT1	315.67	280.81
tblVehicleEF	LDT1	69.57	58.82
tblVehicleEF	LDT1	0.12	0.06
tblVehicleEF	LDT1	0.17	0.10
tblVehicleEF	LDT1	2.6340e-003	1.4830e-003
tblVehicleEF	LDT1	3.2330e-003	1.8340e-003
tblVehicleEF	LDT1	2.4260e-003	1.3640e-003
tblVehicleEF	LDT1	2.9730e-003	1.6860e-003
tblVehicleEF	LDT1	0.09	0.06
tblVehicleEF	LDT1	0.31	0.17
tblVehicleEF	LDT1	0.09	0.07
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.23	0.67
tblVehicleEF	LDT1	0.20	0.24
tblVehicleEF	LDT1	3.1700e-003	2.6330e-003
tblVehicleEF	LDT1	7.4800e-004	5.5200e-004
tblVehicleEF	LDT1	0.09	0.06
tblVehicleEF	LDT1	0.31	0.17

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tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.04	0.02
tblVehicleEF	LDT1	0.23	0.67
tblVehicleEF	LDT1	0.22	0.26
tblVehicleEF	LDT2	5.2450e-003	2.2610e-003
tblVehicleEF	LDT2	5.9320e-003	0.05
tblVehicleEF	LDT2	0.65	0.59
tblVehicleEF	LDT2	1.31	2.28
tblVehicleEF	LDT2	352.67	290.11
tblVehicleEF	LDT2	76.85	60.09
tblVehicleEF	LDT2	0.07	0.04
tblVehicleEF	LDT2	0.10	0.06
tblVehicleEF	LDT2	1.8240e-003	1.2510e-003
tblVehicleEF	LDT2	2.2870e-003	1.4850e-003
tblVehicleEF	LDT2	1.6780e-003	1.1520e-003
tblVehicleEF	LDT2	2.1030e-003	1.3650e-003
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.10	0.10
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	8.6460e-003
tblVehicleEF	LDT2	0.06	0.37
tblVehicleEF	LDT2	0.08	0.21
tblVehicleEF	LDT2	3.5310e-003	2.7200e-003
tblVehicleEF	LDT2	7.9000e-004	5.6300e-004
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.10	0.10
tblVehicleEF	LDT2	0.05	0.07

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tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.06	0.37
tblVehicleEF	LDT2	0.09	0.23
tblVehicleEF	LDT2	5.6410e-003	2.4540e-003
tblVehicleEF	LDT2	5.1630e-003	0.04
tblVehicleEF	LDT2	0.72	0.66
tblVehicleEF	LDT2	1.09	1.88
tblVehicleEF	LDT2	372.26	302.56
tblVehicleEF	LDT2	76.85	59.34
tblVehicleEF	LDT2	0.06	0.04
tblVehicleEF	LDT2	0.09	0.05
tblVehicleEF	LDT2	1.8240e-003	1.2510e-003
tblVehicleEF	LDT2	2.2870e-003	1.4850e-003
tblVehicleEF	LDT2	1.6780e-003	1.1520e-003
tblVehicleEF	LDT2	2.1030e-003	1.3650e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.08	0.11
tblVehicleEF	LDT2	0.01	9.2810e-003
tblVehicleEF	LDT2	0.06	0.34
tblVehicleEF	LDT2	0.07	0.18
tblVehicleEF	LDT2	3.7270e-003	2.8370e-003
tblVehicleEF	LDT2	7.8600e-004	5.5600e-004
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.08	0.11
tblVehicleEF	LDT2	0.02	0.01

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tblVehicleEF	LDT2	0.06	0.34
tblVehicleEF	LDT2	0.08	0.20
tblVehicleEF	LDT2	5.1590e-003	2.2140e-003
tblVehicleEF	LDT2	6.2490e-003	0.05
tblVehicleEF	LDT2	0.63	0.58
tblVehicleEF	LDT2	1.41	2.45
tblVehicleEF	LDT2	349.13	287.86
tblVehicleEF	LDT2	76.85	60.40
tblVehicleEF	LDT2	0.07	0.04
tblVehicleEF	LDT2	0.10	0.06
tblVehicleEF	LDT2	1.8240e-003	1.2510e-003
tblVehicleEF	LDT2	2.2870e-003	1.4850e-003
tblVehicleEF	LDT2	1.6780e-003	1.1520e-003
tblVehicleEF	LDT2	2.1030e-003	1.3650e-003
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	8.5060e-003
tblVehicleEF	LDT2	0.08	0.45
tblVehicleEF	LDT2	0.08	0.22
tblVehicleEF	LDT2	3.4950e-003	2.6990e-003
tblVehicleEF	LDT2	7.9200e-004	5.6600e-004
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.08	0.45

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tblVehicleEF	LDT2	0.09	0.24
tblVehicleEF	LHD1	4.6610e-003	4.0280e-003
tblVehicleEF	LHD1	0.02	6.3290e-003
tblVehicleEF	LHD1	0.02	9.5670e-003
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.04	0.59
tblVehicleEF	LHD1	2.19	0.84
tblVehicleEF	LHD1	9.27	8.71
tblVehicleEF	LHD1	672.14	704.27
tblVehicleEF	LHD1	27.83	9.45
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	1.48	0.58
tblVehicleEF	LHD1	0.85	0.64
tblVehicleEF	LHD1	1.0210e-003	1.0230e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	9.9110e-003
tblVehicleEF	LHD1	8.2300e-004	2.0100e-004
tblVehicleEF	LHD1	9.7700e-004	9.7800e-004
tblVehicleEF	LHD1	2.5850e-003	2.5160e-003
tblVehicleEF	LHD1	0.02	9.4420e-003
tblVehicleEF	LHD1	7.5600e-004	1.8500e-004
tblVehicleEF	LHD1	2.1470e-003	1.3880e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6470e-003	1.1220e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.29	0.42

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tblVehicleEF	LHD1	0.22	0.05
tblVehicleEF	LHD1	9.2000e-005	8.4000e-005
tblVehicleEF	LHD1	6.5770e-003	6.8550e-003
tblVehicleEF	LHD1	3.1900e-004	9.4000e-005
tblVehicleEF	LHD1	2.1470e-003	1.3880e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6470e-003	1.1220e-003
tblVehicleEF	LHD1	0.16	0.10
tblVehicleEF	LHD1	0.29	0.42
tblVehicleEF	LHD1	0.24	0.05
tblVehicleEF	LHD1	4.6610e-003	4.0360e-003
tblVehicleEF	LHD1	0.02	6.4000e-003
tblVehicleEF	LHD1	0.02	9.1700e-003
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.06	0.60
tblVehicleEF	LHD1	2.07	0.80
tblVehicleEF	LHD1	9.27	8.71
tblVehicleEF	LHD1	672.14	704.28
tblVehicleEF	LHD1	27.83	9.37
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	1.42	0.56
tblVehicleEF	LHD1	0.81	0.61
tblVehicleEF	LHD1	1.0210e-003	1.0230e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	9.9110e-003
tblVehicleEF	LHD1	8.2300e-004	2.0100e-004

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tblVehicleEF	LHD1	9.7700e-004	9.7800e-004
tblVehicleEF	LHD1	2.5850e-003	2.5160e-003
tblVehicleEF	LHD1	0.02	9.4420e-003
tblVehicleEF	LHD1	7.5600e-004	1.8500e-004
tblVehicleEF	LHD1	3.0940e-003	2.0050e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.7550e-003	1.8660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.28	0.41
tblVehicleEF	LHD1	0.21	0.05
tblVehicleEF	LHD1	9.2000e-005	8.4000e-005
tblVehicleEF	LHD1	6.5770e-003	6.8550e-003
tblVehicleEF	LHD1	3.1700e-004	9.3000e-005
tblVehicleEF	LHD1	3.0940e-003	2.0050e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.7550e-003	1.8660e-003
tblVehicleEF	LHD1	0.16	0.10
tblVehicleEF	LHD1	0.28	0.41
tblVehicleEF	LHD1	0.23	0.05
tblVehicleEF	LHD1	4.6610e-003	4.0240e-003
tblVehicleEF	LHD1	0.02	6.2980e-003
tblVehicleEF	LHD1	0.02	9.7450e-003
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.04	0.59
tblVehicleEF	LHD1	2.25	0.86

