Appendix F

Greenhouse Gas Assessment

GREENHOUSE GAS ASSESSMENT

for the

Imperial Avalon Project

Carson, California

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SYMBOLS, ABBREVIATIONS, AND ACRONYMS

AB	Assembly Bill
APS	alternative planning strategy
APN	Assessor's Parcel Number
BAU	business as usual
CAL/EPA	California Environmental Protection Agency
CALGreen	California Green Building Standards
CALEEMod	California Emissions Estimator Model
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CAT	Climate Action Team
CARB	California Air Resources Board
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFC	chlorofluorocarbon
CH_4	methane
CNRA	California Natural Resources Agency
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
CPUC	California Public Utilities Commission
EECAP	energy efficiency climate action plan
EMFAC2017	CARB's 2017 EMission FACtor Model
EPA	U.S. Environmental Protection Agency
EO	Executive Order
EV	Electric Vehicle
°F	Degrees Fahrenheit
FAR	Floor Area Ratio
FCAA	Federal Clean Air Act
GBA	Gross Building Area
GHG	greenhouse gas
GWP	global warming potential
H_2O	water vapor
HFC	hydrofluorocarbon
HQTA	high quality transit area
I-110	Interstate 110
I-405	Interstate 405
IPCC	International Panel for Climate Change
kWh	kilowatt-hours
LEV	Low-Emission Vehicle
LCFS	Low Carbon Fuel Standard
LOS	level of service
NMA	Neighborhood Mobility Areas

MPO	Metropolitan Planning Organization
MT	Metric Ton
$MTCO_2e$	metric tons of carbon dioxide equivalent
MWELO	Model Water Efficient Landscape Ordinance
N_2O	nitrous oxide
NO_2	nitrogen dioxide
O_3	ozone
PHEV	plug-in hybrid electric vehicles
PFCs	perfluorocarbons
RTP	Regional Transportation Plan
SB	Senate Bill
SBCCOG	South Bay Cities Council of Governments
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
SCS	Sustainable Community Strategy
SF_6	sulfur hexafluoride
TPA	Transit Priority Areas
VMT	vehicle miles traveled
VOC	volatile organic compound
ZEV	zero-emission vehicle

EXECUTIVE SUMMARY

The purpose of this Greenhouse Gas Assessment is to evaluate potential short- and long-term greenhouse gas impacts resulting from implementation of the proposed Imperial Avalon project. Consistent with Appendix G of the California Environmental Quality Act (CEQA) Guidelines, Table 1, *Summary of CEQA Significance Findings*, summarizes the results of this assessment based on the significance criteria detailed in this report.

Table 1
Summary of CEQA Significance Findings

CEQA Threshold	Significance Findings	
	Unmitigated	Mitigated
GHG-1: Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	Less Than Significant	Not Applicable
GHG-2: Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	Less Than Significant	Not Applicable

1.0 INTRODUCTION

The purpose of this Greenhouse Gas Assessment is to evaluate potential short- and long-term greenhouse gas (GHG) impacts resulting from implementation of the proposed Imperial Avalon project (project) in the City of Carson (City).

1.1 PROJECT LOCATION

The City is located in the South Bay/Harbor area of Los Angeles County, approximately 13 miles south of downtown Los Angeles; refer to Exhibit 1, *Regional Vicinity*. The City consists of 19.2 square miles. The City is surrounded by the City of Los Angeles to the north, southeast, south, and northwest. The City of Compton is located to the northeast and the City of Long Beach is adjacent to the east. Unincorporated Los Angeles County areas are located to the north, east, and southwest.

The project site is located at 21207 South Avalon Boulevard and encompasses approximately 27.31 acres (Assessor's Parcel Numbers [APNs] 7337-001-025, -026, -027, -028, and -029); refer to Exhibit 2, *Site Vicinity*. The site is currently developed with the Imperial Avalon Mobile Estates mobile home park, which consists of 225 mobile home coaches, a recreational vehicle storage yard, and a common area with a clubhouse, grass field, recreation building, swimming pool, and guest parking spaces. Regional access to the site is provided via the San Diego Freeway (Interstate 405 [I-405]) and the Harbor Freeway (Interstate 110 [I-110]); local access is provided via South Avalon Boulevard and East 213th Street.

1.2 PROJECT DESCRIPTION

The project proposes to demolish the existing mobile home park and construct a mixed-use development. The project would construct four multi-story multi-family buildings with public spaces and a townhouse neighborhood; refer to Exhibit 3, *Conceptual Site Plan*. A north-south internal roadway would bisect the two distinct but connected residential areas of the site providing both vehicular and pedestrian access. The project also proposes a pedestrian bridge over the Los Angeles County flood control channel to the north of the project site. The entire community would share the public park spaces and gathering nodes, with walkable paseos connecting the active greenspaces. Utility improvements are proposed along Avalon Boulevard, to the east of the project site. A description of project elements is provided in Table 2, *Project Components*.

Table 2
Project Components

Project Site	1,189,739 square feet | 27.31 acres	
Parcels	7337-001-025; -026; 027; -028; -029	
Area of Proposed Site Uses in Square Feet	Building Area (GBA)	Building Area of Residential Uses: 1,527,694 Building Area of Commercial Uses: 10,352 Building Area of Parking: 647,027 Total Building Area (including parking): 2,185,073
Area of Proposed Site Uses in Square Feet (continued)	Building Area (FAR)	Floor Area Ratio Total Building Area (non-parking floor areas): 1,496,832
Parking	Approximately 2,026 parking spaces and approximately 8 loading spaces (minimum two per multi-family building) would be provided. No subterranean parking levels are being proposed. There would be unbundled parking options for residents and a portion of guest parking to be shared with the 26 commercial spaces provided at Buildings B and C.	
Building Height	Building heights will range from 45 to 90 feet.	
Density	Multifamily – 69.97 du/ac | Townhomes – 24.85 du/ac | Cumulative – 44.4 du/ac	
Floor Area Ratio	1.26:1 (1,496,832 FAR sf / 1,189,739 site area sf)	
Commercial Areas		
Café / Restaurants		
Square Footage (FAR)	10,352	
Parking	26 stalls	
Residential		
Square Footage (FAR)	1,486,480	
Units	1,213 – including 653 non age-restricted multi-family units in Buildings A, B, and D; 180 age-restricted senior independent living units in Building C; and 380 Townhouse units on Lot E.	
Parking	2,026 stalls – including 818 spaces located in individual townhouse garages on Lot E. Multifamily parking ratios by unit type: Studios – 1.25; 1BR – 1.50; 2BR – 1.70 Two stalls per TH unit with 53 surface spaces for guests.	
Mix Unit	Multi-family Buildings A, B, and D: 126 Studios (19%) | 363 1BR (56%) | 164 2BR (25%)	
	Independent Living Senior Building C: 180 total units: 56 Studios | 124 1BR	
	Lot E Townhomes: 192 2BR (51%) | 188 3BR (49%)	

Notes: sf = square feet, FAR = Floor Area Ratio, GBA = Gross Building Area, BR = Bedroom; all measurements, square footages, and building area ratios provided in Table 2 are approximated.

Located at the northeast corner of the project site, **Building A** consists of a four-story wrap building approximately 60 feet tall with some residential units, resident-accessible leasing office, and recreational amenity spaces at the ground level. Building A would contain 202 units comprised of 40 studios, 108 one-bedroom, and 54 two-bedroom units. An at-grade gathering space across from Building B would create visual and pedestrian connections between neighboring buildings and the project's central park. The large interior courtyard space would feature amenities and a swimming pool. Approximately 308 parking spaces would be located at multiple levels within the at- and above-grade parking structure.

Building B would consist of a four-story residential development in a wrap configuration. Building B would be comprised of 206 units consisting of 40 studios, 113 one-bedroom, and 53 two-bedroom units. A large west-facing courtyard would open onto the central park, with a resident leasing office, amenity space, and an approximate 1,890 square foot café bounding the park. At the southeast corner of the building, an approximate 3,200 square foot restaurant will be located at the intersection of Avalon Boulevard and the main project entrance drive. Approximately 315 total parking spaces would be provided with approximately five stalls shared between residential guest and café/restaurant uses. An approximate 21,300 square foot publicly accessible park would bound Building B to the west and be situated adjacent to the café, leasing office, and amenity spaces. An approximate 3,000 square foot dog-park would be apportioned from the central park space to accommodate the growing number of pet owners choosing to reside in highly-amenitized mixed-use developments.

In addition to the three non-age restricted multi-family buildings, **Building C** would provide independent living opportunities for the Senior community. Building C would house three levels of residential units and interior courtyards over two levels of at- and above-grade podium structured parking. At the northeast corner of the Building C, an approximate 5,262 square foot restaurant would be located at the intersection of Avalon Boulevard and the main project entrance drive. Building C would contain 180 age-restricted units comprised of 56 studios and 124 one-bedroom units. Approximately 218 total parking spaces would be provided within the at- and above-grade parking structure with approximately 13 stalls to be shared between the residential guests and restaurant uses.

Building D would house four levels of residential units and multiple interior courtyards over three levels of at- and above-grade podium structured parking. Building D would contain 245 units comprised of 46 studios, 142 one-bedroom, and 57 two-bedroom units. Approximately 367 parking spaces would be provided, along with a resident-accessible leasing office, recreational amenity spaces, and a swimming pool. A generous 17-foot landscaped parkway would act as a buffer to the townhouse portion of the site, while providing for pedestrian circulation and connecting to the central park along the main north-south project roadway.

Lot E would include an approximate 380-unit for-sale townhouse community integrated into the larger community and would provide an appropriate transition to the single-family neighborhoods to the west and south. While accessible from the multi-family portion of the project, the main entry would be off Grace Avenue and would feature a Leasing/Club Fitness Facility that would serve as a focal point for the community. A potential second access point at the northwest corner of the site, also along Grace Avenue, will be evaluated. A lush green belt and pool/recreation facility with a sun deck would be axially aligned with the central open spaces located on the eastern portion of the site. This planning relationship establishes visual connectivity and linkage, reinforcing walkability between the two communities. Within Lot E, walkable paseos are featured with various pedestrian linkages, including to the recreation and pool facility. The townhouse units are arranged to provide convenient access to the paseos, linear park, and recreational pool area.

The residential townhome buildings are three stories and 45 feet in height with direct access to the attached two-car garages. Residential dwelling units within the buildings are two- and three-bedrooms ranging from approximately 1,325 to 1,700 square feet, featuring private patios and decks. The design of the dwelling unit interior spaces has a single-family layout and appearance. On the exterior, architectural massing and articulation of the buildings provide a sensitive transition to the existing single-family homes adjacent to this new community.

Site Access, Parking, and Loading Areas

Main vehicular site access would be provided at a location approximately midway between I-405 and East 213th Street. A new signalized intersection would be constructed in coordination with the entrance to the proposed redevelopment project on the east side of Avalon Boulevard. A secondary right-in/right-out only entrance/exit and fire lane would be located at the southern edge of the site along Avalon, with a tertiary vehicular entrance potentially to originate at East 213th Street and proceed north through the proposed redevelopment of the auto dealership to the south. The main project access point for the Townhouse portion of the project would occur along Grace Avenue, with a potential additional access point located at the northwest corner of the site also along Grace Avenue.

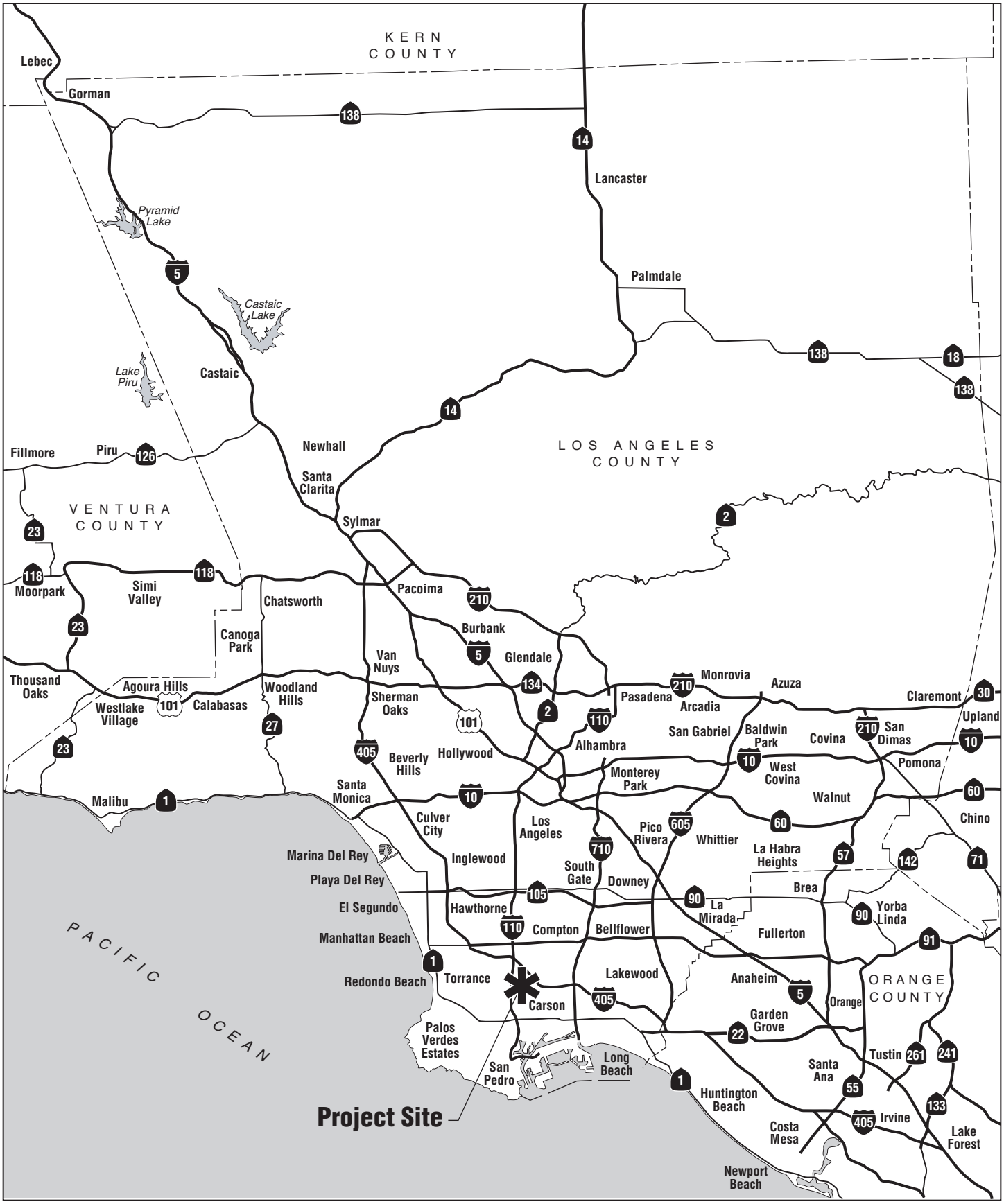
Parking levels would provide majority single parking with limited use of tandem spaces for some larger units where needed, with some provided commercial parking to be shared between residential guests and restaurant/café uses in Buildings B and C. Townhouse parking would be provided in independent two-car garages for all units, with a portion also provided in tandem configurations.

Two temporary loading spaces would be located adjacent to each building (time-signed and shared where parallel parking is provided) as convenient to building elevator use as possible and regulated by management operations.

Imperial Avalon Specific Plan

As a key component of the proposed project, the project applicant proposes the Imperial Avalon Specific Plan (Specific Plan) for the project site. The relatively large size of the site suggests that a specific plan is the proper planning mechanism to describe and codify the development plans. The Specific Plan will codify the development standards, design guidelines and implementation strategies for the project. The uses permitted in the Specific Plan would include residential, commercial, and independent living units for senior residents. The Specific Plan will be consistent with both the Goals and Policies identified in the existing Carson General Plan and the forthcoming updated General Plan.[1]

[1] The City of Carson is currently updating its General Plan with review and approval of key elements coming forward for approvals in 2020/2021.



NOT TO SCALE

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12/19 | JN 175510

GREENHOUSE GAS ASSESSMENT
IMPERIAL AVALON PROJECT

Regional Vicinity

Exhibit 1

Source: Google Earth Pro, 2019

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Project Site

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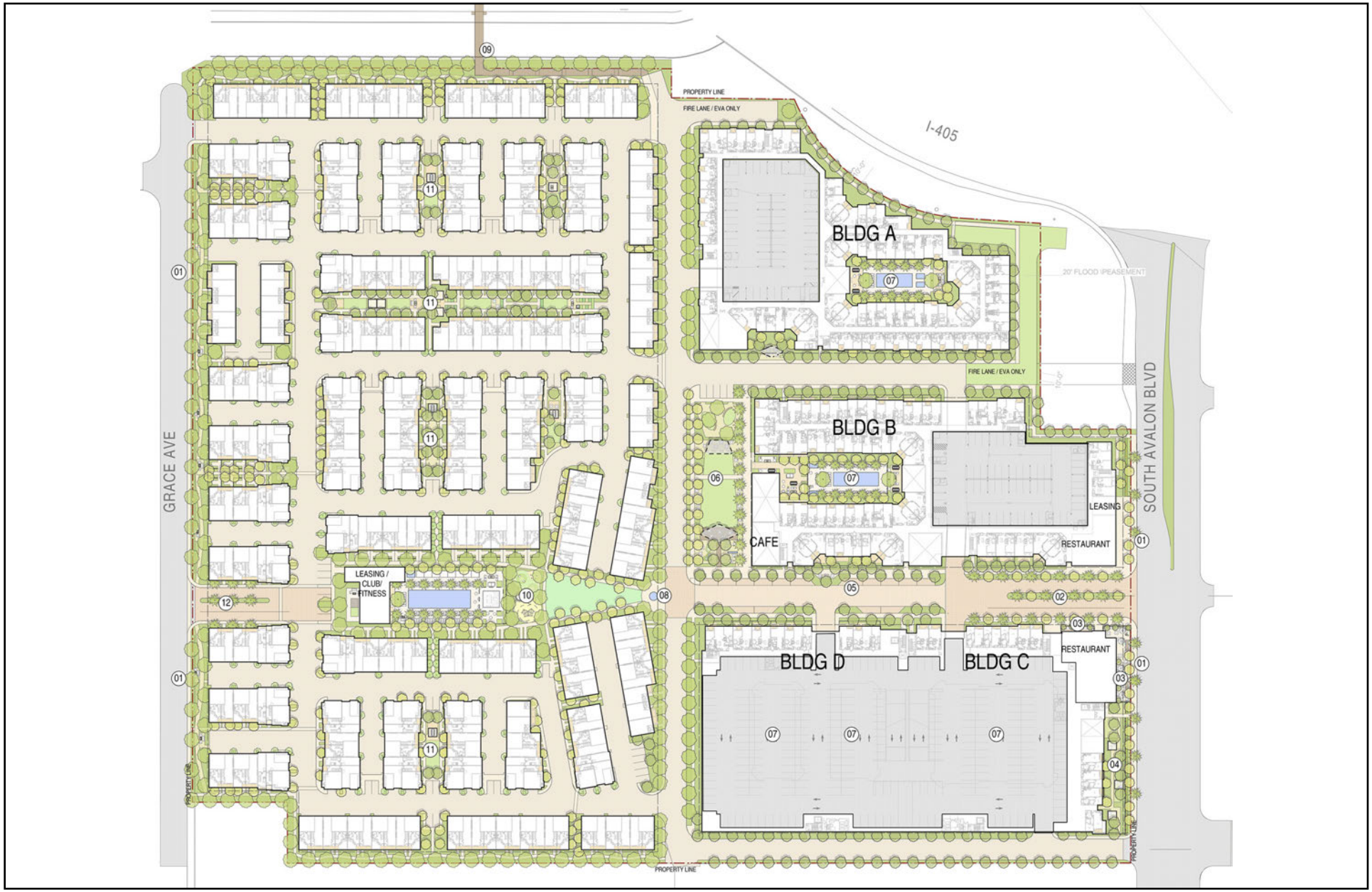
GREENHOUSE GAS ASSESSMENT
IMPERIAL AVALON PROJECT

Site Vicinity

Exhibit 2



Source: Architects Orange, March 2021.

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GREENHOUSE GAS ASSESSMENT
IMPERIAL AVALON PROJECT

Conceptual Site Plan

Exhibit 3

2.0 ENVIRONMENTAL SETTING

The California Air Resources Board (CARB) divides the State into 15 air basins that share similar meteorological and topographical features. The project site lies within the northwestern portion of the South Coast Air Basin (Basin). The Basin is a 6,600 square mile area bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. The Basin includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties, in addition to the San Gorgonio Pass area in Riverside County. The Basin's terrain and geographical location (i.e., a coastal plain with connecting broad valleys and low hills) determine its distinctive climate.

The extent and severity of the air pollution problem in the Basin is a function of the area's natural physical characteristics (weather and topography), as well as man-made influences (development patterns and lifestyle). Factors such as wind, sunlight, temperature, humidity, rainfall, and topography all affect the accumulation and/or dispersion of pollutants throughout the Basin.

2.1 CLIMATE

The general region lies in the semi-permanent high-pressure zone of the eastern Pacific Ocean. As a result, the climate is mild, tempered by cool sea breezes. The climate consists of a semi-arid environment with mild winters, warm summers, moderate temperatures, and comfortable humidity. The typical mild climatological pattern is interrupted infrequently by periods of extremely hot weather, winter storms, or Santa Ana winds. Precipitation is limited to a few winter storms.

The average annual temperature varies little throughout the Basin, averaging 75 degrees Fahrenheit (°F). However, with a less pronounced oceanic influence, the eastern inland portions of the Basin show greater variability in annual minimum and maximum temperatures. All portions of the Basin have had recorded temperatures over 100°F in recent years.

Although the Basin has a semi-arid climate, the air near the surface is moist due to the presence of a shallow marine layer. Except for infrequent periods when dry, continental air is brought into the Basin by offshore winds, the ocean effect is dominant. Periods with heavy fog are frequent, and low stratus clouds, occasionally referred to as "high fog," are a characteristic climate feature. Annual average relative humidity is 70 percent at the coast and 57 percent in the eastern part of the Basin. Precipitation in the Basin is typically nine to 14 inches annually and is rarely in the form of snow or hail due to typically warm weather. The frequency and amount of rainfall is greater in the coastal areas of the Basin.

The height of the inversion is important in determining pollutant concentration. When the inversion is approximately 2,500 feet above sea level, the sea breezes carry the pollutants inland to escape over the mountain slopes or through the passes. At a height of 1,200 feet, the terrain prevents the pollutants from entering the upper atmosphere, resulting in a settlement in the

foothill communities. Below 1,200 feet, the inversion puts a tight lid on pollutants, concentrating them in a shallow layer over the entire coastal basin. Usually, inversions are lower before sunrise than during the day. Mixing heights for inversions are lower in the summer and more persistent, being partly responsible for the high levels of ozone (O_3) observed during summer months in the Basin. Smog in southern California is generally the result of these temperature inversions combining with coastal day winds and local mountains to contain the pollutants for long periods of time, allowing them to form secondary pollutants by reacting with sunlight. The Basin has a limited ability to disperse these pollutants due to typically low wind speeds.

The area in which the project is located offers clear skies and sunshine, yet is still susceptible to air inversions. These inversions trap a layer of stagnant air near the ground, where it is then further loaded with pollutants. These inversions cause haziness, which is caused by moisture, suspended dust, and a variety of chemical aerosols emitted by trucks, automobiles, furnaces, and other sources.

The City experiences average high temperatures of up to 79˚F during the month of August, and average low temperatures of 49˚F during the month of December. Carson experiences an average of approximately 1.1 inches of precipitation per month, with the most precipitation occurring in the month of January.[2]

[2] Weather Spark, *Average Weather in Carson, California, United States*, https://weatherspark.com/y/1618/Average-Weather-in-Carson-California-United-States-Year-Round, accessed November 18, 2020.

3.0 GLOBAL CLIMATE CHANGE

The natural process through which heat is retained in the troposphere[3] is called the "greenhouse effect." The greenhouse effect traps heat in the troposphere through a three-fold process: short wave radiation emitted by the Sun is absorbed by the Earth; the Earth emits a portion of this energy in the form of long wave radiation; and GHG in the upper atmosphere absorb this long wave radiation and emit this long wave radiation into space and back towards the Earth. This "trapping" of the long wave (thermal) radiation emitted back towards the Earth is the underlying process of the greenhouse effect.

The most abundant GHGs are water vapor (H_2O) and carbon dioxide (CO_2). Many other trace gases have greater ability to absorb and re-radiate long wave radiation; however, these gases are not as plentiful. For this reason, and to gauge the potency of GHGs, scientists have established a global warming potential (GWP) for each GHG based on its ability to absorb and re-radiate long wave radiation.

GHGs normally associated with a project include:[4]

Water Vapor. Although H_2O has not received the scrutiny of other GHGs, it is the primary contributor to the greenhouse effect. Natural processes, such as evaporation from oceans and rivers, and transpiration from plants, contribute 90 percent and 10 percent of the H_2O in our atmosphere, respectively. The primary human related source of H_2O comes from fuel combustion in motor vehicles; however, it does not contribute a significant amount (less than one percent) to atmospheric concentrations of H_2O. The Intergovernmental Panel on Climate Change (IPCC) has not determined a GWP for H_2O.

Carbon Dioxide. CO_2 is primarily generated by fossil fuel combustion in stationary and mobile sources. Due to the emergence of industrial facilities and mobile sources in the past 250 years, CO_2 emissions from fossil fuel combustion increased by a total of 6.2 percent between 1990 and 2018.[5] CO_2 is the most widely emitted GHG and is the reference gas (GWP of 1) for determining GWPs for other GHGs.

Methane (CH_4). CH_4 is emitted from biogenic sources, incomplete combustion in forest fires, landfills, manure management, and leaks in natural gas pipelines. The United States' top three CH_4 sources are landfills, natural gas systems, and enteric fermentation. CH_4 is the primary component of natural gas used for space and water heating, steam production, and power generation. CH_4 is estimated to have a GWP of 28–36.

[3] The troposphere is the bottom layer of the atmosphere, which varies in height from the Earth's surface from ten to 12 kilometers.

[4] All GWPs are given as 100-year GWP. Unless noted otherwise, all GWPs were obtained from the Intergovernmental Panel on Climate Change's Fifth Assessment Report, published in 2014.

[5] United States Environmental Protection Agency, *Inventory of United States Greenhouse Gas Emissions and Sinks 1990 to 2018*, April 13, 2020.

Nitrous Oxide (N_2O). N_2O is produced by both natural and human related sources. Primary human related sources include agricultural soil management, animal manure management, sewage treatment, mobile and stationary combustion of fossil fuels, adipic acid production, and nitric acid production. N_2O is estimated to have a GWP of 265-298.

4.0 REGULATORY SETTING

4.1 FEDERAL

To date, no national standards have been established for the nationwide GHG reduction targets, nor have any regulations or legislation been enacted specifically to address climate change and GHG emissions reduction at the project level. Various efforts have been promulgated at the Federal level to improve fuel economy and energy efficiency to address climate change and its associated effects.

U.S. Environmental Protection Agency Endangerment Finding. The U.S. Environmental Protection Agency (EPA) authority to regulate GHG emissions stems from the U.S. Supreme Court decision in *Massachusetts v. EPA* (2007). The Supreme Court ruled that GHGs meet the definition of air pollutants under the existing Federal Clean Air Act (FCAA) and must be regulated if these gases could be reasonably anticipated to endanger public health or welfare. Responding to the Court's ruling, the EPA finalized an endangerment finding in December 2009. Based on scientific evidence, the EPA found that six GHGs (CO_2, CH_4, N_2O, hydrofluorocarbons [HFCs], perfluorocarbons [PFCs], and sulfur hexafluoride [SF_6]) constitute a threat to public health and welfare.

4.2 STATE

Various Statewide and local initiatives to reduce the State's contribution to GHG emissions have raised awareness that, even though the various contributors to and consequences of global climate change are not yet fully understood, global climate change is under way, and there is a real potential for severe, long-term, adverse environmental, social, and economic effects. Every nation emits GHGs and, as a result, makes an incremental cumulative contribution to global climate change. Therefore, global cooperation is necessary to reduce the rate of GHG emissions enough to slow or stop the human-caused increase in average global temperatures and associated changes in climatic conditions.

Executive Order S-3-05. Executive Order (EO) S-3-05 set forth the following series of target dates by which Statewide emissions of GHGs are required to be progressively reduced:

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

EO S-3-05 directed the Secretary of the California Environmental Protection Agency (Cal/EPA) to coordinate a multi-agency effort to reduce GHG emissions to the target levels. The Secretary also submits biannual reports to the Governor and California Legislature describing the progress made toward the emissions targets, the impacts of global climate change on California's resources, and mitigation and adaptation plans to combat these impacts. To comply with the

executive order, the Secretary of Cal/EPA created the California Climate Action Team (CAT), made up of members from various State agencies and commissions. The team released its first report in March 2006. The report proposed to achieve the targets by building on the voluntary actions of California businesses, local governments, and communities and through State incentive and regulatory programs.

Executive Order B-55-18. EO B-55-18 (September 2018) establishes a Statewide policy for the State to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter. The goal is an addition to the existing Statewide targets of reducing the State's GHG emissions. CARB will work with relevant State agencies to ensure that future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal.

Senate Bill 32. Signed into law on September 2016, SB 32 codifies the 2030 GHG reduction target in EO B-30-15 (40 percent below 1990 levels by 2030). SB 32 authorizes CARB to adopt an interim GHG emissions level target to be achieved by 2030.

Executive Order S-13-08. Executive Order S-13-08 seeks to enhance the State's management of climate impacts including sea level rise, increased temperatures, shifting precipitation, and extreme weather events by facilitating the development of the State's first climate adaptation strategy. This Executive Order results in consistent guidance from experts on how to address climate change impacts in the State of California.

Assembly Bill 32. California passed the California Global Warming Solutions Act of 2006 (AB 32; California Health and Safety Code Division 25.5, Sections 38500-38599). AB 32 establishes regulatory, reporting, and market mechanisms to achieve quantifiable reductions in GHG emissions and establishes a cap on Statewide GHG emissions. AB 32 requires that Statewide GHG emissions be reduced to 1990 levels by 2020.

Assembly Bill 1493. AB 1493 (also known as the Pavley Bill) requires that CARB develop and adopt, by January 1, 2005, regulations that achieve "the maximum feasible reduction of GHG emitted by passenger vehicles and light-duty trucks and other vehicles determined by CARB to be vehicles whose primary use is noncommercial personal transportation in the State." To meet the requirements of AB 1493, CARB approved amendments to the California Code of Regulations (CCR) in 2004 by adding GHG emissions standards to California's existing standards for motor vehicle emissions. Amendments to CCR Title 13, Sections 1900 and 1961 and adoption of 13 CCR Section 1961.1 require automobile manufacturers to meet fleet-average GHG emissions limits for all passenger cars, light-duty trucks within various weight criteria, and medium-duty weight classes for passenger vehicles (i.e., any medium-duty vehicle with a gross vehicle weight rating less than 10,000 pounds that is designed primarily to transport people), beginning with the 2009 model year. Emissions limits are reduced further in each model year through 2016. The near-term standards were intended to achieve a reduction of about 22 percent in GHG emissions compared to the emissions from the 2002 fleet, while the mid-term standards were intended to achieve a reduction of about 30 percent.

Senate Bill 100. Senate Bill (SB) 100 (Chapter 312, Statutes of 2018) requires that retail sellers and local publicly owned electric utilities procure a minimum quantity of electricity products from eligible renewable energy resources so that the total kilowatt-hours (kWh) of those products sold to their retail end-use customers achieve 44 percent of retail sales by December 31, 2024, 52 percent by December 31, 2027, 60 percent by December 31, 2030, and 100 percent by December 31, 2045. The bill would require the California Public Utilities Commission (CPUC), CEC, state board, and all other state agencies to incorporate that policy into all relevant planning. In addition, SB 100 would require the CPUC, CEC, and state board to utilize programs authorized under existing statutes to achieve that policy and, as part of a public process, issue a joint report to the Legislature by January 1, 2021, and every 4 years thereafter, that includes specified information relating to the implementation of the policy.

Senate Bill 375. SB 375, signed in September 2008 (Chapter 728, Statutes of 2008), aligns regional transportation planning efforts, regional GHG reduction targets, and land use and housing allocation. SB 375 requires Metropolitan Planning Organizations (MPOs) to adopt a sustainable communities strategy (SCS) or alternative planning strategy (APS) that prescribe land use allocation in that MPO's regional transportation plan. CARB, in consultation with MPOs, provide each affected region with GHG reduction targets emitted by passenger cars and light trucks in the region for the years 2020 and 2035. These reduction targets are updated every eight years but can be updated every four years if advancements in emissions technologies affect the reduction strategies to achieve the targets. CARB is also charged with reviewing each MPO's SCS or APS for consistency with its assigned targets.

CARB Scoping Plan. On December 11, 2008, CARB adopted its Scoping Plan, which functions as a roadmap to achieve the State's GHG reduction targets required by AB 32 through subsequently enacted regulations. The Scoping Plan contains the main strategies California would implement to reduce projected 2020 "Business as Usual" (BAU) emissions to 1990 levels, as required by AB 32. These strategies are intended to reduce CO_2e[6] emissions by 174 million metric tons (MT). This reduction of 42 million $MTCO_2e$, or almost ten percent from 2002 to 2004 average emissions, would be required despite the population and economic growth forecasted through 2020.

The Scoping Plan calculates 2020 BAU emissions as those expected to occur in the absence of any GHG reduction measures. The 2020 BAU emissions estimate was derived by projecting emissions from a past baseline year using growth factors specific to each of the different economic sectors (e.g., transportation, electrical power, commercial, residential, and industrial). CARB used three-year average emissions, by sector, for 2002 to 2004 to forecast emissions to 2020. When the Scoping Plan process was initiated, 2004 was the most recent year for which actual data was available. The measures described in the Scoping Plan are intended to reduce projected 2020 BAU emissions to 1990 levels, as required by AB 32.

[6] Carbon Dioxide Equivalent (CO_2e) - A metric measure used to compare the emissions from various greenhouse gases based upon their GWP.

AB 32 requires CARB to update the Scoping Plan at least once every five years. CARB adopted the First Update to the Scoping Plan on May 22, 2014. The First Update of the Scoping Plan (2014 Scoping Plan) summarizes recent science related to climate change, including anticipated impacts to California and the levels of GHG reduction necessary to likely avoid risking irreparable damage. It identifies the actions California has already taken to reduce GHG emissions and focuses on areas where further reductions could be achieved to help meet the 2020 target established by AB 32. The 2014 Scoping Plan also looks beyond 2020 toward the 2050 goal, established in EO S-3-05, and observes that "a mid-term statewide emission limit will ensure that the State stays on course to meet our long-term goal." The 2014 Scoping Plan did not establish or propose any specific post-2020 goals, but identified goals related to water, waste, natural resources, clean energy, transportation, and land use.

On January 20, 2017, CARB released the proposed Second Update to the Scoping Plan (2017 Scoping Plan), which identifies the State's post-2020 reduction strategy. The 2017 Scoping Plan was approved on December 14, 2017 and reflects the 2030 target of a 40-percent reduction below 1990 levels, set by EO B-30-15 and codified by SB 32.[7] The 2017 Scoping Plan establishes a new emissions limit of 260 million $MTCO_2e$ for the year 2030, which corresponds to a 40-percent decrease in 1990 levels by 2030.

Executive Order S-1-07. Executive Order S-1-07 proclaims that the transportation sector is the main source of GHG emissions in California, generating more than 40 percent of statewide emissions. It establishes a goal to reduce the carbon intensity of transportation fuels sold in California by at least ten percent by 2020. This order also directs CARB to determine whether this Low Carbon Fuel Standard (LCFS) could be adopted as a discrete early-action measure as part of the effort to meet the mandates in AB 32. The development of the 2017 Scoping Plan Update has identified the LCFS as a regulatory measure to reduce GHG emissions to meet the 2030 emissions target. In calculating statewide emissions and targets, the 2017 Scoping Plan Update has assumed the LCFS be extended to an 18-percent reduction in carbon intensity beyond 2020. On September 27, 2018, CARB approved a rulemaking package that amended the Low Carbon Fuel Standard to relax the 2020 carbon intensity reduction from 10 percent to 7.5 percent and to require a carbon intensity reduction of 20 percent by 2030.

4.3 REGIONAL

Southern California Association of Governments. On September 3, 2020, the Regional Council of SCAG formally adopted *The 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy of the Southern California Association of Governments – Connect SoCal* (2020–2045 RTP/SCS). The SCS portion of the 2020-2045 RTP/SCS highlights strategies for the region to reach the regional target of reducing GHGs from autos and light-duty trucks by 8 percent per capita by 2020, and 19 percent by 2035 (compared to 2005 levels). Specially, these strategies are:

[7] California Air Resources Board, *California's 2017 Climate Change Scoping Plan*, November 2017, https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf, accessed June 2, 2021.

- Focus growth near destinations and mobility options;
- Promote diverse housing choices;
- Leverage technology innovations;
- Support implementation of sustainability policies; and
- Promote a green region.

Furthermore, the 2020-2045 RTP/SCS discusses a variety of land use tools to help achieve the state-mandated reductions in GHG emissions through reduced per capita vehicle miles traveled (VMT). Some of these tools include center focused placemaking, focusing on priority growth areas, job centers, transit priority areas, as well as high quality transit areas and green regions.

4.4 LOCAL

4.4.1 CITY OF CARSON

Climate Action Plan. In December 2017, the City adopted the *City of Carson Climate Action Plan* (CAP). The CAP was created in partnership with the South Bay Cities Council of Governments and Southern California Edison (SCE) and was prepared to follow the guidance of California's *Long Term Energy Efficiency Strategic Plan*. The CAP identifies a comprehensive set of electricity-related energy efficiency targets, goals, policies, and actions to help the community and the City become more energy efficient. The CAP also provides policies and actions to assist with the implementation of energy efficiency strategies and summarizes the policies, benefits, implementation time frame, and responsible departments for implementing the components of each energy efficiency strategy. The CAP's energy reduction targets will set the groundwork for any GHG reduction targets found in a future climate action plan; however, the City has not yet adopted a qualified GHG reduction plan under CEQA that the proposed project would be able to tier from.

5.0 POTENTIAL GREENHOUSE GAS IMPACTS

5.1 CEQA THRESHOLDS

Appendix G of the CEQA Guidelines contains the Environmental Checklist form that was used during the preparation of this study. Accordingly, a project may create a significant environmental impact if it causes one or more of the following to occur:

- Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment (refer to Impact Statement GHG-1); and

- Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases (refer to Impact Statement GHG-2).

Based on these standards and thresholds, the effects of the proposed project have been categorized as either a "less than significant impact" or a "potentially significant impact." Mitigation measures are recommended for potentially significant impacts.

GREENHOUSE GAS EMISSIONS THRESHOLDS

Amendments to CEQA Guidelines Section 15064.4 were adopted to assist lead agencies in determining the significance of the impacts of GHG emissions. Consistent with existing CEQA practice, Section 15064.4 gives lead agencies the discretion to determine whether to assess those emissions quantitatively or qualitatively. This section recommends certain factors to be considered in the determination of significance (i.e., the extent to which a project may increase or reduce GHG emissions compared to the existing environment; whether the project exceeds an applicable significance threshold; and the extent to which the project complies with regulations or requirements adopted to implement a plan for the reduction or mitigation of GHGs). The amendments do not establish a quantified or performance-based threshold of significance; rather, lead agencies are granted discretion to establish significance thresholds for their respective jurisdictions, including looking to thresholds developed by other public agencies or suggested by other experts, such as the California Air Pollution Control Officers Association (CAPCOA), so long as any threshold chosen is supported by substantial evidence (see CEQA Guidelines Section 15064.7(c)).