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tblVehicleEF	LHD1	9.27	8.71
tblVehicleEF	LHD1	672.14	704.26
tblVehicleEF	LHD1	27.83	9.48
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	1.48	0.58
tblVehicleEF	LHD1	0.87	0.65
tblVehicleEF	LHD1	1.0210e-003	1.0230e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	9.9110e-003
tblVehicleEF	LHD1	8.2300e-004	2.0100e-004
tblVehicleEF	LHD1	9.7700e-004	9.7800e-004
tblVehicleEF	LHD1	2.5850e-003	2.5160e-003
tblVehicleEF	LHD1	0.02	9.4420e-003
tblVehicleEF	LHD1	7.5600e-004	1.8500e-004
tblVehicleEF	LHD1	1.9780e-003	1.2540e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.4560e-003	9.9100e-004
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.32	0.47
tblVehicleEF	LHD1	0.22	0.05
tblVehicleEF	LHD1	9.2000e-005	8.4000e-005
tblVehicleEF	LHD1	6.5770e-003	6.8550e-003
tblVehicleEF	LHD1	3.2000e-004	9.4000e-005
tblVehicleEF	LHD1	1.9780e-003	1.2540e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02

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tblVehicleEF	LHD1	1.4560e-003	9.9100e-004
tblVehicleEF	LHD1	0.16	0.10
tblVehicleEF	LHD1	0.32	0.47
tblVehicleEF	LHD1	0.24	0.05
tblVehicleEF	LHD2	3.3670e-003	2.7130e-003
tblVehicleEF	LHD2	7.3190e-003	5.6970e-003
tblVehicleEF	LHD2	6.3840e-003	5.6550e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.53
tblVehicleEF	LHD2	1.07	0.49
tblVehicleEF	LHD2	14.07	13.49
tblVehicleEF	LHD2	706.25	705.79
tblVehicleEF	LHD2	23.94	6.73
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.80	0.58
tblVehicleEF	LHD2	0.44	0.30
tblVehicleEF	LHD2	1.2450e-003	1.4730e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.0500e-004
tblVehicleEF	LHD2	1.1910e-003	1.4090e-003
tblVehicleEF	LHD2	2.6920e-003	2.7070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	9.7000e-005
tblVehicleEF	LHD2	6.9100e-004	6.6900e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01

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tblVehicleEF	LHD2	5.8700e-004	5.9000e-004
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.06	0.16
tblVehicleEF	LHD2	0.09	0.03
tblVehicleEF	LHD2	1.3700e-004	1.2900e-004
tblVehicleEF	LHD2	6.8680e-003	6.8090e-003
tblVehicleEF	LHD2	2.5900e-004	6.7000e-005
tblVehicleEF	LHD2	6.9100e-004	6.6900e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.8700e-004	5.9000e-004
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.06	0.16
tblVehicleEF	LHD2	0.09	0.03
tblVehicleEF	LHD2	3.3670e-003	2.7180e-003
tblVehicleEF	LHD2	7.3940e-003	5.7270e-003
tblVehicleEF	LHD2	6.1320e-003	5.4230e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.53
tblVehicleEF	LHD2	1.02	0.46
tblVehicleEF	LHD2	14.07	13.49
tblVehicleEF	LHD2	706.25	705.79
tblVehicleEF	LHD2	23.94	6.69
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.77	0.56
tblVehicleEF	LHD2	0.42	0.29
tblVehicleEF	LHD2	1.2450e-003	1.4730e-003

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tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.0500e-004
tblVehicleEF	LHD2	1.1910e-003	1.4090e-003
tblVehicleEF	LHD2	2.6920e-003	2.7070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	9.7000e-005
tblVehicleEF	LHD2	1.0020e-003	9.6900e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.8700e-004	9.8100e-004
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.06	0.16
tblVehicleEF	LHD2	0.08	0.03
tblVehicleEF	LHD2	1.3700e-004	1.2900e-004
tblVehicleEF	LHD2	6.8680e-003	6.8090e-003
tblVehicleEF	LHD2	2.5800e-004	6.6000e-005
tblVehicleEF	LHD2	1.0020e-003	9.6900e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	9.8700e-004	9.8100e-004
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.06	0.16
tblVehicleEF	LHD2	0.09	0.03
tblVehicleEF	LHD2	3.3670e-003	2.7100e-003
tblVehicleEF	LHD2	7.2860e-003	5.6830e-003
tblVehicleEF	LHD2	6.4980e-003	5.7600e-003

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tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.55	0.53
tblVehicleEF	LHD2	1.10	0.50
tblVehicleEF	LHD2	14.07	13.49
tblVehicleEF	LHD2	706.25	705.79
tblVehicleEF	LHD2	23.94	6.75
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.79	0.58
tblVehicleEF	LHD2	0.45	0.31
tblVehicleEF	LHD2	1.2450e-003	1.4730e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.0500e-004
tblVehicleEF	LHD2	1.1910e-003	1.4090e-003
tblVehicleEF	LHD2	2.6920e-003	2.7070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	9.7000e-005
tblVehicleEF	LHD2	6.1400e-004	5.8500e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.1700e-004	5.1800e-004
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.07	0.18
tblVehicleEF	LHD2	0.09	0.03
tblVehicleEF	LHD2	1.3700e-004	1.2900e-004
tblVehicleEF	LHD2	6.8680e-003	6.8090e-003
tblVehicleEF	LHD2	2.5900e-004	6.7000e-005

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tblVehicleEF	LHD2	6.1400e-004	5.8500e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.1700e-004	5.1800e-004
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.07	0.18
tblVehicleEF	LHD2	0.10	0.03
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	20.15	19.20
tblVehicleEF	MCY	9.73	8.73
tblVehicleEF	MCY	182.50	220.08
tblVehicleEF	MCY	45.45	59.15
tblVehicleEF	MCY	1.16	1.15
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	2.1640e-003	2.2640e-003
tblVehicleEF	MCY	3.6600e-003	2.8110e-003
tblVehicleEF	MCY	2.0230e-003	2.1130e-003
tblVehicleEF	MCY	3.4480e-003	2.6350e-003
tblVehicleEF	MCY	0.93	0.95
tblVehicleEF	MCY	0.74	0.72
tblVehicleEF	MCY	0.73	0.73
tblVehicleEF	MCY	2.41	2.36
tblVehicleEF	MCY	0.59	1.64
tblVehicleEF	MCY	2.10	1.82
tblVehicleEF	MCY	2.2260e-003	2.1780e-003
tblVehicleEF	MCY	6.7500e-004	5.8500e-004

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tblVehicleEF	MCY	0.93	0.95
tblVehicleEF	MCY	0.74	0.72
tblVehicleEF	MCY	0.73	0.73
tblVehicleEF	MCY	2.99	2.95
tblVehicleEF	MCY	0.59	1.64
tblVehicleEF	MCY	2.29	1.98
tblVehicleEF	MCY	0.47	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.19	18.34
tblVehicleEF	MCY	8.77	7.79
tblVehicleEF	MCY	182.50	218.49
tblVehicleEF	MCY	45.45	56.88
tblVehicleEF	MCY	1.04	1.03
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	2.1640e-003	2.2640e-003
tblVehicleEF	MCY	3.6600e-003	2.8110e-003
tblVehicleEF	MCY	2.0230e-003	2.1130e-003
tblVehicleEF	MCY	3.4480e-003	2.6350e-003
tblVehicleEF	MCY	1.50	1.52
tblVehicleEF	MCY	0.83	0.82
tblVehicleEF	MCY	1.42	1.40
tblVehicleEF	MCY	2.34	2.30
tblVehicleEF	MCY	0.55	1.51
tblVehicleEF	MCY	1.83	1.58
tblVehicleEF	MCY	2.2080e-003	2.1620e-003
tblVehicleEF	MCY	6.5100e-004	5.6300e-004
tblVehicleEF	MCY	1.50	1.52