The California Natural Resources Agency (CNRA) has also clarified that the CEQA Guidelines amendments focus on the effects of GHG emissions as cumulative impacts, and therefore GHG emissions should be analyzed in the context of CEQA's requirements for cumulative impact analyses (see CEQA Guidelines Section 15064(h)(3)).[8] A project's incremental contribution to a

[8] See Generally California Natural Resources Agency, *Final Statement of Reasons for Regulatory Action (December 2009), pp. 11-13, 14, 16*; see also Letter from Cynthia Bryant, Director of the Office of Planning and Research to Mike Chrisman, secretary for Natural Resources, April 13, 2009. Available at https://planning.lacity.org/eir/CrossroadsHwd/deir/files/references/C01.pdf, accessed September 14, 2020.

cumulative impact can be found not cumulatively considerable if the project would comply with an approved plan or mitigation program that provides specific requirements to avoid or substantially lessen the cumulative problem within the geographic area of the project.[9]

While the City has a CAP, the City has not adopted a numerical significance threshold for assessing impacts related to GHG emissions, nor have the South Coast Air Quality Management District (SCAQMD), CARB, or any other state or regional agency adopted a numerical significance threshold for assessing GHG emissions that is applicable to the project. Since there is no applicable adopted or accepted numerical threshold of significance for GHG emissions, the methodology for evaluating the project's impacts related to GHG emissions focuses on its consistency with statewide, regional, and local plans adopted for the purpose of reducing and/or mitigating GHG emissions. This evaluation of consistency with such plans is the sole basis for determining the significance of the project's GHG-related impacts on the environment.

Notwithstanding, for informational purposes, the analysis also calculates the amount of GHG emissions that would be attributable to the project using recommended air quality models, as described below. The primary purpose of quantifying the project's GHG emissions is to satisfy State CEQA Guidelines Section 15064.4(a), which calls for a good-faith effort to describe and calculate emissions. The estimated emissions inventory is also used to determine if there would be a reduction in the project's incremental contribution of GHG emissions as a result of compliance with regulations and requirements adopted to implement plans for the reduction or mitigation of GHG emissions. However, the significance of the project's GHG emissions impacts is not based on the amount of GHG emissions resulting from the project.

5.2 IMPACT ANALYSES

GHG-1 GENERATE GREENHOUSE GAS EMISSIONS, EITHER DIRECTLY OR INDIRECTLY, THAT MAY HAVE A SIGNIFICANT IMPACT ON THE ENVIRONMENT?

GHG-2 CONFLICT WITH AN APPLICABLE PLAN, POLICY, OR REGULATION ADOPTED FOR THE PURPOSE OF REDUCING THE EMISSIONS OF GREENHOUSE GASES?

PROJECT-RELATED SOURCES OF GREENHOUSE GASES

Project-related GHG emissions would include emissions from direct and indirect sources. The proposed project would result in direct and indirect emissions of CO_2, N_2O, and CH_4, and would not result in other GHGs that would facilitate a meaningful analysis. Therefore, this analysis focuses on these three forms of GHG emissions. Direct project-related GHG emissions include emissions from construction activities, area sources, and mobile sources, while indirect sources

[9] 14 CCR Section 15064(h)(3).

include emissions from electricity consumption, water demand, and solid waste generation. Analysis of mobile emissions is based primarily upon the *Imperial Avalon Local Transportation Assessment* (Transportation Assessment) prepared by Fehr and Peers (dated July 16, 2021). California Emissions Estimator Model Version 2016.3.2 (CalEEMod) relies upon trip data within the project's Transportation Assessment and project specific land use data to calculate emissions. Vehicle emission factors were taken from CARB's 2017 EMission FACtor (EMFAC2017) model and incorporated into CalEEMod.

Existing GHG Emissions

The existing project site is currently developed with the Imperial Avalon Mobile Estates mobile home park, which consists of 225 mobile home coaches, a recreational vehicle storage yard, and a common area with a clubhouse, grass field, recreation building, swimming pool, and guest parking spaces. A CalEEMod model run was conducted to quantify the existing GHG emissions from the Imperial Avalon Mobile Estates mobile home park; refer to Appendix A, *Greenhouse Gas Emissions Data*. Trip generation rates associated with the existing use were based on the Transportation Assessment. According to the Transportation Assessment, the existing project site generates approximately 1,141 mobile daily trips.

Project GHG Emissions

The proposed project would construct a mixed-use development consisting of approximately 10,352 square feet of café/restaurant space and 1,213 residential units, as well as residential amenities and open space areas; refer to Table 2. Table 3, *Annual Greenhouse Gas Emissions*, presents the GHG emissions from the existing use, the proposed project, and the project's net increase of GHG emissions from the existing use. The net operation emissions were calculated by subtracting the existing use emissions from the proposed project emissions. Project GHG emissions were calculated using CalEEMod and an EMFAC2017 for the project's 2027 opening year. The proposed project would include GHG emission reductions from the most current building energy efficiency standards, the 2019 Title 24 building code and the 2019 California Green Building Standards Code (CALGreen). Compliance with Title 24 and CALGreen standards would ensure the project incorporates photovoltaic solar panels, energy efficient windows, insulation, lighting, ventilation systems, as well as water efficient fixtures and electric vehicles charging infrastructure. Table 3, presents the estimated existing and proposed project's CO_2, N_2O, and CH_4 emissions. CalEEMod outputs are contained within Appendix A.

Table 3
Annual Greenhouse Gas Emissions

Source	CO_2	CH_4		N_2O		Total Metric Tons of CO_2e
	Metric Tons/year[1]	Metric Tons/year[1]	Metric Tons of CO_2e[2]	Metric Tons/year[1]	Metric Tons of CO_2e[2]	
EXISTING CONDITIONS[4,5,7]						
Direct Emissions						
• Area Source	52.42	<0.01	0.12	<0.01	0.27	52.80
• Mobile Source	1,285.94	0.10	2.39	<0.01	<0.01	1,288.33
Total Direct Emissions[3,5]	***1,338.36***	***0.10***	***2.50***	***<0.01***	***0.27***	***1,341.13***
Indirect Emissions						
• Energy	364.83	0.02	0.43	<0.01	1.39	366.65
• Solid Waste	21.01	1.24	31.04	<0.01	<0.01	52.05
• Water Demand	75.76	0.48	12.04	0.01	3.61	91.39
Total indirect Emissions[3,5]	***461.60***	***1.74***	***43.51***	***0.01***	***5.00***	***510.09***
Total Existing Emissions[3]	***1,851.22 $MTCO_2e$/year***					
PROPOSED PROJECT GHG EMISSIONS[4,7]						
Direct Emissions						
• Construction (amortized over 30 years)	501.87	0.04	0.98	<0.01	<0.01	502.85
• Area Source[6]	282.63	0.02	0.62	<0.01	1.43	284.68
• Mobile Source	7,231.55	0.48	12.03	<0.01	<0.01	7,243.58
Total Direct Emissions[3,5]	***8,016.04***	***0.55***	***13.63***	***0.00***	***1.43***	***8,031.11***
Indirect Emissions						
• Energy[8]	2,321.18	0.11	2.65	0.03	8.97	2,332.81
• Solid Waste	69.27	4.09	102.35	0.00	0.00	171.62
• Water Demand[9]	441.25	2.74	68.47	0.07	20.50	530.22
Total Indirect Emissions[3]	***2,831.70***	***6.94***	***173.47***	***0.10***	***29.47***	***3,034.65***
Total Project-Related Emissions[3]	***11,065.75 $MTCO_2e$/year***					
Total Net Project Emissions[6]	***9,214.53 $MTCO_2e$/year***					

Notes:

1. Emissions calculated using California Emissions Estimator Model Version 2016.3.2 (CalEEMod) computer model and EMFAC2017.
2. CO_2 Equivalent values calculated using the EPA Website, *Greenhouse Gas Equivalencies Calculator*, http://www.epa.gov/cleanenergy/energy-resources/calculator.html, accessed November 2020.
3. Totals may be slightly off due to rounding.
4. This analysis compared GHG emissions from the existing on-site land use and the proposed project buildout.
5. Existing on-site emissions do not include construction as the exiting on-site use is currently built and operational.
6. The total Net Project Emissions represents the net increase in 'mitigated' GHG emissions from existing conditions (11,065.75 $MTCO_2e$/year – 1,851.22 $MTCO_2e$/year = 9,214.53 $MTCO_2e$/year).
7. Emission reductions applied in the CalEEMod model, or 'mitigated emissions', include regulatory requirements such as compliance with the 2019 Title 24 Building Standards Code and the 2019 CALGreen Code. The 2019 Title 24 Building Standards Code and the 2019 CALGreen Code would only apply to future development (i.e. proposed project) and not existing on-site uses. These mandatory regulatory requirements would include high efficiency lighting, low flow plumbing fixtures, solid waste diversion, and electricity from renewable energy sources.
8. As of 2019, SCE was delivering 48% carbon-free power to customers. California has set Renewables Portfolio Standard (RPS) targets that require California retail sellers of electricity to provide 60% of electricity sales from renewable resources by 2030. As such, by 2027 SCE would deliver 57% carbon-free power to customers. Therefore, by using the 2019 intensity factor, emissions generated by electricity are approximately 9% more conservative than utilizing the 2027 factor.
   Source: Southern California Edison, *Edison International Sustainability Report 2019*, https://www.edison.com/content/dam/eix/documents/sustainability/eix-2019-sustainability-report.pdf, accessed February 19, 2021.
9. To provide a conservative analysis, the water demand emissions represent the 'unmitigated' emissions in Appendix A which do not account for the GHG reductions associated with the CALGreen Code requirements.

Refer to Appendix A, for detailed model input/output data.

Direct Project-Related Sources of Greenhouse Gases

Construction Emissions

Construction GHG emissions are typically summed and amortized over the lifetime of the project (assumed to be 30 years), then added to the operational emissions.[10] As shown in Table 3, the proposed project would result in 502.85 $MTCO_2e$/year (amortized over 30 years), which represents a total of 15,085.40 $MTCO_2e$ from construction activities.

Area Source

Area source emissions were calculated using CalEEMod and project-specific land use data. Project-related area sources include exhaust emissions from landscape maintenance equipment, such as lawnmowers, shedders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the site. As noted in Table 3, the proposed project would result in 284.68 $MTCO_2e$/year of area source GHG emissions, while the existing conditions result in 52.80 $MTCO_2e$/year. As such, the proposed project would have a net increase of 231.88 $MTCO_2e$/year of area source GHG emissions.

Mobile Source

According to the Transportation Assessment, the proposed project would generate 6,727 daily trips. Compared to the existing conditions, this would represent a net increase of 5,586 daily trips. Based on the proposed project-generated daily vehicle trips, the proposed project would result in approximately 7,243.58 $MTCO_2e$/year of mobile source-generated GHG emissions; refer to Table 3. As seen in Table 3, existing conditions result in approximately 1,288.33 $MTCO_2e$/year of mobile source generated GHG emissions. Thus, the project would cause an increase of approximately 5,955.25 $MTCO_2e$/year from mobile emissions. Further, as shown in Table 3, the predominant source of the proposed project GHG emissions would come from mobile emissions. It should be noted that neither the lead agency, nor the project applicant has authority to control the rates of GHG emissions from vehicles that would travel to and from the project site.

Indirect Project-Related Sources of Greenhouse Gases

Energy Consumption

Energy consumption emissions were calculated using the CalEEMod model and project specific land use data. On-site electricity would be provided by Southern California Edison (SCE). As shown in Table 3, the project would indirectly result in 2,332.81 $MTCO_2e$/year GHG emissions due to energy consumption, while existing conditions would result in 366.65 $MTCO_2e$/year. Thus,

[10] The project lifetime is based on the standard 30-year assumption of the South Coast Air Quality Management District (http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-13/ghg-meeting-13-minutes.pdf?sfvrsn=2).

the project would cause an increase of approximately 1,966.16 $MTCO_2e$/year from energy consumption.

Solid Waste

Solid waste emissions associated with operations of the proposed project were calculated using CalEEMod and project-specific land use data. Per AB 341, the project would be required to reduce, recycle, or compost 75 percent of the solid waste generated by the year 2020. To provide a conservative analysis, a 50 percent reduction in solid waste was modeled in the CalEEMod. Table 3 shows the project's operational solid waste emissions, which would result in 171.62 $MTCO_2e$/year, while existing conditions would result in 52.05 $MTCO_2e$/year. Thus, the proposed project would result in a net GHG emissions increase from solid waste of 119.57 $MTCO_2e$/year.

Water Demand

The project would be required to comply with the CALGreen Code, which requires newer developments to be fitted with low flow plumbing fixtures and fittings, as well as water-efficient landscaping. However, to provide a conservative analysis the water demand emissions shown in Table 3 do not account for the GHG reductions associated with the CALGreen Code requirements. As such, the project is anticipated to consume approximately 139.80 million gallons of water per year, resulting in 530.22 $MTCO_2e$/year. Under existing conditions, the current on-site use consumes approximately 23.89 million gallons of water per year, resulting in 91.39 $MTCO_2e$/year. Therefore, the proposed project would consume a net increase of 115.91 million gallons of water when compared to existing conditions. While the proposed project would increase water demand, future distribution of water would have a lower carbon footprint due to SB 100 and SCE's production of renewable energy. As such, the proposed project would result in an increase of approximately 438.83 $MTCO_2e$/year from water demand.

Total Project-Related Sources of Greenhouse Gases

As shown in Table 3, the total amount of project related operational GHG emissions from direct and indirect sources combined, minus the existing use GHG emissions, would be approximately 9,214.53 $MTCO_2e$/year.

GHG PLAN CONSISTENCY

The following discussion analyzes the project's consistency with the City's CAP, 2020-2045 RTP/SCS, and 2017 Scoping Plan. As previously noted, the CAP is not a qualified GHG reduction plan under CEQA that the proposed project would be able to tier from and the City has not yet adopted a such plan. Therefore, the project's consistency with the CAP has been included for informational purposes only.

City of Carson Climate Action Plan

In 2017, the City, in cooperation with the South Bay Cities Council of Governments (SBCCOG), developed an unqualified CAP. The CAP serves as a guide for action by setting GHG emission reductions goals and establishes strategies and policy to achieve outcomes over the next 20 years. The project's consistency with CAP measures is discussed in Table 4, *Project Consistency with CAP*.

Table 4
Project Consistency with CAP

Goal	Measure	Project Compliance
Goal LUT: A – Accelerate the Market for EV Vehicles	**Measure LUT: A2 – EV Charging Policies.** EV charging policies incentivize EV adoption by making it easier to charge EVs. City strategies to support these policies can range from on-the-ground implementation of charging stations (level 1, 2, and DC 3) to adopting new development standards relating to EVs.	**Consistent.** The project would be consistent with this measure by supporting the use of electric vehicles (EVs). Per the 2019 CALGreen Residential Mandatory Measure 4.106.4 and Nonresidential Mandatory Measure 5.106.5, the project would be required to install EV charging spaces, EV parking spaces, and EV conduits (townhome garages only).
Goal LUT: G – Land Use Strategies	**Measure EE: G1 – Increase Density.** These strategies seek to increase destination accessibility by encouraging combined uses such as office, commercial, institutional, and residential within areas and developments.	**Consistent.** The project includes 1,527,694 square feet of residential uses (high-density multi-family buildings and townhomes), as well as 10,352 square feet of café and restaurant space. As a high-density mixed-use infill project, the project would comply with this CAP measure.
	Measure EE: G2 – Increase Diversity. These strategies encourage projects to mix uses such as office, commercial, institutional, and residential within the same development.	**Consistent.** The project would consist of a residential and commercial mixed-use development in a highly urbanized area. Refer to Measure EE: G1 Response for further analysis.
Goal EE: B – Increase Energy Efficiency in New Residential Developments	**Measure EE: B1 – Encourage or require EE Standards Exceeding Title 24.** As part of the 2010 California Green Building Standards (CALGreen), a two-tiered system was designed to allow local jurisdictions to adopt codes that go beyond state standards. The two tiers contain measures that are more stringent and achieve an increased reduction in energy usage by 15% (Tier 1) or 30% (Tier 2) beyond Title 24. It is also important that Title 24 Standards are updated so that the full GHG reduction benefit of the title can be realized. City staff that are well-informed can implement updates quickly and effectively.	**Consistent.** It should be noted that the 2016 CALGreen and Title 24 standards were effective when the CAP was adopted. Since then, the 2019 CALGreen and Title 24 standards were adopted. Therefore, the project would comply with the 2019 CALGreen and Title 24 standards. The 2019 Title 24 standards, which took effect on January 1, 2020, promote photovoltaic systems in newly constructed residential buildings. With rooftop solar electricity generation, homes built under the 2019 standards will use about 53 percent less energy than those under the 2016 standards. Additionally, nonresidential buildings will use about 30 percent less energy, mainly to lighting upgrades, when compared to 2016 standards.[1]

Table 4 (Continued)
Project Consistency with CAP

Goal	Measure	Project Compliance
Goal EE: D – Increase Energy Efficiency in New Commercial Developments	**Measure EE: D1 – Encourage or require EE Standards Exceeding Title 24.** This measure will develop City staff to be resources in encouraging and implementing energy efficiency beyond that are required by current Title 24 Standards for commercial development. In addition, this measure helps ensure that Title 24 Standards are updated.	**Consistent.** Refer to Measure EE: B1 response, above.
Goal EE: E. – Increase Energy Efficiency through Water Efficiency (WE)	**Measure EE: E1 – Promote or Require Water Efficiency through SB X7-7.** **Measure EE: E2 – Promoting Water Efficiency Standards Exceeding SB X7-7.**	**Consistent.** The project would consume water from water suppliers that would comply with Senate Bill X7-7 and the Water Sector of the AB 32 Scoping Plan. In addition, the project's irrigation systems would be controlled by an evapotranspiration weather-based control system to minimize water usage and reduce irrigation runoff. Further, the project would comply with outdoor water conservation measures outlined per California water regulations (AB 1881) and local water efficient landscape ordinances.
Goal EE: F – Decrease energy demand through reducing urban heat island effect.	**Measure EE: F1 –** Promote Tree Planting for Shading and Energy Efficiency.	**Consistent.** Trees would be dispersed throughout the project site. Landscaping within the project site will be designed with predominantly drought tolerant species, including the use of natives and seasonal ornamental plantings.
Goal SW: A – Increase Diversion and Reduction of Residential Waste	**Measure SW: A2 – Implement Residential Collection Programs to Increase Diversion of Waste.**	**Consistent.** Per AB 341, the project would be required to reduce, recycle, or compost 75 percent of the solid waste generated.
Goal SW: B – Increase Diversion and Reduction of Commercial Waste	**Measure SW: B2 – Implement Commercial Collection Programs to Increase Diversion of Waste.**	**Consistent.** Per AB 341, the project would be required to reduce, recycle, or compost 75 percent of the solid waste generated.

Notes:
1. California Energy Commission, *2019 Building Energy Efficiency Standards*, March 2018.

Source: City of Carson, *Climate Action Plan*, December 2017.

2017 Scoping Plan

The 2017 Scoping Plan identifies additional GHG reduction measures necessary to achieve the 2030 target. These measures build upon those identified in the first update to the Scoping Plan (2013). Although a number of these measures are currently established as policies and measures, some measures have not yet been formally proposed or adopted. It is expected that these measures or similar actions to reduce GHG emissions would be adopted as required to achieve statewide GHG emissions targets. Provided in Table 5, *Project Consistency with 2017 Scoping Plan*, is an evaluation of applicable reduction actions/strategies by emissions source category to

determine how the project would be consistent with or exceed reduction actions/strategies outlined in the 2017 Scoping Plan.