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tblVehicleEF	MCY	0.83	0.82
tblVehicleEF	MCY	1.42	1.40
tblVehicleEF	MCY	2.90	2.87
tblVehicleEF	MCY	0.55	1.51
tblVehicleEF	MCY	1.99	1.72
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	20.81	19.80
tblVehicleEF	MCY	10.22	9.20
tblVehicleEF	MCY	182.50	221.16
tblVehicleEF	MCY	45.45	60.27
tblVehicleEF	MCY	1.17	1.16
tblVehicleEF	MCY	0.32	0.32
tblVehicleEF	MCY	2.1640e-003	2.2640e-003
tblVehicleEF	MCY	3.6600e-003	2.8110e-003
tblVehicleEF	MCY	2.0230e-003	2.1130e-003
tblVehicleEF	MCY	3.4480e-003	2.6350e-003
tblVehicleEF	MCY	0.84	0.86
tblVehicleEF	MCY	1.00	0.95
tblVehicleEF	MCY	0.57	0.58
tblVehicleEF	MCY	2.45	2.39
tblVehicleEF	MCY	0.70	1.97
tblVehicleEF	MCY	2.23	1.93
tblVehicleEF	MCY	2.2370e-003	2.1890e-003
tblVehicleEF	MCY	6.8700e-004	5.9600e-004
tblVehicleEF	MCY	0.84	0.86
tblVehicleEF	MCY	1.00	0.95

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tblVehicleEF	MCY	0.57	0.58
tblVehicleEF	MCY	3.04	2.99
tblVehicleEF	MCY	0.70	1.97
tblVehicleEF	MCY	2.43	2.10
tblVehicleEF	MDV	8.8620e-003	2.2930e-003
tblVehicleEF	MDV	0.01	0.05
tblVehicleEF	MDV	0.94	0.58
tblVehicleEF	MDV	2.31	2.38
tblVehicleEF	MDV	472.46	350.42
tblVehicleEF	MDV	101.95	72.06
tblVehicleEF	MDV	0.11	0.04
tblVehicleEF	MDV	0.20	0.11
tblVehicleEF	MDV	1.8890e-003	1.2450e-003
tblVehicleEF	MDV	2.3380e-003	1.4720e-003
tblVehicleEF	MDV	1.7410e-003	1.1480e-003
tblVehicleEF	MDV	2.1490e-003	1.3540e-003
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.15	0.11
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	8.9060e-003
tblVehicleEF	MDV	0.09	0.38
tblVehicleEF	MDV	0.17	0.23
tblVehicleEF	MDV	4.7270e-003	3.2860e-003
tblVehicleEF	MDV	1.0600e-003	6.7600e-004
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.15	0.11
tblVehicleEF	MDV	0.07	0.08

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tblVehicleEF	MDV	0.03	0.01
tblVehicleEF	MDV	0.09	0.38
tblVehicleEF	MDV	0.19	0.25
tblVehicleEF	MDV	9.5090e-003	2.4900e-003
tblVehicleEF	MDV	0.01	0.04
tblVehicleEF	MDV	1.04	0.65
tblVehicleEF	MDV	1.92	1.96
tblVehicleEF	MDV	498.02	362.76
tblVehicleEF	MDV	101.95	71.27
tblVehicleEF	MDV	0.10	0.04
tblVehicleEF	MDV	0.19	0.10
tblVehicleEF	MDV	1.8890e-003	1.2450e-003
tblVehicleEF	MDV	2.3380e-003	1.4720e-003
tblVehicleEF	MDV	1.7410e-003	1.1480e-003
tblVehicleEF	MDV	2.1490e-003	1.3540e-003
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	0.12	0.13
tblVehicleEF	MDV	0.02	9.5510e-003
tblVehicleEF	MDV	0.09	0.35
tblVehicleEF	MDV	0.15	0.20
tblVehicleEF	MDV	4.9840e-003	3.4020e-003
tblVehicleEF	MDV	1.0530e-003	6.6800e-004
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	0.12	0.13
tblVehicleEF	MDV	0.03	0.01

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tblVehicleEF	MDV	0.09	0.35
tblVehicleEF	MDV	0.16	0.22
tblVehicleEF	MDV	8.7270e-003	2.2450e-003
tblVehicleEF	MDV	0.01	0.05
tblVehicleEF	MDV	0.92	0.57
tblVehicleEF	MDV	2.49	2.55
tblVehicleEF	MDV	467.83	348.19
tblVehicleEF	MDV	101.95	72.39
tblVehicleEF	MDV	0.11	0.04
tblVehicleEF	MDV	0.21	0.12
tblVehicleEF	MDV	1.8890e-003	1.2450e-003
tblVehicleEF	MDV	2.3380e-003	1.4720e-003
tblVehicleEF	MDV	1.7410e-003	1.1480e-003
tblVehicleEF	MDV	2.1490e-003	1.3540e-003
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.02	8.7650e-003
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.18	0.24
tblVehicleEF	MDV	4.6810e-003	3.2660e-003
tblVehicleEF	MDV	1.0630e-003	6.7900e-004
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.03	0.01
tblVehicleEF	MDV	0.11	0.46

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tblVehicleEF	MDV	0.20	0.27
tblVehicleEF	MH	0.04	5.3010e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.63	0.40
tblVehicleEF	MH	5.98	0.00
tblVehicleEF	MH	1,229.84	976.48
tblVehicleEF	MH	59.91	0.00
tblVehicleEF	MH	1.50	4.08
tblVehicleEF	MH	0.88	0.74
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	1.1530e-003	0.00
tblVehicleEF	MH	3.2140e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.08
tblVehicleEF	MH	1.0610e-003	0.00
tblVehicleEF	MH	0.97	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.12	0.11
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.2310e-003
tblVehicleEF	MH	7.0300e-004	0.00
tblVehicleEF	MH	0.97	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.16	0.13

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tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.04	5.3010e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.72	0.40
tblVehicleEF	MH	5.59	0.00
tblVehicleEF	MH	1,229.84	976.48
tblVehicleEF	MH	59.91	0.00
tblVehicleEF	MH	1.42	3.93
tblVehicleEF	MH	0.83	0.70
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	1.1530e-003	0.00
tblVehicleEF	MH	3.2140e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.08
tblVehicleEF	MH	1.0610e-003	0.00
tblVehicleEF	MH	1.33	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.88	0.00
tblVehicleEF	MH	0.12	0.11
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.01	9.2310e-003
tblVehicleEF	MH	6.9700e-004	0.00
tblVehicleEF	MH	1.33	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.88	0.00

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tblVehicleEF	MH	0.17	0.13
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.04	5.3010e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.60	0.40
tblVehicleEF	MH	6.17	0.00
tblVehicleEF	MH	1,229.84	976.48
tblVehicleEF	MH	59.91	0.00
tblVehicleEF	MH	1.50	4.06
tblVehicleEF	MH	0.90	0.75
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	1.1530e-003	0.00
tblVehicleEF	MH	3.2140e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.08
tblVehicleEF	MH	1.0610e-003	0.00
tblVehicleEF	MH	0.99	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.48	0.00
tblVehicleEF	MH	0.12	0.11
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.01	9.2310e-003
tblVehicleEF	MH	7.0700e-004	0.00
tblVehicleEF	MH	0.99	0.00
tblVehicleEF	MH	0.11	0.00

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tblVehicleEF	MH	0.48	0.00
tblVehicleEF	MH	0.16	0.13
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
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tblVehicleEF	MHD	4.2710e-003	1.2980e-003
tblVehicleEF	MHD	0.05	8.9060e-003
tblVehicleEF	MHD	0.33	0.41
tblVehicleEF	MHD	0.34	0.18
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tblVehicleEF	MHD	1,192.51	1,019.18
tblVehicleEF	MHD	56.35	9.08
tblVehicleEF	MHD	0.42	0.40
tblVehicleEF	MHD	1.14	1.37
tblVehicleEF	MHD	11.05	11.13
tblVehicleEF	MHD	1.5900e-004	2.3000e-004
tblVehicleEF	MHD	3.1900e-003	6.6690e-003
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tblVehicleEF	MHD	1.5200e-004	2.2000e-004
tblVehicleEF	MHD	3.0470e-003	6.3730e-003
tblVehicleEF	MHD	7.7000e-004	1.0300e-004
tblVehicleEF	MHD	7.7800e-004	3.1000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.1300e-004	2.7100e-004
tblVehicleEF	MHD	0.05	0.01