Table 5
Project Consistency with 2017 Scoping Plan

Sector / Source	Category / Description	Project Consistency Analysis
Energy		
California Renewables Portfolio Standard, Senate Bill 350 (SB 350) and Senate Bill 100 (SB 100)	Increases the proportion of electricity from renewable sources to 33 percent renewable power by 2020. SB 350 requires 50 percent by 2030. SB 100 requires 44 percent by 2024, 52 percent by 2027, and 60 percent by 2030. It also requires the State Energy Resources Conservation and Development Commission to double the energy efficiency savings in electricity and natural gas final end uses of retail customers through energy efficiency and conservation.	**No Conflict.** The project would utilize energy from SCE, which is required to meet the 2020, 2030, 2045, and 2050 performance standards. In 2018, 36 percent of SCE's electricity came from renewable resources.[1] By 2030, SCE plans to achieve 80 percent carbon-free energy.[2] The project would also meet the applicable requirements of the Title 24 Standards and CALGreen.
CCR, Title 24, Building Standards Code	Energy Efficiency Standards for Residential and Nonresidential Buildings.	**Mandatory Compliance.** The project must demonstrate that it will meet the applicable requirements of the 2019 Title 24 Standards and CALGreen prior to approval of the building permits.
Assembly Bill 1109 (AB 1109)	The Lighting Efficiency and Toxics Reduction Act (AB 1109) prohibits manufacturing specified general purpose lights that contain levels of hazardous substances prohibited by the European Union. AB 1109 also requires a reduction in average Statewide electrical energy consumption by not less than 50 percent from the 2007 levels for indoor residential lighting and not less than 25 percent from the 2007 levels for indoor commercial and outdoor lighting by 2018.	**No Conflict.** According to the California Energy Commission, energy savings from AB 1109 are achieved through codes and standards. Energy savings from AB 1109 are calculated as part of codes and standards savings.[3] As discussed above, the project would meet the applicable requirements of the 2019 Title 24 Standards and CALGreen, which include energy efficient lighting.
California Green Building Standards (CALGreen) Code Requirements	All bathroom exhaust fans shall be ENERGY STAR compliant.	**Mandatory Compliance.** The project construction plans must demonstrate that energy efficiency appliances, including bathroom exhaust fans, and equipment and would meet the applicable energy standards in the 2019 Title 24 Standards and CALGreen prior to approval of the building permits.
	HVAC Systems will be designed to meet American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) standards.	**Mandatory Compliance.** The project construction plans must demonstrate that energy efficiency appliances and equipment and would meet the applicable energy standards in ASHRAE 90.1-2013 Appendix G and the 2019 Title 24 Standards and CALGreen prior to approval of the building permits.
	Energy commissioning shall be performed for buildings larger than 10,000 square feet.	**Mandatory Compliance.** The project must demonstrate compliance with CALGreen prior to approval of the building permits.
	Air filtration systems are required to meet a minimum efficiency reporting value (MERV) 8 or higher.	**Mandatory Compliance.** The project must demonstrate compliance with the requirement of MERV 13 or higher, in accordance with the 2019 CALGreen Code, prior to approval of the building permits.

Table 5 (Continued)
Project Consistency with 2017 Scoping Plan

Sector / Source	Category / Description	Project Consistency Analysis
	Refrigerants used in newly installed HVAC systems shall not contain any CFCs.	**Mandatory Compliance.** The project must meet this requirement as part of its compliance with the 2019 CALGreen Code prior to approval of the building permits.
	Parking spaces shall be designed for carpool or alternative fueled vehicles. Up to eight percent of total parking spaces will be designed for such vehicles.	**Mandatory Compliance.** The project would meet this requirement as part of its compliance with the 2019 CALGreen Code. Per the 2019 CALGreen Residential Mandatory Measure 4.106.4 and Nonresidential Mandatory Measure 5.106.5, the project would be required to install EV charging spaces, EV parking spaces, and EV conduits in the townhome garages.
	Long-term and short-term bike parking shall be provided for up to five percent of vehicle trips.	**Consistent.** The project would meet this requirement by providing short-term bicycle parking (5 percent of the visitor vehicular parking stalls) and long-term bicycle parking (5 percent of the tenant vehicular parking stalls) in accordance with the 2019 CALGreen Code.
	Requires use of low VOC coatings consistent with AQMD Rule 1168.	**Consistent.** The project would be consistent with this regulation and would meet the low VOC coating requirements.
SB 1368, CCR Title 20, Cap-and-Trade Program	The Cap-and-Trade Program places an economy-wide "cap" on major sources of greenhouse gas emissions (i.e. refineries, power plants, industrial facilities and transportation fuels) and minimizes the compliance costs of achieving AB 32 goals. Electricity generators and large industrial facilities emitting 25,000 $MTCO_2e$ or more annually are subject to the Cap-and-Trade Program. Each year the cap is lowered by approximately 3 percent, ensuring that California is reducing greenhouse gases.	**Not Applicable.** This program involves capping emissions from large-scale electricity generation, industrial facilities, and broad scoped fuels. Caps do not directly affect mixed-use projects.
Mobile Sources		
Mobile Source Strategy (Cleaner Technology and Fuels)	Reduce GHGs and other pollutants from the transportation sector through transition to zero-emission and low-emission vehicles, cleaner transit systems and reduction of vehicle miles traveled.	**Consistent.** The project would be consistent with this strategy by supporting the use of zero-emission and low-emission vehicles. Per the 2019 CALGreen Residential Mandatory Measure 4.106.4 and Nonresidential Mandatory Measure 5.106.5, the project would be required to install EV charging spaces, EV parking spaces, and EV conduits in the townhome garages.

Table 5 (Continued)
Project Consistency with 2017 Scoping Plan

Sector / Source	Category / Description	Project Consistency Analysis
AB 1493 (Pavley Regulations)	Reduces GHG emissions in new passenger vehicles from model year 2012 through 2016 (Phase I) and model years 2017–2025 (Phase II). Also reduces gasoline consumption to a rate of 31 percent of 1990 gasoline consumption (and associated GHG emissions) by 2020.	**Not Applicable.** These regulations apply to automobile manufacturers, not individual land uses. Mobile emissions associated with the project in Table 3 reflect compliance with this regulation. GHG emissions related to vehicular travel by the project would benefit from this regulation because vehicle trips associated with the project would be affected by AB 1493. Mobile source emissions generated by the project would be reduced with implementation of AB 1493 consistent with reduction of GHG emissions under AB 32.
Low Carbon Fuel Standard (Executive Order S-01-07)	Establishes protocols for measuring life-cycle carbon intensity of transportation fuels and helps to establish use of alternative fuels. This executive order establishes a Statewide goal to reduce the carbon intensity of California's transportation fuels by at least 10 percent by 2020	**Not Applicable.** The Low Carbon Fuel Standard applies to manufacturers of automotive fuels, not to individual land uses. Mobile emissions associated with the project in Table 3 reflect compliance with this regulation. GHG emissions related to vehicular travel by the project would benefit from this regulation and mobile source emissions generated by the project would be reduced with implementation of the Low Carbon Fuel Standard consistent with reduction of GHG emissions under AB 32.
Advanced Clean Cars Program	In 2012, CARB adopted the Advanced Clean Cars (ACC) program to reduce criteria pollutants and GHG emissions for model year vehicles 2015 through 2025. ACC includes the Low-Emission Vehicle (LEV) regulations that reduce criteria pollutants and GHG emissions from light- and medium-duty vehicles, and the Zero-Emission Vehicle (ZEV) regulation, which requires manufacturers to produce an increasing number of pure ZEVs (meaning battery electric and fuel cell electric vehicles), with provisions to also produce plug-in hybrid electric vehicles (PHEV) in the 2018 through 2025 model years.	**Not Applicable.** The standards would apply to manufacturers of vehicles used by visitors and employees associated with the project. Notwithstanding, the project would install EV charging spaces, EV parking spaces, and EV conduits in the townhome garages in accordance with 2019 CALGreen Residential Mandatory Measure 4.106.4 and Nonresidential Mandatory Measure 5.106.5.
Senate Bill (SB) 375	SB 375 establishes mechanisms for the development of regional targets for reducing passenger vehicle GHG emissions. Under SB 375, CARB is required, in consultation with the state's Metropolitan Planning Organizations, to set regional GHG reduction targets for the passenger vehicle and light-duty truck sector for 2020 and 2035.	**Consistent.** The SCAG 2020-2045 RTP/SCS contains measures to achieve VMT reductions required under SB 375. Refer to Table 6, *Project Consistency with the 2020-2045 RTP/SCS*, for an analysis of the project's consistency with the goals and objectives outlined in the 2020-2045 RTP/SCS.
Water		
CCR, Title 24, Building Standards Code	Title 24 includes water efficiency requirements for new residential and non- residential uses.	**Mandatory Compliance.** The project would be required to comply with Chapter 4, *Division 4.3 – Water Efficiency and Conservation* of the 2019 Title 24 Standards. This includes compliance with the Model Water Efficient Landscape Ordinance (MWELO).

Table 5 (Continued)
Project Consistency with 2017 Scoping Plan

Sector / Source	Category / Description	Project Consistency Analysis
Senate Bill X7-7:	The Water Conservation Act of 2009 sets an overall goal of reducing per capita urban water use by 20 percent by December 31, 2020. Each urban retail water supplier shall develop water use targets to meet this goal. This is an implementing measure of the Water Sector of the AB 32 Scoping Plan. Reduction in water consumption directly reduces the energy necessary and the associated emissions to convene, treat, and distribute the water; it also reduces emissions from wastewater treatment.	**Consistent.** The project would consume water from water suppliers that would comply with Senate Bill X7-7 and the Water Sector of the AB 32 Scoping Plan. In addition, the project would comply with outdoor water conservation measures outlined per California water regulations (AB 1881) and local water efficient landscape ordinances.
Solid Waste		
California Integrated Waste Management Act (IWMA) of 1989 and Assembly Bill (AB) 341	The IWMA mandated that state agencies develop and implement an integrated waste management plan which outlines the steps to be taken to divert at least 50 percent of their solid waste from disposal facilities. AB 341 directs CalRecycle to develop and adopt regulations for mandatory commercial recycling and sets a Statewide goal for 75 percent disposal reduction by the year 2020.	**Not Applicable.** These regulations apply to municipal agencies who are responsible for reducing landfill disposal of solid wastes collected in their jurisdictions. GHG emissions related to solid waste generation from the project would benefit from this regulation as it would decrease the overall amount of solid waste disposed of at landfills. The decrease in solid waste would then in return decrease the amount of methane released from the decomposing solid waste. Project-related GHG emissions from solid waste generation provided in Table 3 include a 50-percent reduction in solid waste generation source emissions.

Notes:
1. California Energy Commission, 2018 Power Content Label Southern California Edison, https://www.sce.com/sites/default/files/inline-files/2018SCEPCL.pdf, accessed November 16, 2020.
2. California Air Resources Board, *California's 2017 Climate Change Scoping Plan, Figure 4: California 2013 Anthropogenic Black Carbon Emission Sources*, November 2017.
3. California Energy Commission, *2013 California Energy Efficiency Potential and Goals Study, Appendix Volume I*, August 15, 2013.

Source: California Air Resources Board, *California's 2017 Climate Change Scoping Plan*, November 2017.

2020-2045 RTP/SCS

On September 3, 2020, the Regional Council of SCAG formally adopted the 2020-2045 RTP/SCS. The 2020-2045 RTP/SCS includes performance goals that were adopted to help focus future investments on the best-performing projects, as well as different strategies to preserve, maintain, and optimize the performance of the existing transportation system. The SCAG 2020-2045 RTP/SCS is forecast to help California reach its GHG reduction goals by reducing GHG emissions from passenger cars by eight percent below 2005 levels by 2020 and 19 percent by 2035 in accordance with the most recent CARB targets adopted in March 2018. Five key SCS strategies are included in the 2020-2045 RTP/SCS to help the region meet its regional VMT and GHG reduction goals, as required by the State. Table 6, *Project Consistency with the 2020-2045 RTP/SCS* shows the project's consistency with these five strategies found within the 2020-2045 RTP/SCS.

As shown therein, the proposed project would be consistent with the GHG emission reduction strategies contained in the 2020-2045 RTP/SCS.

Table 6
Project Consistency with the 2020-2045 RTP/SCS

Reduction Strategy	Applicable Land Use Tools	Project Consistency Analysis
Focus Growth Near Destinations and Mobility Options		
• Emphasize land use patterns that facilitate multimodal access to work, educational and other destinations • Focus on a regional jobs/housing balance to reduce commute times and distances and expand job opportunities near transit and along center-focused main streets • Plan for growth near transit investments and support implementation of first/last mile strategies • Promote the redevelopment of underperforming retail developments and other outmoded nonresidential uses • Prioritize infill and redevelopment of underutilized land to accommodate new growth, increase amenities and connectivity in existing neighborhoods • Encourage design and transportation options that reduce the reliance on and number of solo car trips (this could include mixed uses or locating and orienting close to existing destinations) • Identify ways to "right size" parking requirements and promote alternative parking strategies (e.g. shared parking or smart parking)	**Center Focused Placemaking, Priority Growth Areas (PGA), Job Centers, High Quality Transit Areas (HQTAs), Transit Priority Areas (TPA), Neighborhood Mobility Areas (NMAs), Livable Corridors, Spheres of Influence (SOIs), Green Region, Urban Greening.**	**Consistent.** The project consists of 1,527,694 square feet of residential uses (high-density multi-family buildings and townhomes), as well as 10,352 square feet of café and restaurant space. The project would replace existing mobile homes and construct high-density residential uses. Therefore, the project would be considered a mixed-use infill development which is located in a HQTA. The project site is located within a pedestrian-oriented area given that it fronts existing sidewalks to the east and west, and there are existing bus stops within 0.10-mile of the project site. Furthermore, the project site is located in an urbanized area and in close proximity to existing residential and commercial development. The proposed project would also be within walking and biking distance of residential and commercial uses. The project would include housing and job opportunities within the same development, as well as job opportunities nearby which serves to reduce VMT. The project would provide bicycle parking spaces in accordance with the 2019 CALGreen Code. Therefore, the project would focus growth near destinations and mobility options.

Table 6 (Continued)
Project Consistency with the 2020-2045 RTP/SCS

Reduction Strategy	Applicable Land Use Tools	Project Consistency Analysis
Promote Diverse Housing Choices		
• Preserve and rehabilitate affordable housing and prevent displacement • Identify funding opportunities for new workforce and affordable housing development • Create incentives and reduce regulatory barriers for building context sensitive accessory dwelling units to increase housing supply • Provide support to local jurisdictions to streamline and lessen barriers to housing development that supports reduction of greenhouse gas emissions	**PGA, Job Centers, HQTAs, NMA, TPAs, Livable Corridors, Green Region, Urban Greening.**	**Consistent.** The proposed project consists of a mixed-use development, including 180 senior independent living units. The project would support mixed-use developments with housing nearby commercial and job centers. As such, the proposed project would help increase housing while promoting a mixed-use development within a compact area with potential jobs, commercial uses, as well as access to a HQTA. The project would be consistent with this reduction strategy.
Leverage Technology Innovations		
• Promote low emission technologies such as neighborhood electric vehicles, shared rides hailing, car sharing, bike sharing and scooters by providing supportive and safe infrastructure such as dedicated lanes, charging and parking/drop-off space • Improve access to services through technology—such as telework and telemedicine as well as other incentives such as a "mobility wallet," an app-based system for storing transit and other multi-modal payments • Identify ways to incorporate "micro-power grids" in communities, for example solar energy, hydrogen fuel cell power storage and power generation	**HQTA, TPAs, NMA, Livable Corridors.**	**Consistent.** The project would be required to install EV charging stations, designated EV parking, as well as bike parking and storage in accordance with the 2019 Title 24 standards and CALGreen Code. Additionally, the 2019 Title 24 standards require photovoltaic solar panels on residential development. Therefore, the proposed project would leverage technology innovations and help the City, County, and State meet its GHG reduction goals. The project would be consistent with this reduction strategy.

Table 6 (Continued)
Project Consistency with the 2020-2045 RTP/SCS

Reduction Strategy	Applicable Land Use Tools	Project Consistency Analysis
Support Implementation of Sustainability Policies		
• Pursue funding opportunities to support local sustainable development implementation projects that reduce greenhouse gas emissions • Support statewide legislation that reduces barriers to new construction and that incentivizes development near transit corridors and stations • Support local jurisdictions in the establishment of Enhanced Infrastructure Financing Districts (EIFDs), Community Revitalization and Investment Authorities (CRIAs), or other tax increment or value capture tools to finance sustainable infrastructure and development projects, including parks and open space • Work with local jurisdictions/communities to identify opportunities and assess barriers to implement sustainability strategies • Enhance partnerships with other planning organizations to promote resources and best practices in the SCAG region • Continue to support long range planning efforts by local jurisdictions • Provide educational opportunities to local decisions makers and staff on new tools, best practices and policies related to implementing the Sustainable Communities Strategy	**Center Focused Placemaking, Priority Growth Areas (PGA), Job Centers, High Quality Transit Areas (HQTAs), Transit Priority Areas (TPA), Neighborhood Mobility Areas (NMAs), Livable Corridors, Spheres of Influence (SOIs), Green Region, Urban Greening.**	**Consistent.** As previously discussed, the proposed project would be located in a HQTA, which would promote alternative modes of transportation. The project would include public park spaces and gathering nodes, with walkable paseos connecting the active greenspace. Further, the project would comply with sustainable practices included in the 2019 Title 24 standards and CALGreen Code, such as installation of photovoltaic solar panels and EV charging stations. Thus, the project would be consistent with this reduction strategy.

Table 6 (Continued)
Project Consistency with the 2020-2045 RTP/SCS

Reduction Strategy	Applicable Land Use Tools	Project Consistency Analysis
Promote a Green Region		
• Support development of local climate adaptation and hazard mitigation plans, as well as project implementation that improves community resiliency to climate change and natural hazards • Support local policies for renewable energy production, reduction of urban heat islands and carbon sequestration • Integrate local food production into the regional landscape • Promote more resource efficient development focused on conservation, recycling and reclamation • Preserve, enhance and restore regional wildlife connectivity • Reduce consumption of resource areas, including agricultural land • Identify ways to improve access to public park space	**Green Region, Urban Greening, Greenbelts and Community Separators.**	**Consistent.** The proposed project consists of a mixed-use infill development in an urbanized area and would therefore not interfere with regional wildlife connectivity or concert agricultural land. The project would also incorporate public park spaces and gathering nodes. The project would be required to comply with 2019 Title 24 standards and CALGreen Code, which would help reduce energy consumption and reduce GHG emissions. Thus, the project would support efficient development that reduces energy consumption and GHG emissions. The project would be consistent with this reduction strategy.

Source: Southern California Association of Governments, *2025-2040 Regional Transportation Plan/Sustainable Communities Strategy – Connect SoCal*, September 3, 2020.

CONCLUSION

In summary, the plan consistency analysis provided above demonstrates that the project complies with or exceeds the plans, policies, regulations and GHG reduction actions/strategies outlined in the CAP, 2017 Scoping Plan, and 2020-2045 RTP/SCS. Therefore, the project would not conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing emissions of GHGs. Furthermore, because the project is consistent and does not conflict with these plans, policies, and regulations, the project's incremental increase in GHG emissions as described above would not result in a significant impact on the environment. Therefore, project-specific impacts with regard to climate change would be less than significant.

Mitigation Measures: No mitigation measures are required.

Level of Significance: Less Than Significant Impact.

6.0 REFERENCES

6.1 LIST OF PREPARERS

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Faye Stroud, Graphics

6.2 DOCUMENTS

1. California Air Resources Board, *California's 2017 Climate Change Scoping Plan*, November 2017.

2. California Energy Commission, *2013 California Energy Efficiency Potential and Goals Study, Appendix Volume I*, August 15, 2013.

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5. Fehr and Peers, *Imperial Avalon Local Transportation Assessment*, July 16, 2021.

6. United States Environmental Protection Agency Website, *Greenhouse Gas Equivalencies Calculator, http://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator*, accessed November 2020.

7. United States Environmental Protection Agency, *Inventory of United States Greenhouse Gas Emissions and Sinks 1990 to 2018*, April 13, 2020.

6.3 SOFTWARE/WEBSITES

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2. Google Earth, 2019.
3. Weather Spark, *Average Weather in Carson, California, United States*, https://weatherspark.com/y/1618/Average-Weather-in-Carson-California-United-States-Year-Round, accessed November 18, 2020.

APPENDIX A: GREENHOUSE GAS EMISSIONS DATA

Existing Operational Run - Imperial Avalon

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Mobile Home Park	225.00	Dwelling Unit	28.35	270,000.00	644

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	534	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Existing Operational Run - Imperial Avalon - Los Angeles-South Coast County, Annual

Project Characteristics - CO2 Intensity Factor Source: Southern California Edison, 2019 Sustainability Report.

Land Use - Per project description.

Construction Phase - No construction, existing operational run only.

Off-road Equipment - No construction, existing operational run only.

Vehicle Trips - Per traffic study.

Vehicle Emission Factors - EMFAC 2017

Vehicle Emission Factors - EMFAC 2017

Vehicle Emission Factors - EMFAC 2017

Energy Use -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
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tblVehicleEF	LDA	2.1610e-003	1.3730e-003
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.13	0.08
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.02	6.0420e-003
tblVehicleEF	LDA	0.05	0.21
tblVehicleEF	LDA	0.10	0.15
tblVehicleEF	LDA	2.9190e-003	2.2610e-003
tblVehicleEF	LDA	6.3800e-004	4.5200e-004
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.13	0.08
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.02	8.7770e-003
tblVehicleEF	LDA	0.05	0.21
tblVehicleEF	LDA	0.11	0.16
tblVehicleEF	LDT1	0.02	4.0690e-003
tblVehicleEF	LDT1	0.02	0.05

tblVehicleEF	LDT1	2.02	0.90
tblVehicleEF	LDT1	3.43	1.86
tblVehicleEF	LDT1	360.63	277.98
tblVehicleEF	LDT1	73.09	54.78
tblVehicleEF	LDT1	0.19	0.06
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	3.9490e-003	1.8700e-003
tblVehicleEF	LDT1	3.7850e-003	1.8850e-003
tblVehicleEF	LDT1	3.6370e-003	1.7200e-003
tblVehicleEF	LDT1	3.4820e-003	1.7330e-003
tblVehicleEF	LDT1	0.15	0.08
tblVehicleEF	LDT1	0.30	0.14
tblVehicleEF	LDT1	0.12	0.08
tblVehicleEF	LDT1	0.05	0.02
tblVehicleEF	LDT1	0.19	0.49
tblVehicleEF	LDT1	0.24	0.21
tblVehicleEF	LDT1	3.6330e-003	2.7510e-003
tblVehicleEF	LDT1	7.9100e-004	5.4200e-004
tblVehicleEF	LDT1	0.15	0.08
tblVehicleEF	LDT1	0.30	0.14
tblVehicleEF	LDT1	0.12	0.08
tblVehicleEF	LDT1	0.07	0.03
tblVehicleEF	LDT1	0.19	0.49
tblVehicleEF	LDT1	0.26	0.23
tblVehicleEF	LDT1	0.02	4.3300e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	2.18	0.98

tblVehicleEF	LDT1	2.91	1.59
tblVehicleEF	LDT1	376.30	288.65
tblVehicleEF	LDT1	73.09	54.27
tblVehicleEF	LDT1	0.17	0.06
tblVehicleEF	LDT1	0.18	0.16
tblVehicleEF	LDT1	3.9490e-003	1.8700e-003
tblVehicleEF	LDT1	3.9490e-003	1.8700e-003
tblVehicleEF	LDT1	3.7850e-003	1.8850e-003
tblVehicleEF	LDT1	3.6370e-003	1.7200e-003
tblVehicleEF	LDT1	3.4820e-003	1.7330e-003
tblVehicleEF	LDT1	0.23	0.13
tblVehicleEF	LDT1	0.32	0.14
tblVehicleEF	LDT1	0.17	0.10
tblVehicleEF	LDT1	0.05	0.02
tblVehicleEF	LDT1	0.18	0.46
tblVehicleEF	LDT1	0.21	0.19
tblVehicleEF	LDT1	3.7920e-003	2.8560e-003
tblVehicleEF	LDT1	7.8200e-004	5.3700e-004
tblVehicleEF	LDT1	0.23	0.13
tblVehicleEF	LDT1	0.32	0.14
tblVehicleEF	LDT1	0.17	0.10
tblVehicleEF	LDT1	0.07	0.03
tblVehicleEF	LDT1	0.18	0.46
tblVehicleEF	LDT1	0.23	0.21
tblVehicleEF	LDT1	0.02	3.9900e-003
tblVehicleEF	LDT1	0.02	0.05
tblVehicleEF	LDT1	1.96	0.87

tblVehicleEF	LDT1	3.54	1.92
tblVehicleEF	LDT1	354.88	274.07
tblVehicleEF	LDT1	73.09	54.89
tblVehicleEF	LDT1	0.19	0.06
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	3.9490e-003	1.8700e-003
tblVehicleEF	LDT1	3.7850e-003	1.8850e-003
tblVehicleEF	LDT1	3.6370e-003	1.7200e-003
tblVehicleEF	LDT1	3.4820e-003	1.7330e-003
tblVehicleEF	LDT1	0.15	0.08
tblVehicleEF	LDT1	0.35	0.15
tblVehicleEF	LDT1	0.11	0.07
tblVehicleEF	LDT1	0.05	0.02
tblVehicleEF	LDT1	0.23	0.58
tblVehicleEF	LDT1	0.25	0.22
tblVehicleEF	LDT1	3.5750e-003	2.7120e-003
tblVehicleEF	LDT1	7.9300e-004	5.4300e-004
tblVehicleEF	LDT1	0.15	0.08
tblVehicleEF	LDT1	0.35	0.15
tblVehicleEF	LDT1	0.11	0.07
tblVehicleEF	LDT1	0.07	0.02
tblVehicleEF	LDT1	0.23	0.58
tblVehicleEF	LDT1	0.27	0.24
tblVehicleEF	LDT2	8.6320e-003	3.0040e-003
tblVehicleEF	LDT2	8.2970e-003	0.05
tblVehicleEF	LDT2	0.97	0.73
tblVehicleEF	LDT2	1.67	2.21

tblVehicleEF	LDT2	408.00	286.61
tblVehicleEF	LDT2	83.22	56.77
tblVehicleEF	LDT2	0.10	0.05
tblVehicleEF	LDT2	0.14	0.18
tblVehicleEF	LDT2	2.1760e-003	1.5480e-003
tblVehicleEF	LDT2	2.3520e-003	1.5640e-003
tblVehicleEF	LDT2	2.0020e-003	1.4250e-003
tblVehicleEF	LDT2	2.1630e-003	1.4380e-003
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.12	0.09
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.07	0.34
tblVehicleEF	LDT2	0.11	0.21
tblVehicleEF	LDT2	4.0880e-003	2.8350e-003
tblVehicleEF	LDT2	8.6100e-004	5.6200e-004
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.12	0.09
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.07	0.34
tblVehicleEF	LDT2	0.12	0.22
tblVehicleEF	LDT2	9.1430e-003	3.2070e-003
tblVehicleEF	LDT2	7.3790e-003	0.04
tblVehicleEF	LDT2	1.07	0.81
tblVehicleEF	LDT2	1.43	1.89
tblVehicleEF	LDT2	426.32	296.59

tblVehicleEF	LDT2	83.22	56.18
tblVehicleEF	LDT2	0.09	0.04
tblVehicleEF	LDT2	0.13	0.17
tblVehicleEF	LDT2	2.1760e-003	1.5480e-003
tblVehicleEF	LDT2	2.1760e-003	1.5480e-003
tblVehicleEF	LDT2	2.3520e-003	1.5640e-003
tblVehicleEF	LDT2	2.0020e-003	1.4250e-003
tblVehicleEF	LDT2	2.1630e-003	1.4380e-003
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.12	0.10
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.06	0.32
tblVehicleEF	LDT2	0.10	0.18
tblVehicleEF	LDT2	4.2730e-003	2.9340e-003
tblVehicleEF	LDT2	8.5600e-004	5.5600e-004
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.12	0.10
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.06	0.32
tblVehicleEF	LDT2	0.11	0.20
tblVehicleEF	LDT2	8.4620e-003	2.9410e-003
tblVehicleEF	LDT2	8.4930e-003	0.05
tblVehicleEF	LDT2	0.94	0.71
tblVehicleEF	LDT2	1.73	2.29
tblVehicleEF	LDT2	401.27	282.95

tblVehicleEF	LDT2	83.22	56.90
tblVehicleEF	LDT2	0.10	0.05
tblVehicleEF	LDT2	0.15	0.19
tblVehicleEF	LDT2	2.1760e-003	1.5480e-003
tblVehicleEF	LDT2	2.3520e-003	1.5640e-003
tblVehicleEF	LDT2	2.0020e-003	1.4250e-003
tblVehicleEF	LDT2	2.1630e-003	1.4380e-003
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.13	0.10
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.08	0.40
tblVehicleEF	LDT2	0.11	0.21
tblVehicleEF	LDT2	4.0210e-003	2.7990e-003
tblVehicleEF	LDT2	8.6200e-004	5.6300e-004
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.13	0.10
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.08	0.40
tblVehicleEF	LDT2	0.13	0.23
tblVehicleEF	LHD1	6.3570e-003	4.5300e-003
tblVehicleEF	LHD1	0.02	3.2190e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.16	0.18
tblVehicleEF	LHD1	1.07	0.36
tblVehicleEF	LHD1	3.29	0.92

tblVehicleEF	LHD1	8.89	8.48
tblVehicleEF	LHD1	622.45	600.46
tblVehicleEF	LHD1	35.85	10.55
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.15	0.34
tblVehicleEF	LHD1	1.13	0.25
tblVehicleEF	LHD1	7.9800e-004	9.0000e-004
tblVehicleEF	LHD1	9.8890e-003	9.9110e-003
tblVehicleEF	LHD1	9.6360e-003	5.1900e-003
tblVehicleEF	LHD1	1.1970e-003	2.2200e-004
tblVehicleEF	LHD1	7.6300e-004	8.6100e-004
tblVehicleEF	LHD1	2.4720e-003	2.4780e-003
tblVehicleEF	LHD1	9.1880e-003	4.9400e-003
tblVehicleEF	LHD1	1.1020e-003	2.0400e-004
tblVehicleEF	LHD1	3.4680e-003	1.7550e-003
tblVehicleEF	LHD1	0.11	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.0560e-003	1.1400e-003
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.33	0.42
tblVehicleEF	LHD1	0.32	0.05
tblVehicleEF	LHD1	9.0000e-005	8.2000e-005
tblVehicleEF	LHD1	6.1270e-003	5.8510e-003
tblVehicleEF	LHD1	4.2000e-004	1.0400e-004
tblVehicleEF	LHD1	3.4680e-003	1.7550e-003
tblVehicleEF	LHD1	0.11	0.06
tblVehicleEF	LHD1	0.03	0.03

tblVehicleEF	LHD1	2.0560e-003	1.1400e-003
tblVehicleEF	LHD1	0.10	0.04
tblVehicleEF	LHD1	0.33	0.42
tblVehicleEF	LHD1	0.35	0.06
tblVehicleEF	LHD1	6.3570e-003	4.5400e-003
tblVehicleEF	LHD1	0.02	3.2650e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.16	0.18
tblVehicleEF	LHD1	1.08	0.37
tblVehicleEF	LHD1	3.14	0.88
tblVehicleEF	LHD1	8.89	8.48
tblVehicleEF	LHD1	622.45	600.47
tblVehicleEF	LHD1	35.85	10.48
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.07	0.32
tblVehicleEF	LHD1	1.08	0.24
tblVehicleEF	LHD1	7.9800e-004	9.0000e-004
tblVehicleEF	LHD1	9.8890e-003	9.9110e-003
tblVehicleEF	LHD1	9.6360e-003	5.1900e-003
tblVehicleEF	LHD1	9.6360e-003	5.1900e-003
tblVehicleEF	LHD1	1.1970e-003	2.2200e-004
tblVehicleEF	LHD1	7.6300e-004	8.6100e-004
tblVehicleEF	LHD1	2.4720e-003	2.4780e-003
tblVehicleEF	LHD1	9.1880e-003	4.9400e-003
tblVehicleEF	LHD1	1.1020e-003	2.0400e-004
tblVehicleEF	LHD1	5.2080e-003	2.6250e-003
tblVehicleEF	LHD1	0.12	0.06

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9180e-003	1.5850e-003
tblVehicleEF	LHD1	0.08	0.03
tblVehicleEF	LHD1	0.32	0.40
tblVehicleEF	LHD1	0.31	0.05
tblVehicleEF	LHD1	9.0000e-005	8.2000e-005
tblVehicleEF	LHD1	6.1280e-003	5.8510e-003
tblVehicleEF	LHD1	4.1700e-004	1.0400e-004
tblVehicleEF	LHD1	5.2080e-003	2.6250e-003
tblVehicleEF	LHD1	0.12	0.06
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.9180e-003	1.5850e-003
tblVehicleEF	LHD1	0.10	0.04
tblVehicleEF	LHD1	0.32	0.40
tblVehicleEF	LHD1	0.34	0.05
tblVehicleEF	LHD1	6.3570e-003	4.5290e-003
tblVehicleEF	LHD1	0.02	3.2070e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.16	0.18
tblVehicleEF	LHD1	1.06	0.36
tblVehicleEF	LHD1	3.32	0.93
tblVehicleEF	LHD1	8.89	8.48
tblVehicleEF	LHD1	622.45	600.45
tblVehicleEF	LHD1	35.85	10.56
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.13	0.34
tblVehicleEF	LHD1	1.14	0.25

tblVehicleEF	LHD1	7.9800e-004	9.0000e-004
tblVehicleEF	LHD1	9.8890e-003	9.9110e-003
tblVehicleEF	LHD1	9.6360e-003	5.1900e-003
tblVehicleEF	LHD1	1.1970e-003	2.2200e-004
tblVehicleEF	LHD1	7.6300e-004	8.6100e-004
tblVehicleEF	LHD1	2.4720e-003	2.4780e-003
tblVehicleEF	LHD1	9.1880e-003	4.9400e-003
tblVehicleEF	LHD1	1.1020e-003	2.0400e-004
tblVehicleEF	LHD1	3.6860e-003	1.8010e-003
tblVehicleEF	LHD1	0.13	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.0330e-003	1.1130e-003
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.35	0.45
tblVehicleEF	LHD1	0.32	0.05
tblVehicleEF	LHD1	9.0000e-005	8.2000e-005
tblVehicleEF	LHD1	6.1270e-003	5.8510e-003
tblVehicleEF	LHD1	4.2100e-004	1.0500e-004
tblVehicleEF	LHD1	3.6860e-003	1.8010e-003
tblVehicleEF	LHD1	0.13	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.0330e-003	1.1130e-003
tblVehicleEF	LHD1	0.10	0.04
tblVehicleEF	LHD1	0.35	0.45
tblVehicleEF	LHD1	0.36	0.06
tblVehicleEF	LHD2	4.6500e-003	3.0890e-003
tblVehicleEF	LHD2	5.8620e-003	2.5840e-003

tblVehicleEF	LHD2	0.01	6.9570e-003
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	0.45	0.27
tblVehicleEF	LHD2	1.67	0.57
tblVehicleEF	LHD2	13.53	13.01
tblVehicleEF	LHD2	634.55	602.25
tblVehicleEF	LHD2	30.01	7.76
tblVehicleEF	LHD2	0.10	0.07
tblVehicleEF	LHD2	0.88	0.43
tblVehicleEF	LHD2	0.66	0.17
tblVehicleEF	LHD2	1.1790e-003	1.3850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	9.4110e-003
tblVehicleEF	LHD2	5.5800e-004	1.2400e-004
tblVehicleEF	LHD2	1.1280e-003	1.3250e-003
tblVehicleEF	LHD2	2.6300e-003	2.6790e-003
tblVehicleEF	LHD2	9.3300e-003	8.9900e-003
tblVehicleEF	LHD2	5.1400e-004	1.1400e-004
tblVehicleEF	LHD2	1.4140e-003	1.0100e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.8000e-004	6.9100e-004
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.11	0.21
tblVehicleEF	LHD2	0.15	0.03
tblVehicleEF	LHD2	1.3300e-004	1.2400e-004
tblVehicleEF	LHD2	6.1920e-003	5.8170e-003

tblVehicleEF	LHD2	3.3100e-004	7.7000e-005
tblVehicleEF	LHD2	1.4140e-003	1.0100e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.8000e-004	6.9100e-004
tblVehicleEF	LHD2	0.06	0.05
tblVehicleEF	LHD2	0.11	0.21
tblVehicleEF	LHD2	0.17	0.04
tblVehicleEF	LHD2	4.6500e-003	3.0960e-003
tblVehicleEF	LHD2	5.9540e-003	2.6040e-003
tblVehicleEF	LHD2	0.01	6.7190e-003
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	0.46	0.27
tblVehicleEF	LHD2	1.60	0.55
tblVehicleEF	LHD2	13.53	13.01
tblVehicleEF	LHD2	634.55	602.26
tblVehicleEF	LHD2	30.01	7.72
tblVehicleEF	LHD2	0.10	0.07
tblVehicleEF	LHD2	0.83	0.41
tblVehicleEF	LHD2	0.63	0.16
tblVehicleEF	LHD2	1.1790e-003	1.3850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	9.4110e-003
tblVehicleEF	LHD2	9.7680e-003	9.4110e-003
tblVehicleEF	LHD2	5.5800e-004	1.2400e-004
tblVehicleEF	LHD2	1.1280e-003	1.3250e-003
tblVehicleEF	LHD2	2.6300e-003	2.6790e-003

tblVehicleEF	LHD2	9.3300e-003	8.9900e-003
tblVehicleEF	LHD2	5.1400e-004	1.1400e-004
tblVehicleEF	LHD2	2.1090e-003	1.5050e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2380e-003	9.5700e-004
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.10	0.20
tblVehicleEF	LHD2	0.15	0.03
tblVehicleEF	LHD2	1.3300e-004	1.2400e-004
tblVehicleEF	LHD2	6.1920e-003	5.8170e-003
tblVehicleEF	LHD2	3.3000e-004	7.6000e-005
tblVehicleEF	LHD2	2.1090e-003	1.5050e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2380e-003	9.5700e-004
tblVehicleEF	LHD2	0.06	0.05
tblVehicleEF	LHD2	0.10	0.20
tblVehicleEF	LHD2	0.16	0.04
tblVehicleEF	LHD2	4.6500e-003	3.0880e-003
tblVehicleEF	LHD2	5.8380e-003	2.5790e-003
tblVehicleEF	LHD2	0.01	7.0060e-003
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	0.45	0.27
tblVehicleEF	LHD2	1.68	0.58
tblVehicleEF	LHD2	13.53	13.01
tblVehicleEF	LHD2	634.55	602.25

tblVehicleEF	LHD2	30.01	7.77
tblVehicleEF	LHD2	0.10	0.07
tblVehicleEF	LHD2	0.87	0.43
tblVehicleEF	LHD2	0.67	0.17
tblVehicleEF	LHD2	1.1790e-003	1.3850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	9.4110e-003
tblVehicleEF	LHD2	5.5800e-004	1.2400e-004
tblVehicleEF	LHD2	1.1280e-003	1.3250e-003
tblVehicleEF	LHD2	2.6300e-003	2.6790e-003
tblVehicleEF	LHD2	9.3300e-003	8.9900e-003
tblVehicleEF	LHD2	5.1400e-004	1.1400e-004
tblVehicleEF	LHD2	1.4720e-003	1.0070e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.5900e-004	6.6400e-004
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.12	0.23
tblVehicleEF	LHD2	0.16	0.03
tblVehicleEF	LHD2	1.3300e-004	1.2400e-004
tblVehicleEF	LHD2	6.1910e-003	5.8170e-003
tblVehicleEF	LHD2	3.3100e-004	7.7000e-005
tblVehicleEF	LHD2	1.4720e-003	1.0070e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.5900e-004	6.6400e-004
tblVehicleEF	LHD2	0.06	0.05