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tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.3830e-003	6.7900e-004
tblVehicleEF	MHD	0.01	9.7340e-003
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tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	6.1300e-004	2.7100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	0.02	3.7220e-003
tblVehicleEF	MHD	4.3360e-003	1.3230e-003
tblVehicleEF	MHD	0.04	8.5250e-003
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tblVehicleEF	MHD	0.35	0.18
tblVehicleEF	MHD	4.99	0.88
tblVehicleEF	MHD	152.31	71.39
tblVehicleEF	MHD	1,192.51	1,019.18
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tblVehicleEF	MHD	1.10	1.32
tblVehicleEF	MHD	11.01	11.10
tblVehicleEF	MHD	1.3400e-004	1.9700e-004
tblVehicleEF	MHD	3.1900e-003	6.6690e-003
tblVehicleEF	MHD	8.3700e-004	1.1200e-004

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tblVehicleEF	MHD	1.2800e-004	1.8900e-004
tblVehicleEF	MHD	3.0470e-003	6.3730e-003
tblVehicleEF	MHD	7.7000e-004	1.0300e-004
tblVehicleEF	MHD	1.1470e-003	4.5500e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.0690e-003	4.6100e-004
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.30	0.04
tblVehicleEF	MHD	1.4640e-003	6.7800e-004
tblVehicleEF	MHD	0.01	9.7340e-003
tblVehicleEF	MHD	6.5100e-004	8.9000e-005
tblVehicleEF	MHD	1.1470e-003	4.5500e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.0690e-003	4.6100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	0.02	4.1820e-003
tblVehicleEF	MHD	4.2430e-003	1.2860e-003
tblVehicleEF	MHD	0.05	9.0550e-003
tblVehicleEF	MHD	0.46	0.49
tblVehicleEF	MHD	0.34	0.18
tblVehicleEF	MHD	5.46	0.96
tblVehicleEF	MHD	132.03	71.79

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tblVehicleEF	MHD	1,192.51	1,019.18
tblVehicleEF	MHD	56.35	9.12
tblVehicleEF	MHD	0.40	0.42
tblVehicleEF	MHD	1.14	1.36
tblVehicleEF	MHD	11.07	11.14
tblVehicleEF	MHD	1.9400e-004	2.7500e-004
tblVehicleEF	MHD	3.1900e-003	6.6690e-003
tblVehicleEF	MHD	8.3700e-004	1.1200e-004
tblVehicleEF	MHD	1.8500e-004	2.6300e-004
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tblVehicleEF	MHD	7.1400e-004	2.7300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.3900e-004	2.3800e-004
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.32	0.05
tblVehicleEF	MHD	1.2720e-003	6.8100e-004
tblVehicleEF	MHD	0.01	9.7340e-003
tblVehicleEF	MHD	6.5900e-004	9.0000e-005
tblVehicleEF	MHD	7.1400e-004	2.7300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	5.3900e-004	2.3800e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.09

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tblVehicleEF	MHD	0.36	0.05
tblVehicleEF	OBUS	0.01	8.7760e-003
tblVehicleEF	OBUS	9.2660e-003	5.1760e-003
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tblVehicleEF	OBUS	0.25	0.66
tblVehicleEF	OBUS	0.60	0.57
tblVehicleEF	OBUS	5.69	2.33
tblVehicleEF	OBUS	97.15	92.68
tblVehicleEF	OBUS	1,321.20	1,393.34
tblVehicleEF	OBUS	68.99	18.53
tblVehicleEF	OBUS	0.20	0.38
tblVehicleEF	OBUS	0.85	1.17
tblVehicleEF	OBUS	2.24	2.11
tblVehicleEF	OBUS	1.9000e-005	1.3200e-004
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tblVehicleEF	OBUS	8.3900e-004	2.1400e-004
tblVehicleEF	OBUS	1.3050e-003	1.7300e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	8.5300e-004	1.1370e-003
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	0.04	0.31
tblVehicleEF	OBUS	0.35	0.11
tblVehicleEF	OBUS	9.3900e-004	8.8200e-004

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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9000e-004	1.8300e-004
tblVehicleEF	OBUS	1.3050e-003	1.7300e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	8.5300e-004	1.1370e-003
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	0.04	0.31
tblVehicleEF	OBUS	0.39	0.12
tblVehicleEF	OBUS	0.01	8.8760e-003
tblVehicleEF	OBUS	9.4730e-003	5.3030e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.66
tblVehicleEF	OBUS	0.61	0.58
tblVehicleEF	OBUS	5.32	2.18
tblVehicleEF	OBUS	101.91	91.62
tblVehicleEF	OBUS	1,321.20	1,393.36
tblVehicleEF	OBUS	68.99	18.28
tblVehicleEF	OBUS	0.21	0.37
tblVehicleEF	OBUS	0.81	1.11
tblVehicleEF	OBUS	2.19	2.07
tblVehicleEF	OBUS	1.6000e-005	1.1700e-004
tblVehicleEF	OBUS	2.5760e-003	7.9060e-003
tblVehicleEF	OBUS	9.1300e-004	2.3200e-004
tblVehicleEF	OBUS	1.5000e-005	1.1200e-004
tblVehicleEF	OBUS	2.4400e-003	7.5400e-003
tblVehicleEF	OBUS	8.3900e-004	2.1400e-004

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tblVehicleEF	OBUS	1.8490e-003	2.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	1.5300e-003	1.9960e-003
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	0.04	0.30
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	9.8400e-004	8.7100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8300e-004	1.8100e-004
tblVehicleEF	OBUS	1.8490e-003	2.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	1.5300e-003	1.9960e-003
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	0.04	0.30
tblVehicleEF	OBUS	0.37	0.12
tblVehicleEF	OBUS	0.01	8.6570e-003
tblVehicleEF	OBUS	9.1750e-003	5.1200e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.67
tblVehicleEF	OBUS	0.60	0.56
tblVehicleEF	OBUS	5.86	2.39
tblVehicleEF	OBUS	90.56	94.15
tblVehicleEF	OBUS	1,321.20	1,393.33
tblVehicleEF	OBUS	68.99	18.65
tblVehicleEF	OBUS	0.20	0.41

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tblVehicleEF	OBUS	0.85	1.16
tblVehicleEF	OBUS	2.26	2.13
tblVehicleEF	OBUS	2.3000e-005	1.5200e-004
tblVehicleEF	OBUS	2.5760e-003	7.9060e-003
tblVehicleEF	OBUS	9.1300e-004	2.3200e-004
tblVehicleEF	OBUS	2.2000e-005	1.4600e-004
tblVehicleEF	OBUS	2.4400e-003	7.5400e-003
tblVehicleEF	OBUS	8.3900e-004	2.1400e-004
tblVehicleEF	OBUS	1.2450e-003	1.6450e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.6900e-004	1.0250e-003
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	0.05	0.34
tblVehicleEF	OBUS	0.36	0.11
tblVehicleEF	OBUS	8.7600e-004	8.9500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	1.8500e-004
tblVehicleEF	OBUS	1.2450e-003	1.6450e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.6900e-004	1.0250e-003
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	0.05	0.34
tblVehicleEF	OBUS	0.39	0.12
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.02	5.8180e-003

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tblVehicleEF	SBUS	0.08	3.2730e-003
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tblVehicleEF	SBUS	7.02	0.46
tblVehicleEF	SBUS	1,202.36	325.60
tblVehicleEF	SBUS	1,104.05	1,014.66
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tblVehicleEF	SBUS	9.97	3.36
tblVehicleEF	SBUS	4.09	5.26
tblVehicleEF	SBUS	14.11	12.92
tblVehicleEF	SBUS	9.4890e-003	3.4630e-003
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tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.8600e-004	4.4000e-005
tblVehicleEF	SBUS	9.0780e-003	3.3130e-003
tblVehicleEF	SBUS	2.7130e-003	2.7690e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.2300e-004	4.1000e-005
tblVehicleEF	SBUS	2.2010e-003	2.6800e-004
tblVehicleEF	SBUS	0.03	2.8790e-003
tblVehicleEF	SBUS	0.78	0.19
tblVehicleEF	SBUS	1.4590e-003	1.9000e-004
tblVehicleEF	SBUS	0.11	0.09
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.36	0.02
tblVehicleEF	SBUS	0.01	3.0920e-003
tblVehicleEF	SBUS	0.01	9.6660e-003

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tblVehicleEF	SBUS	5.5000e-004	2.6000e-005
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tblVehicleEF	SBUS	1.12	0.26
tblVehicleEF	SBUS	1.4590e-003	1.9000e-004
tblVehicleEF	SBUS	0.14	0.11
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.39	0.02
tblVehicleEF	SBUS	0.84	0.04
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tblVehicleEF	SBUS	1,104.05	1,014.67
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tblVehicleEF	SBUS	7.9990e-003	2.9270e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.8600e-004	4.4000e-005
tblVehicleEF	SBUS	7.6530e-003	2.8010e-003
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tblVehicleEF	SBUS	0.02	0.03

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tblVehicleEF	SBUS	7.2300e-004	4.1000e-005
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tblVehicleEF	SBUS	2.6250e-003	3.4100e-004
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tblVehicleEF	SBUS	9.3450e-003	0.02
tblVehicleEF	SBUS	0.31	0.02
tblVehicleEF	SBUS	0.01	3.1710e-003
tblVehicleEF	SBUS	0.01	9.6660e-003
tblVehicleEF	SBUS	5.2400e-004	2.4000e-005
tblVehicleEF	SBUS	3.1130e-003	3.8200e-004
tblVehicleEF	SBUS	0.03	2.9390e-003
tblVehicleEF	SBUS	1.11	0.26
tblVehicleEF	SBUS	2.6250e-003	3.4100e-004
tblVehicleEF	SBUS	0.14	0.11
tblVehicleEF	SBUS	9.3450e-003	0.02
tblVehicleEF	SBUS	0.34	0.02
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.02	5.7900e-003
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tblVehicleEF	SBUS	1,121.06	314.08
tblVehicleEF	SBUS	1,104.05	1,014.65
tblVehicleEF	SBUS	42.89	2.72

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tblVehicleEF	SBUS	9.53	3.27
tblVehicleEF	SBUS	4.07	5.24
tblVehicleEF	SBUS	14.12	12.94
tblVehicleEF	SBUS	0.01	4.2020e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.8600e-004	4.4000e-005
tblVehicleEF	SBUS	0.01	4.0200e-003
tblVehicleEF	SBUS	2.7130e-003	2.7690e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.2300e-004	4.1000e-005
tblVehicleEF	SBUS	2.0770e-003	2.4600e-004
tblVehicleEF	SBUS	0.03	2.9910e-003
tblVehicleEF	SBUS	0.78	0.19
tblVehicleEF	SBUS	1.3030e-003	1.7000e-004
tblVehicleEF	SBUS	0.11	0.09
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.38	0.02
tblVehicleEF	SBUS	0.01	2.9830e-003
tblVehicleEF	SBUS	0.01	9.6660e-003
tblVehicleEF	SBUS	5.6300e-004	2.7000e-005
tblVehicleEF	SBUS	2.0770e-003	2.4600e-004
tblVehicleEF	SBUS	0.03	2.9910e-003
tblVehicleEF	SBUS	1.12	0.26
tblVehicleEF	SBUS	1.3030e-003	1.7000e-004
tblVehicleEF	SBUS	0.14	0.11
tblVehicleEF	SBUS	0.01	0.02

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tblVehicleEF	SBUS	0.41	0.02
tblVehicleEF	UBUS	1.67	4.89
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	7.41	38.17
tblVehicleEF	UBUS	7.16	1.20
tblVehicleEF	UBUS	1,914.19	1,887.51
tblVehicleEF	UBUS	116.57	13.52
tblVehicleEF	UBUS	6.89	0.41
tblVehicleEF	UBUS	13.92	12.90
tblVehicleEF	UBUS	0.57	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.1070e-003
tblVehicleEF	UBUS	1.0130e-003	1.7900e-004
tblVehicleEF	UBUS	0.24	0.03
tblVehicleEF	UBUS	3.0000e-003	7.1460e-003
tblVehicleEF	UBUS	0.10	2.9510e-003
tblVehicleEF	UBUS	9.3100e-004	1.6400e-004
tblVehicleEF	UBUS	2.2340e-003	8.5000e-004
tblVehicleEF	UBUS	0.04	8.8370e-003
tblVehicleEF	UBUS	2.2130e-003	6.4200e-004
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	9.6460e-003	0.04
tblVehicleEF	UBUS	0.63	0.06
tblVehicleEF	UBUS	0.01	3.6080e-003
tblVehicleEF	UBUS	1.2970e-003	1.3400e-004
tblVehicleEF	UBUS	2.2340e-003	8.5000e-004
tblVehicleEF	UBUS	0.04	8.8370e-003

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tblVehicleEF	UBUS	2.2130e-003	6.4200e-004
tblVehicleEF	UBUS	2.24	5.00
tblVehicleEF	UBUS	9.6460e-003	0.04
tblVehicleEF	UBUS	0.69	0.07
tblVehicleEF	UBUS	1.67	4.89
tblVehicleEF	UBUS	0.04	0.01
tblVehicleEF	UBUS	7.43	38.17
tblVehicleEF	UBUS	6.11	1.04
tblVehicleEF	UBUS	1,914.19	1,887.51
tblVehicleEF	UBUS	116.57	13.24
tblVehicleEF	UBUS	6.64	0.41
tblVehicleEF	UBUS	13.86	12.84
tblVehicleEF	UBUS	0.57	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.1070e-003
tblVehicleEF	UBUS	1.0130e-003	1.7900e-004
tblVehicleEF	UBUS	0.24	0.03
tblVehicleEF	UBUS	3.0000e-003	7.1460e-003
tblVehicleEF	UBUS	0.10	2.9510e-003
tblVehicleEF	UBUS	9.3100e-004	1.6400e-004
tblVehicleEF	UBUS	2.7460e-003	1.1850e-003
tblVehicleEF	UBUS	0.05	9.3670e-003
tblVehicleEF	UBUS	3.9420e-003	1.1690e-003
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	8.6180e-003	0.04
tblVehicleEF	UBUS	0.58	0.06
tblVehicleEF	UBUS	0.01	3.6080e-003

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tblVehicleEF	UBUS	1.2790e-003	1.3100e-004
tblVehicleEF	UBUS	2.7460e-003	1.1850e-003
tblVehicleEF	UBUS	0.05	9.3670e-003
tblVehicleEF	UBUS	3.9420e-003	1.1690e-003
tblVehicleEF	UBUS	2.24	5.00
tblVehicleEF	UBUS	8.6180e-003	0.04
tblVehicleEF	UBUS	0.63	0.06
tblVehicleEF	UBUS	1.67	4.89
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	7.41	38.17
tblVehicleEF	UBUS	7.63	1.28
tblVehicleEF	UBUS	1,914.19	1,887.51
tblVehicleEF	UBUS	116.57	13.65
tblVehicleEF	UBUS	6.85	0.41
tblVehicleEF	UBUS	13.94	12.93
tblVehicleEF	UBUS	0.57	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.1070e-003
tblVehicleEF	UBUS	1.0130e-003	1.7900e-004
tblVehicleEF	UBUS	0.24	0.03
tblVehicleEF	UBUS	3.0000e-003	7.1460e-003
tblVehicleEF	UBUS	0.10	2.9510e-003
tblVehicleEF	UBUS	9.3100e-004	1.6400e-004
tblVehicleEF	UBUS	2.0580e-003	7.6100e-004
tblVehicleEF	UBUS	0.05	9.8070e-003
tblVehicleEF	UBUS	2.0030e-003	5.7100e-004
tblVehicleEF	UBUS	0.51	0.07

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tblVehicleEF	UBUS	0.01	0.05
tblVehicleEF	UBUS	0.66	0.06
tblVehicleEF	UBUS	0.01	3.6080e-003
tblVehicleEF	UBUS	1.3050e-003	1.3500e-004
tblVehicleEF	UBUS	2.0580e-003	7.6100e-004
tblVehicleEF	UBUS	0.05	9.8070e-003
tblVehicleEF	UBUS	2.0030e-003	5.7100e-004
tblVehicleEF	UBUS	2.23	5.00
tblVehicleEF	UBUS	0.01	0.05
tblVehicleEF	UBUS	0.72	0.07
tblVehicleTrips	ST_TR	1.90	1.80
tblVehicleTrips	SU_TR	1.11	1.01
tblVehicleTrips	WD_TR	8.11	8.00

2.0 Emissions Summary

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8584	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0117
Energy	0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	956.9890	956.9890	0.0325	0.0125	961.5137
Mobile	0.3548	0.8350	2.8825	9.5500e-003	1.1052	7.4100e-003	1.1126	0.2950	6.9300e-003	0.3019	0.0000	925.8816	925.8816	0.0331	0.0000	926.7089
Waste						0.0000	0.0000		0.0000	0.0000	2.3141	0.0000	2.3141	0.1368	0.0000	5.7331
Water						0.0000	0.0000		0.0000	0.0000	31.1984	232.7949	263.9933	3.2142	0.0780	367.5890
Total	1.2483	1.1546	3.1565	0.0115	1.1052	0.0317	1.1369	0.2950	0.0312	0.3262	33.5125	2,115.6765	2,149.1889	3.4166	0.0905	2,261.5564