tblVehicleEF	LHD2	0.12	0.23
tblVehicleEF	LHD2	0.17	0.04
tblVehicleEF	MCY	0.53	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	19.48	18.36
tblVehicleEF	MCY	9.63	8.64
tblVehicleEF	MCY	187.52	224.56
tblVehicleEF	MCY	45.30	58.24
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.3100e-003	2.6240e-003
tblVehicleEF	MCY	4.0640e-003	2.9930e-003
tblVehicleEF	MCY	2.1620e-003	2.4480e-003
tblVehicleEF	MCY	3.8350e-003	2.8030e-003
tblVehicleEF	MCY	1.07	1.07
tblVehicleEF	MCY	0.66	0.60
tblVehicleEF	MCY	0.66	0.64
tblVehicleEF	MCY	2.62	2.58
tblVehicleEF	MCY	0.63	1.58
tblVehicleEF	MCY	2.08	1.78
tblVehicleEF	MCY	2.2730e-003	2.2220e-003
tblVehicleEF	MCY	6.7100e-004	5.7600e-004
tblVehicleEF	MCY	1.07	1.07
tblVehicleEF	MCY	0.66	0.60
tblVehicleEF	MCY	0.66	0.64
tblVehicleEF	MCY	3.25	3.24
tblVehicleEF	MCY	0.63	1.58

tblVehicleEF	MCY	2.26	1.93
tblVehicleEF	MCY	0.52	0.37
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.74	17.73
tblVehicleEF	MCY	8.81	7.83
tblVehicleEF	MCY	187.52	223.36
tblVehicleEF	MCY	45.30	56.31
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.3100e-003	2.6240e-003
tblVehicleEF	MCY	2.3100e-003	2.6240e-003
tblVehicleEF	MCY	4.0640e-003	2.9930e-003
tblVehicleEF	MCY	2.1620e-003	2.4480e-003
tblVehicleEF	MCY	3.8350e-003	2.8030e-003
tblVehicleEF	MCY	1.74	1.72
tblVehicleEF	MCY	0.72	0.67
tblVehicleEF	MCY	1.10	1.04
tblVehicleEF	MCY	2.56	2.53
tblVehicleEF	MCY	0.60	1.48
tblVehicleEF	MCY	1.85	1.58
tblVehicleEF	MCY	2.2590e-003	2.2100e-003
tblVehicleEF	MCY	6.5100e-004	5.5700e-004
tblVehicleEF	MCY	1.74	1.72
tblVehicleEF	MCY	0.72	0.67
tblVehicleEF	MCY	1.10	1.04
tblVehicleEF	MCY	3.17	3.17
tblVehicleEF	MCY	0.60	1.48

tblVehicleEF	MCY	2.01	1.72
tblVehicleEF	MCY	0.53	0.38
tblVehicleEF	MCY	0.16	0.23
tblVehicleEF	MCY	19.59	18.46
tblVehicleEF	MCY	9.76	8.79
tblVehicleEF	MCY	187.52	224.74
tblVehicleEF	MCY	45.30	58.60
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.3100e-003	2.6240e-003
tblVehicleEF	MCY	4.0640e-003	2.9930e-003
tblVehicleEF	MCY	2.1620e-003	2.4480e-003
tblVehicleEF	MCY	3.8350e-003	2.8030e-003
tblVehicleEF	MCY	1.17	1.16
tblVehicleEF	MCY	0.86	0.77
tblVehicleEF	MCY	0.63	0.60
tblVehicleEF	MCY	2.64	2.59
tblVehicleEF	MCY	0.73	1.85
tblVehicleEF	MCY	2.12	1.81
tblVehicleEF	MCY	2.2750e-003	2.2240e-003
tblVehicleEF	MCY	6.7500e-004	5.8000e-004
tblVehicleEF	MCY	1.17	1.16
tblVehicleEF	MCY	0.86	0.77
tblVehicleEF	MCY	0.63	0.60
tblVehicleEF	MCY	3.26	3.25
tblVehicleEF	MCY	0.73	1.85
tblVehicleEF	MCY	2.31	1.97

tblVehicleEF	MDV	0.02	3.5000e-003
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tblVehicleEF	MDV	1.77	0.78
tblVehicleEF	MDV	3.11	2.36
tblVehicleEF	MDV	543.27	352.23
tblVehicleEF	MDV	109.34	68.49
tblVehicleEF	MDV	0.19	0.06
tblVehicleEF	MDV	0.29	0.21
tblVehicleEF	MDV	2.4830e-003	1.5760e-003
tblVehicleEF	MDV	2.6470e-003	1.5670e-003
tblVehicleEF	MDV	2.2920e-003	1.4520e-003
tblVehicleEF	MDV	2.4370e-003	1.4410e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.05	0.01
tblVehicleEF	MDV	0.09	0.35
tblVehicleEF	MDV	0.25	0.24
tblVehicleEF	MDV	5.4490e-003	3.4810e-003
tblVehicleEF	MDV	1.1480e-003	6.7800e-004
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.07	0.02
tblVehicleEF	MDV	0.09	0.35
tblVehicleEF	MDV	0.27	0.26
tblVehicleEF	MDV	0.02	3.7380e-003

tblVehicleEF	MDV	0.02	0.05
tblVehicleEF	MDV	1.90	0.86
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tblVehicleEF	MDV	567.14	362.48
tblVehicleEF	MDV	109.34	67.85
tblVehicleEF	MDV	0.17	0.05
tblVehicleEF	MDV	0.26	0.19
tblVehicleEF	MDV	2.4830e-003	1.5760e-003
tblVehicleEF	MDV	2.4830e-003	1.5760e-003
tblVehicleEF	MDV	2.6470e-003	1.5670e-003
tblVehicleEF	MDV	2.2920e-003	1.4520e-003
tblVehicleEF	MDV	2.4370e-003	1.4410e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.05	0.02
tblVehicleEF	MDV	0.09	0.33
tblVehicleEF	MDV	0.22	0.21
tblVehicleEF	MDV	5.6890e-003	3.5830e-003
tblVehicleEF	MDV	1.1400e-003	6.7100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.07	0.02
tblVehicleEF	MDV	0.09	0.33
tblVehicleEF	MDV	0.24	0.23
tblVehicleEF	MDV	0.02	3.4270e-003

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tblVehicleEF	MDV	1.72	0.75
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tblVehicleEF	MDV	109.34	68.63
tblVehicleEF	MDV	0.19	0.06
tblVehicleEF	MDV	0.29	0.21
tblVehicleEF	MDV	2.4830e-003	1.5760e-003
tblVehicleEF	MDV	2.6470e-003	1.5670e-003
tblVehicleEF	MDV	2.2920e-003	1.4520e-003
tblVehicleEF	MDV	2.4370e-003	1.4410e-003
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.18	0.11
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.05	0.01
tblVehicleEF	MDV	0.11	0.41
tblVehicleEF	MDV	0.25	0.24
tblVehicleEF	MDV	5.3610e-003	3.4440e-003
tblVehicleEF	MDV	1.1500e-003	6.7900e-004
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.18	0.11
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.07	0.02
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tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.5790e-003	2.2800e-004
tblVehicleEF	MH	3.1950e-003	3.2730e-003
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	1.4630e-003	2.1000e-004
tblVehicleEF	MH	1.18	0.49
tblVehicleEF	MH	0.08	0.03
tblVehicleEF	MH	0.49	0.23
tblVehicleEF	MH	0.13	0.03
tblVehicleEF	MH	0.02	0.77
tblVehicleEF	MH	0.43	0.08
tblVehicleEF	MH	0.01	0.01
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tblVehicleEF	MH	1.18	0.49
tblVehicleEF	MH	0.08	0.03
tblVehicleEF	MH	0.49	0.23
tblVehicleEF	MH	0.18	0.04
tblVehicleEF	MH	0.02	0.77
tblVehicleEF	MH	0.47	0.09
tblVehicleEF	MH	0.04	5.5950e-003

tblVehicleEF	MH	0.03	0.02
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tblVehicleEF	MH	63.70	16.77
tblVehicleEF	MH	1.15	0.86
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tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.5790e-003	2.2800e-004
tblVehicleEF	MH	3.1950e-003	3.2730e-003
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	1.4630e-003	2.1000e-004
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tblVehicleEF	MH	0.08	0.04
tblVehicleEF	MH	0.71	0.32
tblVehicleEF	MH	0.18	0.05
tblVehicleEF	MH	0.02	0.75

tblVehicleEF	MH	0.45	0.08
tblVehicleEF	MH	0.04	5.4580e-003
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tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.5790e-003	2.2800e-004
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tblVehicleEF	MH	0.10	0.04
tblVehicleEF	MH	0.51	0.23
tblVehicleEF	MH	0.13	0.03
tblVehicleEF	MH	0.02	0.82
tblVehicleEF	MH	0.43	0.08
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tblVehicleEF	MH	0.10	0.04
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tblVehicleEF	MHD	2.2420e-003	1.8200e-004
tblVehicleEF	MHD	0.04	6.2720e-003
tblVehicleEF	MHD	9.3600e-004	1.1500e-004
tblVehicleEF	MHD	2.1450e-003	1.7400e-004
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tblVehicleEF	MHD	1.3410e-003	4.4700e-004
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tblVehicleEF	MHD	0.03	0.10
tblVehicleEF	MHD	0.46	0.05

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tblVehicleEF	MHD	0.01	9.1570e-003
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tblVehicleEF	MHD	1.3410e-003	4.4700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	8.3700e-004	3.1800e-004
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tblVehicleEF	MHD	0.03	0.10
tblVehicleEF	MHD	0.50	0.05
tblVehicleEF	MHD	0.02	3.8990e-003
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tblVehicleEF	MHD	0.06	9.4620e-003
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tblVehicleEF	MHD	0.04	6.2720e-003
tblVehicleEF	MHD	9.3600e-004	1.1500e-004
tblVehicleEF	MHD	1.8090e-003	1.4900e-004

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tblVehicleEF	MHD	2.0150e-003	6.6700e-004
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tblVehicleEF	MHD	0.01	9.1570e-003
tblVehicleEF	MHD	7.8100e-004	9.9000e-005
tblVehicleEF	MHD	2.0150e-003	6.6700e-004
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tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.1980e-003	4.4100e-004
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tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.48	0.05
tblVehicleEF	MHD	0.02	4.4000e-003
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tblVehicleEF	MHD	9.87	1.64
tblVehicleEF	MHD	2.7290e-003	2.1700e-004
tblVehicleEF	MHD	0.04	6.2720e-003
tblVehicleEF	MHD	9.3600e-004	1.1500e-004
tblVehicleEF	MHD	2.6110e-003	2.0800e-004
tblVehicleEF	MHD	0.04	5.9950e-003
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tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.2400e-004	3.0600e-004
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tblVehicleEF	MHD	0.03	0.11
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tblVehicleEF	MHD	1.4110e-003	4.4200e-004
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tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	8.2400e-004	3.0600e-004
tblVehicleEF	MHD	0.11	0.01
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.51	0.05

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tblVehicleEF	OBUS	0.29	0.66
tblVehicleEF	OBUS	0.68	0.39
tblVehicleEF	OBUS	6.09	2.04
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tblVehicleEF	OBUS	1,273.03	1,243.39
tblVehicleEF	OBUS	68.83	17.04
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tblVehicleEF	OBUS	2.05	1.14
tblVehicleEF	OBUS	2.66	0.91
tblVehicleEF	OBUS	3.0000e-004	1.3700e-004
tblVehicleEF	OBUS	0.01	7.3770e-003
tblVehicleEF	OBUS	7.8200e-004	1.9900e-004
tblVehicleEF	OBUS	2.8700e-004	1.3100e-004
tblVehicleEF	OBUS	9.9080e-003	7.0430e-003
tblVehicleEF	OBUS	7.2000e-004	1.8300e-004
tblVehicleEF	OBUS	1.4950e-003	1.7400e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.8100e-004	9.2700e-004
tblVehicleEF	OBUS	0.07	0.02
tblVehicleEF	OBUS	0.04	0.27
tblVehicleEF	OBUS	0.38	0.10
tblVehicleEF	OBUS	1.0690e-003	9.1600e-004
tblVehicleEF	OBUS	0.01	0.01

tblVehicleEF	OBUS	7.9500e-004	1.6900e-004
tblVehicleEF	OBUS	1.4950e-003	1.7400e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	7.8100e-004	9.2700e-004
tblVehicleEF	OBUS	0.09	0.03
tblVehicleEF	OBUS	0.04	0.27
tblVehicleEF	OBUS	0.42	0.11
tblVehicleEF	OBUS	0.01	8.2450e-003
tblVehicleEF	OBUS	0.01	3.2360e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.66
tblVehicleEF	OBUS	0.69	0.40
tblVehicleEF	OBUS	5.75	1.93
tblVehicleEF	OBUS	116.31	95.19
tblVehicleEF	OBUS	1,273.03	1,243.40
tblVehicleEF	OBUS	68.83	16.85
tblVehicleEF	OBUS	0.67	0.38
tblVehicleEF	OBUS	1.93	1.07
tblVehicleEF	OBUS	2.62	0.90
tblVehicleEF	OBUS	2.5300e-004	1.2200e-004
tblVehicleEF	OBUS	0.01	7.3770e-003
tblVehicleEF	OBUS	0.01	7.3770e-003
tblVehicleEF	OBUS	7.8200e-004	1.9900e-004
tblVehicleEF	OBUS	2.4200e-004	1.1600e-004
tblVehicleEF	OBUS	9.9080e-003	7.0430e-003
tblVehicleEF	OBUS	7.2000e-004	1.8300e-004

tblVehicleEF	OBUS	2.1920e-003	2.5300e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.1100e-003	1.2870e-003
tblVehicleEF	OBUS	0.07	0.02
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.37	0.09
tblVehicleEF	OBUS	1.1220e-003	9.0500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9000e-004	1.6700e-004
tblVehicleEF	OBUS	2.1920e-003	2.5300e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	1.1100e-003	1.2870e-003
tblVehicleEF	OBUS	0.09	0.03
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.40	0.10
tblVehicleEF	OBUS	0.01	8.0300e-003
tblVehicleEF	OBUS	0.01	3.1500e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.31	0.67
tblVehicleEF	OBUS	0.68	0.39
tblVehicleEF	OBUS	6.15	2.06
tblVehicleEF	OBUS	103.03	97.88
tblVehicleEF	OBUS	1,273.03	1,243.39
tblVehicleEF	OBUS	68.83	17.08
tblVehicleEF	OBUS	0.62	0.43

tblVehicleEF	OBUS	2.02	1.12
tblVehicleEF	OBUS	2.67	0.91
tblVehicleEF	OBUS	3.6500e-004	1.5800e-004
tblVehicleEF	OBUS	0.01	7.3770e-003
tblVehicleEF	OBUS	7.8200e-004	1.9900e-004
tblVehicleEF	OBUS	3.4900e-004	1.5100e-004
tblVehicleEF	OBUS	9.9080e-003	7.0430e-003
tblVehicleEF	OBUS	7.2000e-004	1.8300e-004
tblVehicleEF	OBUS	1.5550e-003	1.7750e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.6300e-004	9.0000e-004
tblVehicleEF	OBUS	0.07	0.02
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.39	0.10
tblVehicleEF	OBUS	9.9500e-004	9.3000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9600e-004	1.6900e-004
tblVehicleEF	OBUS	1.5550e-003	1.7750e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	7.6300e-004	9.0000e-004
tblVehicleEF	OBUS	0.09	0.03
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.42	0.11
tblVehicleEF	SBUS	0.88	0.09
tblVehicleEF	SBUS	0.01	5.0500e-003

tblVehicleEF	SBUS	0.07	7.4940e-003
tblVehicleEF	SBUS	7.89	3.52
tblVehicleEF	SBUS	0.84	0.43
tblVehicleEF	SBUS	7.67	0.99
tblVehicleEF	SBUS	1,153.25	346.55
tblVehicleEF	SBUS	1,098.50	1,026.23
tblVehicleEF	SBUS	52.01	6.29
tblVehicleEF	SBUS	10.62	2.61
tblVehicleEF	SBUS	4.93	3.41
tblVehicleEF	SBUS	12.73	1.16
tblVehicleEF	SBUS	0.01	2.3940e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.4700e-004	7.5000e-005
tblVehicleEF	SBUS	0.01	2.2900e-003
tblVehicleEF	SBUS	2.6880e-003	2.6300e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	6.8700e-004	6.9000e-005
tblVehicleEF	SBUS	3.4480e-003	1.1240e-003
tblVehicleEF	SBUS	0.03	9.7980e-003
tblVehicleEF	SBUS	0.96	0.40
tblVehicleEF	SBUS	1.6800e-003	6.5800e-004
tblVehicleEF	SBUS	0.12	0.07
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.40	0.04
tblVehicleEF	SBUS	0.01	3.3130e-003
tblVehicleEF	SBUS	0.01	9.8310e-003

tblVehicleEF	SBUS	6.5300e-004	6.2000e-005
tblVehicleEF	SBUS	3.4480e-003	1.1240e-003
tblVehicleEF	SBUS	0.03	9.7980e-003
tblVehicleEF	SBUS	1.38	0.58
tblVehicleEF	SBUS	1.6800e-003	6.5800e-004
tblVehicleEF	SBUS	0.14	0.08
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.44	0.05
tblVehicleEF	SBUS	0.88	0.09
tblVehicleEF	SBUS	0.01	5.1060e-003
tblVehicleEF	SBUS	0.06	6.6750e-003
tblVehicleEF	SBUS	7.76	3.49
tblVehicleEF	SBUS	0.86	0.43
tblVehicleEF	SBUS	6.22	0.80
tblVehicleEF	SBUS	1,206.53	351.36
tblVehicleEF	SBUS	1,098.50	1,026.24
tblVehicleEF	SBUS	52.01	5.98
tblVehicleEF	SBUS	10.96	2.64
tblVehicleEF	SBUS	4.65	3.21
tblVehicleEF	SBUS	12.69	1.16
tblVehicleEF	SBUS	0.01	2.0270e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.4700e-004	7.5000e-005
tblVehicleEF	SBUS	9.8410e-003	1.9390e-003
tblVehicleEF	SBUS	2.6880e-003	2.6300e-003

tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	6.8700e-004	6.9000e-005
tblVehicleEF	SBUS	5.0870e-003	1.6330e-003
tblVehicleEF	SBUS	0.03	9.9100e-003
tblVehicleEF	SBUS	0.95	0.40
tblVehicleEF	SBUS	2.4200e-003	9.0400e-004
tblVehicleEF	SBUS	0.12	0.07
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.36	0.04
tblVehicleEF	SBUS	0.01	3.3590e-003
tblVehicleEF	SBUS	0.01	9.8310e-003
tblVehicleEF	SBUS	6.2900e-004	5.9000e-005
tblVehicleEF	SBUS	5.0870e-003	1.6330e-003
tblVehicleEF	SBUS	0.03	9.9100e-003
tblVehicleEF	SBUS	1.37	0.58
tblVehicleEF	SBUS	2.4200e-003	9.0400e-004
tblVehicleEF	SBUS	0.14	0.08
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.88	0.09
tblVehicleEF	SBUS	0.01	5.0340e-003
tblVehicleEF	SBUS	0.07	7.6750e-003
tblVehicleEF	SBUS	8.07	3.55
tblVehicleEF	SBUS	0.84	0.43
tblVehicleEF	SBUS	7.93	1.02
tblVehicleEF	SBUS	1,079.68	339.91
tblVehicleEF	SBUS	1,098.50	1,026.22

tblVehicleEF	SBUS	52.01	6.35
tblVehicleEF	SBUS	10.15	2.56
tblVehicleEF	SBUS	4.85	3.35
tblVehicleEF	SBUS	12.73	1.16
tblVehicleEF	SBUS	0.01	2.9000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.4700e-004	7.5000e-005
tblVehicleEF	SBUS	0.01	2.7750e-003
tblVehicleEF	SBUS	2.6880e-003	2.6300e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	6.8700e-004	6.9000e-005
tblVehicleEF	SBUS	3.6280e-003	1.0900e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.96	0.40
tblVehicleEF	SBUS	1.6230e-003	6.2800e-004
tblVehicleEF	SBUS	0.12	0.07
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.01	3.2510e-003
tblVehicleEF	SBUS	0.01	9.8310e-003
tblVehicleEF	SBUS	6.5700e-004	6.3000e-005
tblVehicleEF	SBUS	3.6280e-003	1.0900e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.38	0.58
tblVehicleEF	SBUS	1.6230e-003	6.2800e-004
tblVehicleEF	SBUS	0.14	0.08

tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.45	0.05
tblVehicleEF	UBUS	2.95	5.86
tblVehicleEF	UBUS	0.05	9.5110e-003
tblVehicleEF	UBUS	12.36	45.55
tblVehicleEF	UBUS	8.85	0.70
tblVehicleEF	UBUS	2,008.92	1,975.40
tblVehicleEF	UBUS	88.02	7.56
tblVehicleEF	UBUS	11.49	0.47
tblVehicleEF	UBUS	15.98	0.07
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.2830e-003
tblVehicleEF	UBUS	9.7400e-004	8.6000e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.14	3.1350e-003
tblVehicleEF	UBUS	8.9600e-004	7.9000e-005
tblVehicleEF	UBUS	4.1600e-003	2.8200e-004
tblVehicleEF	UBUS	0.07	3.0090e-003
tblVehicleEF	UBUS	2.3210e-003	2.0300e-004
tblVehicleEF	UBUS	0.96	0.09
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.66	0.04
tblVehicleEF	UBUS	0.01	1.2390e-003
tblVehicleEF	UBUS	1.0390e-003	7.5000e-005
tblVehicleEF	UBUS	4.1600e-003	2.8200e-004

tblVehicleEF	UBUS	0.07	3.0090e-003
tblVehicleEF	UBUS	2.3210e-003	2.0300e-004
tblVehicleEF	UBUS	4.03	5.98
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.72	0.04
tblVehicleEF	UBUS	2.95	5.86
tblVehicleEF	UBUS	0.04	8.8330e-003
tblVehicleEF	UBUS	12.41	45.55
tblVehicleEF	UBUS	7.66	0.62
tblVehicleEF	UBUS	2,008.92	1,975.40
tblVehicleEF	UBUS	88.02	7.41
tblVehicleEF	UBUS	10.84	0.46
tblVehicleEF	UBUS	15.93	0.07
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.2830e-003
tblVehicleEF	UBUS	0.15	3.2830e-003
tblVehicleEF	UBUS	9.7400e-004	8.6000e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.14	3.1350e-003
tblVehicleEF	UBUS	8.9600e-004	7.9000e-005
tblVehicleEF	UBUS	5.9230e-003	4.1900e-004
tblVehicleEF	UBUS	0.07	3.1760e-003
tblVehicleEF	UBUS	3.1960e-003	2.9600e-004
tblVehicleEF	UBUS	0.97	0.09
tblVehicleEF	UBUS	0.02	0.01

tblVehicleEF	UBUS	0.60	0.04
tblVehicleEF	UBUS	0.01	1.2390e-003
tblVehicleEF	UBUS	1.0190e-003	7.3000e-005
tblVehicleEF	UBUS	5.9230e-003	4.1900e-004
tblVehicleEF	UBUS	0.07	3.1760e-003
tblVehicleEF	UBUS	3.1960e-003	2.9600e-004
tblVehicleEF	UBUS	4.04	5.98
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	0.66	0.04
tblVehicleEF	UBUS	2.95	5.86
tblVehicleEF	UBUS	0.05	9.6600e-003
tblVehicleEF	UBUS	12.34	45.55
tblVehicleEF	UBUS	9.07	0.72
tblVehicleEF	UBUS	2,008.92	1,975.40
tblVehicleEF	UBUS	88.02	7.58
tblVehicleEF	UBUS	11.27	0.46
tblVehicleEF	UBUS	15.99	0.07
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.2830e-003
tblVehicleEF	UBUS	9.7400e-004	8.6000e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.14	3.1350e-003
tblVehicleEF	UBUS	8.9600e-004	7.9000e-005
tblVehicleEF	UBUS	4.7740e-003	2.9500e-004
tblVehicleEF	UBUS	0.09	3.3430e-003

tblVehicleEF	UBUS	2.4590e-003	1.9900e-004
tblVehicleEF	UBUS	0.96	0.09
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	0.67	0.04
tblVehicleEF	UBUS	0.01	1.2390e-003
tblVehicleEF	UBUS	1.0430e-003	7.5000e-005
tblVehicleEF	UBUS	4.7740e-003	2.9500e-004
tblVehicleEF	UBUS	0.09	3.3430e-003
tblVehicleEF	UBUS	2.4590e-003	1.9900e-004
tblVehicleEF	UBUS	4.02	5.98
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	0.74	0.05
tblVehicleTrips	ST_TR	5.00	5.07
tblVehicleTrips	SU_TR	4.36	5.07
tblVehicleTrips	WD_TR	4.99	5.07

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	4.6000e-004	4.5700e-003	4.7500e-003	1.0000e-005	2.0000e-004	2.8000e-004	4.9000e-004	1.1000e-004	2.6000e-004	3.7000e-004	0.0000	0.5845	0.5845	1.8000e-004	0.0000	0.5891
Maximum	**4.6000e-004**	**4.5700e-003**	**4.7500e-003**	**1.0000e-005**	**2.0000e-004**	**2.8000e-004**	**4.9000e-004**	**1.1000e-004**	**2.6000e-004**	**3.7000e-004**	**0.0000**	**0.5845**	**0.5845**	**1.8000e-004**	**0.0000**	**0.5891**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	4.6000e-004	4.5700e-003	4.7500e-003	1.0000e-005	2.0000e-004	2.8000e-004	4.9000e-004	1.1000e-004	2.6000e-004	3.7000e-004	0.0000	0.5845	0.5845	1.8000e-004	0.0000	0.5891
Maximum	**4.6000e-004**	**4.5700e-003**	**4.7500e-003**	**1.0000e-005**	**2.0000e-004**	**2.8000e-004**	**4.9000e-004**	**1.1000e-004**	**2.6000e-004**	**3.7000e-004**	**0.0000**	**0.5845**	**0.5845**	**1.8000e-004**	**0.0000**	**0.5891**

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

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.8680	0.0853	3.7584	3.7700e-003		0.2276	0.2276		0.2276	0.2276	23.8993	49.7165	73.6158	0.0750	1.6200e-003	75.9734
Energy	8.1200e-003	0.0694	0.0295	4.4000e-004		5.6100e-003	5.6100e-003		5.6100e-003	5.6100e-003	0.0000	364.8327	364.8327	0.0170	4.6700e-003	366.6489
Mobile	0.3847	0.8480	4.3856	0.0137	1.4741	0.0103	1.4844	0.3943	9.6000e-003	0.4039	0.0000	1,285.9399	1,285.9399	0.0955	0.0000	1,288.3267
Waste						0.0000	0.0000		0.0000	0.0000	21.0096	0.0000	21.0096	1.2416	0.0000	52.0503
Water						0.0000	0.0000		0.0000	0.0000	4.6508	71.1060	75.7568	0.4816	0.0121	91.3948
Total	**2.2608**	**1.0026**	**8.1735**	**0.0179**	**1.4741**	**0.2435**	**1.7176**	**0.3943**	**0.2429**	**0.6371**	**49.5597**	**1,771.5951**	**1,821.1548**	**1.9106**	**0.0184**	**1,874.3940**

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	1.1359	0.0689	2.3459	3.9000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	52.4180	52.4180	4.6300e-003	8.9000e-004	52.7994
Energy	8.1200e-003	0.0694	0.0295	4.4000e-004		5.6100e-003	5.6100e-003		5.6100e-003	5.6100e-003	0.0000	364.8327	364.8327	0.0170	4.6700e-003	366.6489
Mobile	0.3847	0.8480	4.3856	0.0137	1.4741	0.0103	1.4844	0.3943	9.6000e-003	0.4039	0.0000	1,285.9399	1,285.9399	0.0955	0.0000	1,288.3267
Waste						0.0000	0.0000		0.0000	0.0000	21.0096	0.0000	21.0096	1.2416	0.0000	52.0503
Water						0.0000	0.0000		0.0000	0.0000	4.6508	71.1060	75.7568	0.4816	0.0121	91.3948
Total	**1.5287**	**0.9862**	**6.7610**	**0.0145**	**1.4741**	**0.0321**	**1.5062**	**0.3943**	**0.0314**	**0.4257**	**25.6604**	**1,774.2966**	**1,799.9570**	**1.8403**	**0.0176**	**1,851.2201**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**32.38**	**1.63**	**17.28**	**18.92**	**0.00**	**86.82**	**12.31**	**0.00**	**87.07**	**33.19**	**48.22**	**-0.15**	**1.16**	**3.68**	**3.97**	**1.24**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	11/11/2020	11/11/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	0.50	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	5	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9000e-004	0.0000	1.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-004	4.5600e-003	4.6900e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.6000e-004	2.6000e-004	0.0000	0.5692	0.5692	1.8000e-004	0.0000	0.5738
Total	**4.5000e-004**	**4.5600e-003**	**4.6900e-003**	**1.0000e-005**	**1.9000e-004**	**2.8000e-004**	**4.7000e-004**	**1.0000e-004**	**2.6000e-004**	**3.6000e-004**	**0.0000**	**0.5692**	**0.5692**	**1.8000e-004**	**0.0000**	**0.5738**

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	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0153	0.0153	0.0000	0.0000	0.0153
Total	**1.0000e-005**	**1.0000e-005**	**6.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0153**	**0.0153**	**0.0000**	**0.0000**	**0.0153**

3.2 Site Preparation - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9000e-004	0.0000	1.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-004	4.5600e-003	4.6900e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.6000e-004	2.6000e-004	0.0000	0.5692	0.5692	1.8000e-004	0.0000	0.5738
Total	**4.5000e-004**	**4.5600e-003**	**4.6900e-003**	**1.0000e-005**	**1.9000e-004**	**2.8000e-004**	**4.7000e-004**	**1.0000e-004**	**2.6000e-004**	**3.6000e-004**	**0.0000**	**0.5692**	**0.5692**	**1.8000e-004**	**0.0000**	**0.5738**

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	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0153	0.0153	0.0000	0.0000	0.0153
Total	**1.0000e-005**	**1.0000e-005**	**6.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0153**	**0.0153**	**0.0000**	**0.0000**	**0.0153**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3847	0.8480	4.3856	0.0137	1.4741	0.0103	1.4844	0.3943	9.6000e-003	0.4039	0.0000	1,285.9399	1,285.9399	0.0955	0.0000	1,288.3267
Unmitigated	0.3847	0.8480	4.3856	0.0137	1.4741	0.0103	1.4844	0.3943	9.6000e-003	0.4039	0.0000	1,285.9399	1,285.9399	0.0955	0.0000	1,288.3267

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Mobile Home Park	1,140.75	1,140.75	1140.75	3,898,116	3,898,116
Total	1,140.75	1,140.75	1,140.75	3,898,116	3,898,116

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Mobile Home Park	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Mobile Home Park	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

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	284.5132	284.5132	0.0155	3.2000e-003	285.8521
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	284.5132	284.5132	0.0155	3.2000e-003	285.8521
NaturalGas Mitigated	8.1200e-003	0.0694	0.0295	4.4000e-004		5.6100e-003	5.6100e-003		5.6100e-003	5.6100e-003	0.0000	80.3195	80.3195	1.5400e-003	1.4700e-003	80.7968
NaturalGas Unmitigated	8.1200e-003	0.0694	0.0295	4.4000e-004		5.6100e-003	5.6100e-003		5.6100e-003	5.6100e-003	0.0000	80.3195	80.3195	1.5400e-003	1.4700e-003	80.7968

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					
Mobile Home Park	1.50513e+006	8.1200e-003	0.0694	0.0295	4.4000e-004		5.6100e-003	5.6100e-003		5.6100e-003	5.6100e-003	0.0000	80.3195	80.3195	1.5400e-003	1.4700e-003	80.7968
Total		**8.1200e-003**	**0.0694**	**0.0295**	**4.4000e-004**		**5.6100e-003**	**5.6100e-003**		**5.6100e-003**	**5.6100e-003**	**0.0000**	**80.3195**	**80.3195**	**1.5400e-003**	**1.4700e-003**	**80.7968**

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					
Mobile Home Park	1.50513e+006	8.1200e-003	0.0694	0.0295	4.4000e-004		5.6100e-003	5.6100e-003		5.6100e-003	5.6100e-003	0.0000	80.3195	80.3195	1.5400e-003	1.4700e-003	80.7968
Total		**8.1200e-003**	**0.0694**	**0.0295**	**4.4000e-004**		**5.6100e-003**	**5.6100e-003**		**5.6100e-003**	**5.6100e-003**	**0.0000**	**80.3195**	**80.3195**	**1.5400e-003**	**1.4700e-003**	**80.7968**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Mobile Home Park	1.17461e+006	284.5132	0.0155	3.2000e-003	285.8521
Total		**284.5132**	**0.0155**	**3.2000e-003**	**285.8521**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Mobile Home Park	1.17461e+006	284.5132	0.0155	3.2000e-003	285.8521
Total		**284.5132**	**0.0155**	**3.2000e-003**	**285.8521**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1359	0.0689	2.3459	3.9000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	52.4180	52.4180	4.6300e-003	8.9000e-004	52.7994
Unmitigated	1.8680	0.0853	3.7584	3.7700e-003		0.2276	0.2276		0.2276	0.2276	23.8993	49.7165	73.6158	0.0750	1.6200e-003	75.9734

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	0.0845					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9757					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.7370	0.0584	1.4303	3.6500e-003		0.2148	0.2148		0.2148	0.2148	23.8993	45.9262	69.8255	0.0713	1.6200e-003	72.0907
Landscaping	0.0709	0.0269	2.3281	1.2000e-004		0.0128	0.0128		0.0128	0.0128	0.0000	3.7903	3.7903	3.7000e-003	0.0000	3.8827
Total	**1.8680**	**0.0853**	**3.7584**	**3.7700e-003**		**0.2276**	**0.2276**		**0.2276**	**0.2276**	**23.8993**	**49.7165**	**73.6158**	**0.0750**	**1.6200e-003**	**75.9734**

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	0.0845					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9757					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.9100e-003	0.0420	0.0179	2.7000e-004		3.3900e-003	3.3900e-003		3.3900e-003	3.3900e-003	0.0000	48.6278	48.6278	9.3000e-004	8.9000e-004	48.9167
Landscaping	0.0709	0.0269	2.3281	1.2000e-004		0.0128	0.0128		0.0128	0.0128	0.0000	3.7903	3.7903	3.7000e-003	0.0000	3.8827
Total	**1.1359**	**0.0689**	**2.3459**	**3.9000e-004**		**0.0162**	**0.0162**		**0.0162**	**0.0162**	**0.0000**	**52.4180**	**52.4180**	**4.6300e-003**	**8.9000e-004**	**52.7994**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	75.7568	0.4816	0.0121	91.3948
Unmitigated	75.7568	0.4816	0.0121	91.3948

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Mobile Home Park	14.6597 / 9.24196	75.7568	0.4816	0.0121	91.3948
Total		**75.7568**	**0.4816**	**0.0121**	**91.3948**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Mobile Home Park	14.6597 / 9.24196	75.7568	0.4816	0.0121	91.3948
Total		**75.7568**	**0.4816**	**0.0121**	**91.3948**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	21.0096	1.2416	0.0000	52.0503
Unmitigated	21.0096	1.2416	0.0000	52.0503

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Mobile Home Park	103.5	21.0096	1.2416	0.0000	52.0503
Total		**21.0096**	**1.2416**	**0.0000**	**52.0503**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Mobile Home Park	103.5	21.0096	1.2416	0.0000	52.0503
Total		**21.0096**	**1.2416**	**0.0000**	**52.0503**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Imperial Avalon

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,208.00	Space	10.87	483,200.00	0
Other Asphalt Surfaces	333.72	1000sqft	7.66	333,724.00	0
Parking Lot	26.00	Space	0.23	10,400.00	0
City Park	4.77	Acre	4.77	207,781.20	0
Health Club	18.42	1000sqft	0.42	18,416.00	0
Quality Restaurant	10.35	1000sqft	0.24	10,352.00	0
Recreational Swimming Pool	1.70	1000sqft	0.04	1,700.00	0
Apartments Mid Rise	833.00	Dwelling Unit	21.92	902,694.00	2382
Condo/Townhouse High Rise	380.00	Dwelling Unit	5.94	625,000.00	1087

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	534	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor Source: Southern California Edison, 2019 Sustainability Report.

Land Use - See CalEEMod Input table notes.
Construction Phase - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment -

Trips and VMT -

Demolition -

Grading -

Vehicle Trips - Per traffic study.

Vehicle Emission Factors - EMFAC 2017

Vehicle Emission Factors - EMFAC 2017

Vehicle Emission Factors - EMFAC 2017

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations. All off-road diesel-powered construction equipment greater than 50 horsepower shall meet Tier 4 emission standards per PDF.

Area Mitigation - SCAQMD Rule 445 prohibits the installation of any open or enclosed permanently installed wood burning device.

Energy Mitigation - % Improvement based on efficiency of 2019 Title 24 Standards compared to 2016 Title 24 Standards.

Water Mitigation -

Waste Mitigation -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - "Other Construction Equipment" = Vibratory Hammer Pile Driver

Off-road Equipment - "Other Construction Equipment" = Vibratory Hammer Pile Driver

Off-road Equipment - Per construction questionnaire.