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8584	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0117
Energy	0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	956.9890	956.9890	0.0325	0.0125	961.5137
Mobile	0.3548	0.8350	2.8825	9.5500e-003	1.1052	7.4100e-003	1.1126	0.2950	6.9300e-003	0.3019	0.0000	925.8816	925.8816	0.0331	0.0000	926.7089
Waste						0.0000	0.0000		0.0000	0.0000	2.3141	0.0000	2.3141	0.1368	0.0000	5.7331
Water						0.0000	0.0000		0.0000	0.0000	31.1984	232.7949	263.9933	3.2142	0.0780	367.5890
Total	1.2483	1.1546	3.1565	0.0115	1.1052	0.0317	1.1369	0.2950	0.0312	0.3262	33.5125	2,115.6765	2,149.1889	3.4166	0.0905	2,261.5564

	ROG	NOx	CO	SO2	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	Architectural Coating	Architectural Coating	4/13/2022	4/12/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 3.78

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
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	0	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Architectural Coating - 2022

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3548	0.8350	2.8825	9.5500e-003	1.1052	7.4100e-003	1.1126	0.2950	6.9300e-003	0.3019	0.0000	925.8816	925.8816	0.0331	0.0000	926.7089
Unmitigated	0.3548	0.8350	2.8825	9.5500e-003	1.1052	7.4100e-003	1.1126	0.2950	6.9300e-003	0.3019	0.0000	925.8816	925.8816	0.0331	0.0000	926.7089

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Research & Development	1,538.92	346.26	194.29	2,948,473	2,948,473
Total	1,538.92	346.26	194.29	2,948,473	2,948,473

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
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.612510	0.039108	0.179582	0.101865	0.013899	0.005385	0.017049	0.024763	0.000000	0.000000	0.005839	0.000000	0.000000
Research & Development	0.612510	0.039108	0.179582	0.101865	0.013899	0.005385	0.017049	0.024763	0.000000	0.000000	0.005839	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	609.0970	609.0970	0.0258	6.0800e-003	611.5543
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	609.0970	609.0970	0.0258	6.0800e-003	611.5543
NaturalGas Mitigated	0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8920	347.8920	6.6700e-003	6.3800e-003	349.9594
NaturalGas Unmitigated	0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8920	347.8920	6.6700e-003	6.3800e-003	349.9594

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	6.51925e+006	0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8920	347.8920	6.6700e-003	6.3800e-003	349.9594
Total		0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8920	347.8920	6.6700e-003	6.3800e-003	349.9594

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	6.51925e+006	0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8920	347.8920	6.6700e-003	6.3800e-003	349.9594
Total		0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8920	347.8920	6.6700e-003	6.3800e-003	349.9594

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	1.13232e+006	205.8607	8.7300e-003	2.0500e-003	206.6912
Research & Development	2.21797e+006	403.2363	0.0171	4.0200e-003	404.8631
Total		609.0970	0.0258	6.0700e-003	611.5543

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	1.13232e+006	205.8607	8.7300e-003	2.0500e-003	206.6912
Research & Development	2.21797e+006	403.2363	0.0171	4.0200e-003	404.8631
Total		609.0970	0.0258	6.0700e-003	611.5543

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8584	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0117
Unmitigated	0.8584	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0117

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	0.0957					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7621					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.2000e-004	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0117
Total	0.8584	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0117

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0957					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7621					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.2000e-004	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0117
Total	0.8584	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0117

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	263.9933	3.2142	0.0780	367.5890
Unmitigated	263.9933	3.2142	0.0780	367.5890

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	98.3388 / 0	263.9933	3.2142	0.0780	367.5890
Total		263.9933	3.2142	0.0780	367.5890

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	98.3388 / 0	263.9933	3.2142	0.0780	367.5890
Total		263.9933	3.2142	0.0780	367.5890

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.3141	0.1368	0.0000	5.7331
Unmitigated	2.3141	0.1368	0.0000	5.7331

Towne Centre Existing - San Diego County APCD Air District, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Research & Development	11.4	2.3141	0.1368	0.0000	5.7331
Total		2.3141	0.1368	0.0000	5.7331

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Research & Development	11.4	2.3141	0.1368	0.0000	5.7331
Total		2.3141	0.1368	0.0000	5.7331

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Towne Centre Existing - San Diego County APCD Air District, 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 4.3
EMFAC2017 OUTPUTS

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EMFAC2017 Derived CalEEMod Annual Emission Rates: Year 2028^{1,2}

Season	Pollutant	LDA	LDT	MDV	LHDT1	LHDT2	MHDT	HHDT	OBUS	UBUS	MCY	SBUS	MH
Annual	CH4_IDLEX	0	0	0	0.0041394	0.002791309	0.003926734	0.028933023	0.0087669	0	0	0.0357008	0
Annual	CH4_RUNEX	0.0013173	0.0035264	0.0024592	0.0025408	0.0067366	0.005890964	0.001421045	0.082976797	0.0057522	0.0011101	0.3507248	0.0061975 0.0054243
Annual	CH4_STREX	0.0341736	0.0517064	0.0495654	0.0542667	0.0102057	0.006059004	0.009155477	4.78342E-07	0.0218091	0.0157512	0.2388575	0.003042
Annual	CO_IDLEX	0	0	0	0	0.1685968	0.1335158	0.409764367	6.613014607	0.6525079	0	0	1.6576429
Annual	CO_RUNEX	0.4358	0.7809867	0.6180829	0.6131072	0.6293453	0.543808633	0.191938183	0.52845208	0.6291108	0.0616921	19.37641	0.4683938 0.4100982
Annual	CO_STREX	1.7895538	2.0019352	2.3409168	2.4689585	0.8549154	0.502454802	0.982820823	0.008245663	2.3897758	1.2095033	8.7062507	0.4251907
Annual	CO2_NBIO_IDLEX	0	0	0	0	8.8170216	13.65079831	73.13794955	1035.572539	91.553277	0	0	327.46305
Annual	CO2_NBIO_RUNEX	233.22972	288.10645	297.07892	359.05958	717.0751	718.1163717	1036.120412	1323.365747	1418.764	368.62394	220.1611	1033.9185 988.60008
Annual	CO2_NBIO_STREX	47.566751	59.604017	61.597963	73.984344	9.6365063	6.895564392	9.320899167	0.07680672	18.909938	13.655074	59.37981	2.435347
Annual	NOX_IDLEX	0	0	0	0	0.0649837	0.088807844	0.416395522	5.561997529	0.373892	0	0	3.5315143
Annual	NOX_RUNEX	0.0217576	0.0625621	0.0448599	0.0461123	0.6601768	0.649292814	1.374287162	2.509149352	1.1781252	0.0380738	1.1508991	5.7536083 4.2045875
Annual	NOX_STREX ³	0.1369244	0.2013615	0.1994385	0.2220029	0.2347126	0.147590244	1.673281587	2.373271612	0.8024403	0.132975	0.2664677	0.8621343
Annual	PM10_IDLEX	0	0	0	0	0.0010142	0.001462884	0.000265143	0.002616136	0.000128	0	0	0.0038479
Annual	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.060884225	0.13034	0.0273725	0.01176	0.7448002 0.13034
Annual	PM10_PMTW	0.008	0.008	0.008	0.008	0.0100531	0.010819958	0.012000003	0.035484153	0.012	0.0024878	0.004	0.0111378 0.016
Annual	PM10_RUNEX	0.0012481	0.0016024	0.0013221	0.0013283	0.0105273	0.015092591	0.006674188	0.024525786	0.0078317	0.0005875	0.0022369	0.0341338 0.0937288
Annual	PM10_STREX	0.0015358	0.0019561	0.0015549	0.001551	0.0002054	0.000107489	0.000114094	7.52045E-07	0.0002329	0.0001782	0.0028337	4.039E-05
Annual	PM25_IDLEX	0	0	0	0	0.0009704	0.001399601	0.000253673	0.002502963	0.0001225	0	0	0.0036814
Annual	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.026093239	0.05586	0.0117311	0.00504	0.3192001 0.05586
Annual	PM25_PMTW	0.002	0.002	0.002	0.002	0.0025133	0.002704989	0.003000001	0.008871038	0.003	0.000622	0.001	0.0027844 0.004
Annual	PM25_RUNEX	0.001149	0.0014739	0.001217	0.0012248	0.0100305	0.014417071	0.006377952	0.02346477	0.0074685	0.0005402	0.0020883	0.0326443 0.0896741
Annual	PM25_STREX	0.0014121	0.0017985	0.0014297	0.0014261	0.0001888	9.88321E-05	0.000104905	6.91478E-07	0.0002142	0.0001638	0.0026584	3.713E-05
Annual	ROG_DIURN	0.0286407	0.0797993	0.0532092	0.0608937	0.0014559	0.000707153	0.000328038	2.33189E-06	0.0017501	0.0007673	0.9449295	0.0002424
Annual	ROG_HTSK	0.072731	0.1632841	0.1073162	0.1192436	0.0589364	0.029636982	0.01701221	0.000119206	0.0258135	0.0076262	0.7268994	0.0026447
Annual	ROG_IDLEX	0	0	0	0	0.0178662	0.014496689	0.01921234	0.441753968	0.0557019	0	0	0.1706388
Annual	ROG_RESTL	0.0362209	0.0926324	0.0734452	0.0866482	0.0011655	0.000612303	0.000281061	2.17929E-06	0.0011426	0.0005661	0.7301909	0.000168
Annual	ROG_RUNEX	0.0045762	0.0148531	0.0094931	0.0099851	0.0902405	0.103732019	0.013847147	0.025456462	0.0328514	0.0033486	2.370294	0.0966031 0.1167818
Annual	ROG_RUNLS	0.1789076	0.5834355	0.3860629	0.3944185	0.4323206	0.174882627	0.088691555	0.00570333	0.312229	0.0370357	1.7207447	0.0157326
Annual	ROG_STREX	0.1437718	0.2472179	0.2202413	0.252225	0.0505739	0.029181895	0.046055438	2.4962E-06	0.1138773	0.0619411	1.8245352	0.0171807
Annual	SO2_IDLEX	0	0	0	0	8.518E-05	0.000130379	0.000693982	0.009548727	0.000871	0	0	0.0031084
Annual	SO2_RUNEX	0.0022034	0.0027218	0.0028065	0.0033921	0.0069805	0.006928776	0.009895188	0.011834003	0.0137751	0.0036478	0.0021787	0.0098432 0.0093458
Annual	SO2_STREX	0.0004494	0.0005631	0.0005819	0.0006989	9.536E-05	6.82327E-05	9.22379E-05	7.60065E-07	0.0001871	0.0001351	0.0005876	2.41E-05
Annual	TOG_DIURN	0.0287205	0.0800225	0.053358	0.061064	0.0014559	0.000707153	0.000328038	2.33189E-06	0.0017501	0.0007673	0.9449295	0.0002424
Annual	TOG_HTSK	0.0729341	0.163741	0.1076164	0.1195772	0.0589364	0.029636982	0.01701221	0.000119206	0.0258135	0.0076262	0.7268994	0.0026447
Annual	TOG_IDLEX	0	0	0	0	0.0247671	0.019301332	0.026188201	0.511364463	0.072328	0	0	0.2419369
Annual	TOG_RESTL	0.0363221	0.0928917	0.0736508	0.0868907	0.0011655	0.000612303	0.000281061	2.17929E-06	0.0011426	0.0005661	0.7301909	0.000168
Annual	TOG_RUNEX	0.0066589	0.0217188	0.0138423	0.0145157	0.1074955	0.119840923	0.017177839	0.111295077	0.0456264	0.0048862	2.9539595	0.1134223 0.1329483
Annual	TOG_RUNLS	0.1794085	0.5850692	0.3871439	0.3955229	0.4323206	0.174882627	0.088691555	0.000570333	0.312229	0.0370357	1.7207447	0.0157326
Annual	TOG_STREX	0.1577898	0.271322	0.2417153	0.2768174	0.055372	0.031950502	0.050424907	2.73302E-06	0.1246813	0.0678177	1.9863457	0.0188107
Summer	CH4_IDLEX	0	0	0	0	0.0041478	0.002797673	0.003926734	0.028933023	0.0087669	0	0	0.0357008
Summer	CH4_RUNEX	0.0014356	0.0038108	0.0026686	0.0027588	0.0068197	0.005924816	0.001448802	0.082976797	0.0058948	0.0011303	0.3432798	0.0062595 0.0054243
Summer	CH4_STREX	0.0301717	0.045396	0.0436785	0.0478202	0.0097826	0.005809599	0.008762112	4.5426E-07	0.0208119	0.0143959	0.2093024	0.002647
Summer	CO_IDLEX	0	0	0	0	0.1685968	0.13355158	0.352760286	6.520141454	0.6468266	0	0	1.6187785
Summer	CO_RUNEX	0.4901799	0.8702464	0.6919354	0.6859814	0.6365734	0.54633511	0.194290314	0.529235795	0.6430588	0.0631847	18.499756	0.4750393 0.4100982
Summer	CO_STREX	1.4810737	1.6540073	1.9326116	2.036328	0.8103644	0.476593022	0.923759397	0.00775015	2.2374509	1.0442888	7.7763638	0.3324859
Summer	CO2_NBIO_IDLEX	0	0	0	0	8.8170216	13.65079831	73.03969892	1023.552051	90.507598	0	0	336.66544
Summer	CO2_NBIO_RUNEX	246.13232	301.78702	309.84622	371.75668	717.08824	718.1209616	1036.124624	1323.367031	1418.7889	368.62666	218.5342	1033.9304 988.60008
Summer	CO2_NBIO_STREX	46.995224	58.917966	60.827186	73.159016	9.5584385	6.850285753	9.219995134	0.076020899	18.650261	13.37493	57.112303	2.2808864
Summer	NOX_IDLEX	0	0	0	0	0.0649837	0.088807844	0.406079569	5.531040623	0.3553178	0	0	3.6108604
Summer	NOX_RUNEX	0.0197937	0.0565396	0.0406617	0.0418488	0.6344166	0.625531318	1.322637725	2.416687263	1.1240914	0.0345998	1.0361066	5.5474549 4.054164
Summer	NOX_STREX ³	0.1264664	0.1833372	0.1815678	0.2021029	0.2232477	0.140383553	1.668712811	2.373271025	0.7898972	0.1259038	0.2498171	0.8604574
Summer	PM10_IDLEX	0	0	0	0	0.0010142	0.001462884	0.000265143	0.002616136	0.0001137	0	0	0.0032516
Summer	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.060884225	0.13034	0.0273725	0.01176	0.7448002 0.13034
Summer	PM10_PMTW	0.008	0.008	0.008	0.008	0.0100531	0.010819958	0.012000003	0.035484153	0.012	0.0024878	0.004	0.0111378 0.016
Summer	PM10_RUNEX	0.0012481	0.0016024	0.0013221	0.0013283	0.0105273	0.015092591	0.006674188	0.024525786	0.0078317	0.0005875	0.0022369	0.0341338 0.0937288
Summer	PM10_STREX	0.0015358	0.0019561	0.0015549	0.001551	0.0002054	0.000107489	0.000114094	7.52045E-07	0.0002329	0.0001782	0.0028337	4.039E-05
Summer	PM25_IDLEX	0	0	0	0	0.0009704	0.001399601	0.000253673	0.002502963	0.0001225	0	0	0.0031109
Summer	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.026093239	0.05586	0.0117311	0.00504	0.3192001 0.05586
Summer	PM25_PMTW	0.002	0.002	0.002	0.002	0.0025133	0.002704989	0.003000001	0.008871038	0.003	0.000622	0.001	0.0027844 0.004
Summer	PM25_RUNEX	0.001149	0.0014739	0.001217	0.0012248	0.0100305	0.014417071	0.006377952	0.02346477	0.0074685	0.0005402	0.0020883	0.0326443 0.0896741
Summer	PM25_STREX	0.0014121	0.0017985	0.0014297	0.0014261	0.0001888	9.88321E-05	0.000104905	6.91478E-07	0.0002142	0.0001638	0.0026584	3.713E-05

Winter	CH4_IDLEX	0	0	0	0	0.0041357	0.002788875	0.004200752	0.018860018	0.0086511	0	0	0.0356981	0
Winter	CH4_RUNEX	0.0012889	0.0034577	0.0024086	0.0024884	0.0066997	0.005875867	0.001407864	0.001129533	0.0056896	0.0010884	0.3548519	0.0061686	0.0054243
Winter	CH4_STREX	0.0357334	0.0541718	0.0518661	0.0567888	0.0103956	0.006171098	0.009309855	4.8886E-07	0.0222565	0.0163557	0.2526816	0.0032371	0
Winter	CO_IDLEX	0	0	0	0	0.1685968	0.13355158	0.489481414	6.58525428	0.6603536	0	0	1.7113129	0
Winter	CO_RUNEX	0.4264993	0.7658076	0.6054766	0.6006984	0.626157	0.542692691	0.190919919	0.25438005	0.623079	0.0610588	19.987952	0.4653234	0.4100982
Winter	CO_STREX	1.9186037	2.1478156	2.5128648	2.6513515	0.8757953	0.514617249	1.008994607	0.008465256	2.4607044	1.2852217	9.174577	0.4713031	0
Winter	CO2_NBIO_IDLEX	0	0	0	0	8.8170216	13.65079831	73.26837884	1027.010479	92.997309	0	0	314.75498	0
Winter	CO2_NBIO_RUNEX	230.89592	285.63247	294.7699	356.7633	717.06929	718.1143417	1036.118585	1252.512894	1418.7532	368.62278	221.26008	1033.9131	988.60008
Winter	CO2_NBIO_STREX	47.804543	59.889396	61.920363	74.32979	9.6729526	6.916772258	9.365547946	0.077154963	19.030566	13.783269	60.49838	2.5121558	0
Winter	NOX_IDLEX	0	0	0	0	0.0649837	0.088807844	0.430640558	5.769415811	0.3995421	0	0	3.421941	0
Winter	NOX_RUNEX	0.0220581	0.0635125	0.045514	0.0467709	0.658424	0.647141907	1.368686888	2.474373549	1.1758396	0.038342	1.1630188	5.7291203	4.185987
Winter	NOX_STREX ²	0.1416298	0.2082795	0.2062875	0.2296357	0.2400012	0.150916364	1.67532615	2.373271874	0.8081343	0.1360547	0.2736262	0.8629385	0
Winter	PM10_IDLEX	0	0	0	0	0.0010142	0.001462884	0.000317887	0.002875714	0.0001477	0	0	0.0046713	0
Winter	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.059347637	0.13034	0.0273725	0.01176	0.7448002	0.13034
Winter	PM10_PMTW	0.008	0.008	0.008	0.008	0.0100531	0.010819958	0.012000003	0.034588183	0.012	0.0024878	0.004	0.0111378	0.016
Winter	PM10_RUNEX	0.0012481	0.0016024	0.0013221	0.0013283	0.0105273	0.015092591	0.006674188	0.024420574	0.0078317	0.0005875	0.0022369	0.0341338	0.0937288
Winter	PM10_STREX	0.0015358	0.0019561	0.0015549	0.001551	0.0002054	0.000107489	0.000114094	7.52045E-07	0.0002329	0.0001782	0.0028337	4.039E-05	0
Winter	PM25_IDLEX	0	0	0	0	0.0009704	0.001399601	0.000304135	0.002751312	0.0001413	0	0	0.0044692	0
Winter	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.025434702	0.05586	0.0117311	0.00504	0.3192001	0.05586
Winter	PM25_PMTW	0.002	0.002	0.002	0.002	0.0025133	0.002704989	0.003000001	0.008647046	0.003	0.000622	0.001	0.0027844	0.004
Winter	PM25_RUNEX	0.001149	0.0014739	0.001217	0.0012248	0.0100305	0.014417071	0.006377952	0.023364109	0.0074685	0.0005402	0.0020883	0.0326443	0.0896741
Winter	PM25_STREX	0.0014121	0.0017985	0.0014297	0.0014261	0.0001888	9.88321E-05	0.000104905	6.91478E-07	0.0002142	0.0001638	0.0026584	3.713E-05	0
Winter	ROG_DIURN	0.0230663	0.0659004	0.0417249	0.0473125	0.0013206	0.000622518	0.000290836	2.03453E-06	0.0016699	0.0006936	0.8593157	0.0002252	0
Winter	ROG_HTSK	0.0785476	0.1823488	0.1158538	0.1279504	0.0687815	0.03289449	0.018401558	0.000130923	0.027534	0.0085491	0.9643924	0.0027585	0
Winter	ROG_IDLEX	0	0	0	0	0.0178662	0.014496689	0.019973481	0.406051007	0.0533927	0	0	0.170905	0
Winter	ROG_RESTL	0.0309197	0.0792218	0.063044	0.0743229	0.0010295	0.000538107	0.000246646	1.90985E-06	0.0010314	0.0005039	0.5793682	0.0001506	0
Winter	ROG_RUNEX	0.0044999	0.0146184	0.0093391	0.0098279	0.0900667	0.103671467	0.013797899	0.023002157	0.0325601	0.003313	2.4059753	0.0964589	0.1167818
Winter	ROG_RUNLS	0.2120195	0.7125202	0.4674121	0.4749061	0.477314	0.194298554	0.099823487	0.00062942	0.3395945	0.0452644	2.0547732	0.0200855	0
Winter	ROG_STREX	0.1510771	0.2601897	0.2315571	0.2652127	0.0515719	0.029756727	0.046997274	2.54724E-06	0.1163205	0.0643768	1.9376792	0.0182882	0
Winter	SO2_IDLEX	0	0	0	0	8.518E-05	0.000130379	0.000695041	0.009702686	0.0008846	0	0	0.0029883	0
Winter	SO2_RUNEX	0.0021813	0.0026984	0.0027847	0.0033704	0.0069804	0.006928756	0.00989517	0.011833998	0.013775	0.0036478	0.0021895	0.0098431	0.0093458
Winter	SO2_STREX	0.0004516	0.0005658	0.000585	0.0007022	9.572E-05	6.84471E-05	9.26797E-05	7.63511E-07	0.0001883	0.0001364	0.0005987	2.486E-05	0
Winter	TOG_DIURN	0.0231307	0.0660849	0.0418416	0.0474449	0.0013206	0.000622518	0.000290836	2.03453E-06	0.0016699	0.0006936	0.8593157	0.0002252	0
Winter	TOG_HTSK	0.0787671	0.1828591	0.1161779	0.1283083	0.0687815	0.03289449	0.018401558	0.000130923	0.027534	0.0085491	0.9643924	0.0027585	0
Winter	TOG_IDLEX	0	0	0	0	0.0247671	0.019301932	0.027406153	0.462258162	0.0696992	0	0	0.24224	0
Winter	TOG_RESTL	0.0310062	0.0794436	0.0632205	0.074531	0.0010295	0.000538107	0.000246646	1.90985E-06	0.0010314	0.0005039	0.5793682	0.0001506	0
Winter	TOG_RUNEX	0.0065473	0.0213755	0.0136169	0.0142858	0.107242	0.119752566	0.017105977	0.026299429	0.0452013	0.0048344	2.9975787	0.1132118	0.1329483
Winter	TOG_RUNLS	0.2126131	0.7145152	0.4687208	0.4762359	0.477314	0.194298554	0.099823487	0.00062942	0.3395945	0.0452644	2.0547732	0.0200855	0
Winter	TOG_STREX	0.1658074	0.2855587	0.2541343	0.2910714	0.0564648	0.032579871	0.051456099	2.78891E-06	0.1273563	0.0704844	2.1094872	0.0200232	0

1 Source: California Air Resources Board. EMFAC2017 Web Database. <https://www.arb.ca.gov/emfac/2017/>; California Air Pollution Control Officers Association (CAPCOA). 2017, November. California Emissions Estimator Model User's Guide, Version 2016.3.2, Appendix A.

2 Unless otherwise noted, per CalEEMod methodology, the calculated CalEEMod emission rates are derived from the emission rates obtained using the EMFAC2017 Web Database for the Los Angeles (SC) region.

3 Because EMFAC2017 provides vehicle trips data for MHDT and HHDT diesel trucks, the formula provided in Appendix A of the CalEEMod User's Guide in calculating the NO_x STREX emission rates are utilized.