Imperial Avalon - Los Angeles-South Coast County, Annual

Architectural Coating -
Area Coating -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	1031193	818775
tblAreaCoating	Area_Residential_Interior	3093580	2456325
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	70.00	20.00
tblConstructionPhase	NumDays	110.00	240.00
tblConstructionPhase	NumDays	1,110.00	1,180.00
tblConstructionPhase	NumDays	75.00	40.00
tblConstructionPhase	NumDays	75.00	315.00
tblConstructionPhase	NumDays	70.00	10.00
tblConstructionPhase	NumDays	110.00	60.00
tblConstructionPhase	NumDays	1,110.00	2.00
tblConstructionPhase	NumDays	75.00	5.00
tblConstructionPhase	PhaseEndDate	5/27/2022	3/18/2022
tblConstructionPhase	PhaseEndDate	2/3/2023	2/17/2023
tblConstructionPhase	PhaseEndDate	10/8/2027	2/12/2027
tblConstructionPhase	PhaseEndDate	4/23/2032	2/17/2023
tblConstructionPhase	PhaseEndDate	11/19/2032	2/12/2027

tblConstructionPhase	PhaseEndDate	9/2/2022	3/18/2022
tblConstructionPhase	PhaseEndDate	7/7/2023	2/17/2023
tblConstructionPhase	PhaseEndDate	1/9/2032	2/12/2027
tblConstructionPhase	PhaseEndDate	8/6/2032	2/17/2023
tblConstructionPhase	PhaseStartDate	9/3/2022	3/21/2022
tblConstructionPhase	PhaseStartDate	7/8/2023	8/8/2022
tblConstructionPhase	PhaseStartDate	1/10/2032	12/26/2022
tblConstructionPhase	PhaseStartDate	8/7/2032	12/1/2025
tblConstructionPhase	PhaseStartDate	5/28/2022	3/7/2022
tblConstructionPhase	PhaseStartDate	2/4/2023	11/26/2022
tblConstructionPhase	PhaseStartDate	10/9/2027	2/11/2027
tblConstructionPhase	PhaseStartDate	4/24/2032	2/13/2023
tblGrading	MaterialImported	0.00	120,000.00
tblLandUse	LandUseSquareFeet	333,720.00	333,724.00
tblLandUse	LandUseSquareFeet	18,420.00	18,416.00
tblLandUse	LandUseSquareFeet	10,350.00	10,352.00
tblLandUse	LandUseSquareFeet	833,000.00	902,694.00
tblLandUse	LandUseSquareFeet	380,000.00	625,000.00
tblOffRoadEquipment	HorsePower	172.00	630.00
tblOffRoadEquipment	HorsePower	172.00	630.00
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Cranes

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	534
tblVehicleEF	HHD	0.42	0.03
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	0.06	0.00
tblVehicleEF	HHD	1.53	6.77

tblVehicleEF	HHD	1.10	0.49
tblVehicleEF	HHD	3.38	7.9310e-003
tblVehicleEF	HHD	4,274.90	1,064.03
tblVehicleEF	HHD	1,546.51	1,297.06
tblVehicleEF	HHD	10.87	0.07
tblVehicleEF	HHD	13.18	5.66
tblVehicleEF	HHD	1.99	2.63
tblVehicleEF	HHD	19.41	2.34
tblVehicleEF	HHD	6.3460e-003	2.6920e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.0710e-003	0.02
tblVehicleEF	HHD	1.0500e-004	1.0000e-006
tblVehicleEF	HHD	6.0720e-003	2.5750e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8470e-003	8.9010e-003
tblVehicleEF	HHD	5.8080e-003	0.02
tblVehicleEF	HHD	9.6000e-005	1.0000e-006
tblVehicleEF	HHD	9.8000e-005	3.0000e-006
tblVehicleEF	HHD	4.1290e-003	1.1700e-004
tblVehicleEF	HHD	0.39	0.45
tblVehicleEF	HHD	7.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	3.4900e-004	5.8600e-004
tblVehicleEF	HHD	0.06	2.0000e-006
tblVehicleEF	HHD	0.04	9.8690e-003
tblVehicleEF	HHD	0.01	0.01

tblVehicleEF	HHD	1.6400e-004	1.0000e-006
tblVehicleEF	HHD	9.8000e-005	3.0000e-006
tblVehicleEF	HHD	4.1290e-003	1.1700e-004
tblVehicleEF	HHD	0.46	0.52
tblVehicleEF	HHD	7.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.20	0.11
tblVehicleEF	HHD	3.4900e-004	5.8600e-004
tblVehicleEF	HHD	0.07	3.0000e-006
tblVehicleEF	HHD	0.40	0.03
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	0.05	0.00
tblVehicleEF	HHD	1.11	6.68
tblVehicleEF	HHD	1.11	0.49
tblVehicleEF	HHD	3.20	7.5300e-003
tblVehicleEF	HHD	4,528.88	1,051.40
tblVehicleEF	HHD	1,546.51	1,297.06
tblVehicleEF	HHD	10.87	0.07
tblVehicleEF	HHD	13.60	5.40
tblVehicleEF	HHD	1.88	2.49
tblVehicleEF	HHD	19.40	2.34
tblVehicleEF	HHD	5.3500e-003	2.3580e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.0710e-003	0.02
tblVehicleEF	HHD	6.0710e-003	0.02
tblVehicleEF	HHD	1.0500e-004	1.0000e-006
tblVehicleEF	HHD	5.1190e-003	2.2560e-003

tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8470e-003	8.9010e-003
tblVehicleEF	HHD	5.8080e-003	0.02
tblVehicleEF	HHD	9.6000e-005	1.0000e-006
tblVehicleEF	HHD	1.4800e-004	5.0000e-006
tblVehicleEF	HHD	4.2300e-003	1.1900e-004
tblVehicleEF	HHD	0.36	0.48
tblVehicleEF	HHD	1.0700e-004	3.0000e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	3.3700e-004	5.7200e-004
tblVehicleEF	HHD	0.06	2.0000e-006
tblVehicleEF	HHD	0.04	9.7510e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.6100e-004	1.0000e-006
tblVehicleEF	HHD	1.4800e-004	5.0000e-006
tblVehicleEF	HHD	4.2300e-003	1.1900e-004
tblVehicleEF	HHD	0.43	0.55
tblVehicleEF	HHD	1.0700e-004	3.0000e-006
tblVehicleEF	HHD	0.20	0.11
tblVehicleEF	HHD	3.3700e-004	5.7200e-004
tblVehicleEF	HHD	0.07	3.0000e-006
tblVehicleEF	HHD	0.45	0.03
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	0.06	0.00
tblVehicleEF	HHD	2.10	6.90
tblVehicleEF	HHD	1.10	0.49
tblVehicleEF	HHD	3.41	8.0070e-003

tblVehicleEF	HHD	3,924.17	1,081.47
tblVehicleEF	HHD	1,546.51	1,297.06
tblVehicleEF	HHD	10.87	0.07
tblVehicleEF	HHD	12.59	6.02
tblVehicleEF	HHD	1.96	2.58
tblVehicleEF	HHD	19.42	2.34
tblVehicleEF	HHD	7.7210e-003	3.1530e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.0710e-003	0.02
tblVehicleEF	HHD	1.0500e-004	1.0000e-006
tblVehicleEF	HHD	7.3870e-003	3.0160e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8470e-003	8.9010e-003
tblVehicleEF	HHD	5.8080e-003	0.02
tblVehicleEF	HHD	9.6000e-005	1.0000e-006
tblVehicleEF	HHD	9.4000e-005	3.0000e-006
tblVehicleEF	HHD	4.3350e-003	1.2900e-004
tblVehicleEF	HHD	0.42	0.42
tblVehicleEF	HHD	7.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	3.8300e-004	6.3100e-004
tblVehicleEF	HHD	0.06	2.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.6400e-004	1.0000e-006
tblVehicleEF	HHD	9.4000e-005	3.0000e-006

tblVehicleEF	HHD	4.3350e-003	1.2900e-004
tblVehicleEF	HHD	0.49	0.48
tblVehicleEF	HHD	7.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.20	0.11
tblVehicleEF	HHD	3.8300e-004	6.3100e-004
tblVehicleEF	HHD	0.07	3.0000e-006
tblVehicleEF	LDA	3.4500e-003	1.7040e-003
tblVehicleEF	LDA	2.9680e-003	0.03
tblVehicleEF	LDA	0.47	0.53
tblVehicleEF	LDA	0.75	1.73
tblVehicleEF	LDA	225.60	232.38
tblVehicleEF	LDA	46.96	45.54
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	1.8580e-003	1.4150e-003
tblVehicleEF	LDA	2.1030e-003	1.4930e-003
tblVehicleEF	LDA	1.7110e-003	1.3020e-003
tblVehicleEF	LDA	1.9330e-003	1.3730e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.6750e-003	6.1670e-003
tblVehicleEF	LDA	0.03	0.18
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	2.2590e-003	2.2990e-003
tblVehicleEF	LDA	4.8200e-004	4.5100e-004
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	8.9590e-003
tblVehicleEF	LDA	0.03	0.18
tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDA	3.6710e-003	1.8280e-003
tblVehicleEF	LDA	2.6440e-003	0.03
tblVehicleEF	LDA	0.52	0.58
tblVehicleEF	LDA	0.64	1.48
tblVehicleEF	LDA	236.09	242.91
tblVehicleEF	LDA	46.96	45.09
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.13
tblVehicleEF	LDA	1.8580e-003	1.4150e-003
tblVehicleEF	LDA	1.8580e-003	1.4150e-003
tblVehicleEF	LDA	2.1030e-003	1.4930e-003
tblVehicleEF	LDA	1.7110e-003	1.3020e-003
tblVehicleEF	LDA	1.9330e-003	1.3730e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	9.2220e-003	6.5540e-003
tblVehicleEF	LDA	0.03	0.17
tblVehicleEF	LDA	0.04	0.13
tblVehicleEF	LDA	2.3640e-003	2.4030e-003
tblVehicleEF	LDA	4.8000e-004	4.4600e-004
tblVehicleEF	LDA	0.04	0.06

tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	9.5230e-003
tblVehicleEF	LDA	0.03	0.17
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	3.3790e-003	1.6660e-003
tblVehicleEF	LDA	3.0360e-003	0.03
tblVehicleEF	LDA	0.46	0.51
tblVehicleEF	LDA	0.77	1.78
tblVehicleEF	LDA	221.77	228.54
tblVehicleEF	LDA	46.96	45.64
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	1.8580e-003	1.4150e-003
tblVehicleEF	LDA	2.1030e-003	1.4930e-003
tblVehicleEF	LDA	1.7110e-003	1.3020e-003
tblVehicleEF	LDA	1.9330e-003	1.3730e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.4980e-003	6.0420e-003
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.2200e-003	2.2610e-003
tblVehicleEF	LDA	4.8200e-004	4.5200e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08

tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	8.7770e-003
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDT1	9.4300e-003	4.0690e-003
tblVehicleEF	LDT1	7.9500e-003	0.05
tblVehicleEF	LDT1	1.09	0.90
tblVehicleEF	LDT1	1.69	1.86
tblVehicleEF	LDT1	292.89	277.98
tblVehicleEF	LDT1	59.74	54.78
tblVehicleEF	LDT1	0.10	0.06
tblVehicleEF	LDT1	0.09	0.18
tblVehicleEF	LDT1	2.7650e-003	1.8700e-003
tblVehicleEF	LDT1	2.8080e-003	1.8850e-003
tblVehicleEF	LDT1	2.5440e-003	1.7200e-003
tblVehicleEF	LDT1	2.5820e-003	1.7330e-003
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.49
tblVehicleEF	LDT1	0.11	0.21
tblVehicleEF	LDT1	2.9420e-003	2.7510e-003
tblVehicleEF	LDT1	6.2600e-004	5.4200e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.14	0.49
tblVehicleEF	LDT1	0.12	0.23
tblVehicleEF	LDT1	9.9640e-003	4.3300e-003
tblVehicleEF	LDT1	7.0580e-003	0.04
tblVehicleEF	LDT1	1.19	0.98
tblVehicleEF	LDT1	1.44	1.59
tblVehicleEF	LDT1	305.73	288.65
tblVehicleEF	LDT1	59.74	54.27
tblVehicleEF	LDT1	0.09	0.06
tblVehicleEF	LDT1	0.09	0.16
tblVehicleEF	LDT1	2.7650e-003	1.8700e-003
tblVehicleEF	LDT1	2.7650e-003	1.8700e-003
tblVehicleEF	LDT1	2.8080e-003	1.8850e-003
tblVehicleEF	LDT1	2.5440e-003	1.7200e-003
tblVehicleEF	LDT1	2.5820e-003	1.7330e-003
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.20	0.14
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.46
tblVehicleEF	LDT1	0.10	0.19
tblVehicleEF	LDT1	3.0710e-003	2.8560e-003
tblVehicleEF	LDT1	6.2200e-004	5.3700e-004
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.20	0.14
tblVehicleEF	LDT1	0.11	0.10

tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.13	0.46
tblVehicleEF	LDT1	0.10	0.21
tblVehicleEF	LDT1	9.2560e-003	3.9900e-003
tblVehicleEF	LDT1	8.1360e-003	0.05
tblVehicleEF	LDT1	1.06	0.87
tblVehicleEF	LDT1	1.74	1.92
tblVehicleEF	LDT1	288.17	274.07
tblVehicleEF	LDT1	59.74	54.89
tblVehicleEF	LDT1	0.10	0.06
tblVehicleEF	LDT1	0.10	0.18
tblVehicleEF	LDT1	2.7650e-003	1.8700e-003
tblVehicleEF	LDT1	2.8080e-003	1.8850e-003
tblVehicleEF	LDT1	2.5440e-003	1.7200e-003
tblVehicleEF	LDT1	2.5820e-003	1.7330e-003
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.16	0.58
tblVehicleEF	LDT1	0.11	0.22
tblVehicleEF	LDT1	2.8940e-003	2.7120e-003
tblVehicleEF	LDT1	6.2700e-004	5.4300e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.03	0.02

tblVehicleEF	LDT1	0.16	0.58
tblVehicleEF	LDT1	0.12	0.24
tblVehicleEF	LDT2	4.9450e-003	3.0040e-003
tblVehicleEF	LDT2	3.7720e-003	0.05
tblVehicleEF	LDT2	0.65	0.73
tblVehicleEF	LDT2	0.94	2.21
tblVehicleEF	LDT2	322.39	286.61
tblVehicleEF	LDT2	65.72	56.77
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.06	0.18
tblVehicleEF	LDT2	2.0690e-003	1.5480e-003
tblVehicleEF	LDT2	2.3470e-003	1.5640e-003
tblVehicleEF	LDT2	1.9030e-003	1.4250e-003
tblVehicleEF	LDT2	2.1580e-003	1.4380e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.34
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	3.2280e-003	2.8350e-003
tblVehicleEF	LDT2	6.7200e-004	5.6200e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.34

tblVehicleEF	LDT2	0.06	0.22
tblVehicleEF	LDT2	5.2500e-003	3.2070e-003
tblVehicleEF	LDT2	3.3720e-003	0.04
tblVehicleEF	LDT2	0.72	0.81
tblVehicleEF	LDT2	0.81	1.89
tblVehicleEF	LDT2	336.78	296.59
tblVehicleEF	LDT2	65.72	56.18
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.06	0.17
tblVehicleEF	LDT2	2.0690e-003	1.5480e-003
tblVehicleEF	LDT2	2.0690e-003	1.5480e-003
tblVehicleEF	LDT2	2.3470e-003	1.5640e-003
tblVehicleEF	LDT2	1.9030e-003	1.4250e-003
tblVehicleEF	LDT2	2.1580e-003	1.4380e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.32
tblVehicleEF	LDT2	0.05	0.18
tblVehicleEF	LDT2	3.3730e-003	2.9340e-003
tblVehicleEF	LDT2	6.7000e-004	5.5600e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.32

tblVehicleEF	LDT2	0.05	0.20
tblVehicleEF	LDT2	4.8460e-003	2.9410e-003
tblVehicleEF	LDT2	3.8580e-003	0.05
tblVehicleEF	LDT2	0.63	0.71
tblVehicleEF	LDT2	0.97	2.29
tblVehicleEF	LDT2	317.09	282.95
tblVehicleEF	LDT2	65.72	56.90
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.06	0.19
tblVehicleEF	LDT2	2.0690e-003	1.5480e-003
tblVehicleEF	LDT2	2.3470e-003	1.5640e-003
tblVehicleEF	LDT2	1.9030e-003	1.4250e-003
tblVehicleEF	LDT2	2.1580e-003	1.4380e-003
tblVehicleEF	LDT2	0.03	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.40
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	3.1750e-003	2.7990e-003
tblVehicleEF	LDT2	6.7300e-004	5.6300e-004
tblVehicleEF	LDT2	0.03	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.40
tblVehicleEF	LDT2	0.06	0.23

tblVehicleEF	LHD1	4.2560e-003	4.5300e-003
tblVehicleEF	LHD1	6.1810e-003	3.2190e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.47	0.36
tblVehicleEF	LHD1	1.90	0.92
tblVehicleEF	LHD1	8.96	8.48
tblVehicleEF	LHD1	567.73	600.46
tblVehicleEF	LHD1	27.87	10.55
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.56	0.34
tblVehicleEF	LHD1	0.72	0.25
tblVehicleEF	LHD1	8.3000e-004	9.0000e-004
tblVehicleEF	LHD1	0.01	9.9110e-003
tblVehicleEF	LHD1	7.6280e-003	5.1900e-003
tblVehicleEF	LHD1	7.3300e-004	2.2200e-004
tblVehicleEF	LHD1	7.9400e-004	8.6100e-004
tblVehicleEF	LHD1	2.5990e-003	2.4780e-003
tblVehicleEF	LHD1	7.2780e-003	4.9400e-003
tblVehicleEF	LHD1	6.7400e-004	2.0400e-004
tblVehicleEF	LHD1	2.2910e-003	1.7550e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4720e-003	1.1400e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.25	0.42
tblVehicleEF	LHD1	0.17	0.05

tblVehicleEF	LHD1	8.9000e-005	8.2000e-005
tblVehicleEF	LHD1	5.5510e-003	5.8510e-003
tblVehicleEF	LHD1	3.1400e-004	1.0400e-004
tblVehicleEF	LHD1	2.2910e-003	1.7550e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.4720e-003	1.1400e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.25	0.42
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD1	4.2560e-003	4.5400e-003
tblVehicleEF	LHD1	6.2820e-003	3.2650e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.48	0.37
tblVehicleEF	LHD1	1.81	0.88
tblVehicleEF	LHD1	8.96	8.48
tblVehicleEF	LHD1	567.73	600.47
tblVehicleEF	LHD1	27.87	10.48
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.52	0.32
tblVehicleEF	LHD1	0.69	0.24
tblVehicleEF	LHD1	8.3000e-004	9.0000e-004
tblVehicleEF	LHD1	0.01	9.9110e-003
tblVehicleEF	LHD1	7.6280e-003	5.1900e-003
tblVehicleEF	LHD1	7.6280e-003	5.1900e-003
tblVehicleEF	LHD1	7.3300e-004	2.2200e-004

tblVehicleEF	LHD1	7.9400e-004	8.6100e-004
tblVehicleEF	LHD1	2.5990e-003	2.4780e-003
tblVehicleEF	LHD1	7.2780e-003	4.9400e-003
tblVehicleEF	LHD1	6.7400e-004	2.0400e-004
tblVehicleEF	LHD1	3.4170e-003	2.6250e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.0400e-003	1.5850e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.25	0.40
tblVehicleEF	LHD1	0.16	0.05
tblVehicleEF	LHD1	8.9000e-005	8.2000e-005
tblVehicleEF	LHD1	5.5510e-003	5.8510e-003
tblVehicleEF	LHD1	3.1200e-004	1.0400e-004
tblVehicleEF	LHD1	3.4170e-003	2.6250e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.0400e-003	1.5850e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.25	0.40
tblVehicleEF	LHD1	0.18	0.05
tblVehicleEF	LHD1	4.2560e-003	4.5290e-003
tblVehicleEF	LHD1	6.1560e-003	3.2070e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.47	0.36
tblVehicleEF	LHD1	1.91	0.93

tblVehicleEF	LHD1	8.96	8.48
tblVehicleEF	LHD1	567.73	600.45
tblVehicleEF	LHD1	27.87	10.56
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.55	0.34
tblVehicleEF	LHD1	0.73	0.25
tblVehicleEF	LHD1	8.3000e-004	9.0000e-004
tblVehicleEF	LHD1	0.01	9.9110e-003
tblVehicleEF	LHD1	7.6280e-003	5.1900e-003
tblVehicleEF	LHD1	7.3300e-004	2.2200e-004
tblVehicleEF	LHD1	7.9400e-004	8.6100e-004
tblVehicleEF	LHD1	2.5990e-003	2.4780e-003
tblVehicleEF	LHD1	7.2780e-003	4.9400e-003
tblVehicleEF	LHD1	6.7400e-004	2.0400e-004
tblVehicleEF	LHD1	2.3510e-003	1.8010e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4360e-003	1.1130e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.28	0.45
tblVehicleEF	LHD1	0.17	0.05
tblVehicleEF	LHD1	8.9000e-005	8.2000e-005
tblVehicleEF	LHD1	5.5510e-003	5.8510e-003
tblVehicleEF	LHD1	3.1400e-004	1.0500e-004
tblVehicleEF	LHD1	2.3510e-003	1.8010e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.03

tblVehicleEF	LHD1	1.4360e-003	1.1130e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.28	0.45
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD2	3.0070e-003	3.0890e-003
tblVehicleEF	LHD2	2.5890e-003	2.5840e-003
tblVehicleEF	LHD2	4.6140e-003	6.9570e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.22	0.27
tblVehicleEF	LHD2	0.99	0.57
tblVehicleEF	LHD2	13.53	13.01
tblVehicleEF	LHD2	591.52	602.25
tblVehicleEF	LHD2	24.15	7.76
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.27	0.43
tblVehicleEF	LHD2	0.35	0.17
tblVehicleEF	LHD2	1.0680e-003	1.3850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.1440e-003	9.4110e-003
tblVehicleEF	LHD2	3.9000e-004	1.2400e-004
tblVehicleEF	LHD2	1.0220e-003	1.3250e-003
tblVehicleEF	LHD2	2.6890e-003	2.6790e-003
tblVehicleEF	LHD2	6.8210e-003	8.9900e-003
tblVehicleEF	LHD2	3.5800e-004	1.1400e-004
tblVehicleEF	LHD2	7.3800e-004	1.0100e-003
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	5.2900e-004	6.9100e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.21
tblVehicleEF	LHD2	0.06	0.03
tblVehicleEF	LHD2	1.3200e-004	1.2400e-004
tblVehicleEF	LHD2	5.7530e-003	5.8170e-003
tblVehicleEF	LHD2	2.5900e-004	7.7000e-005
tblVehicleEF	LHD2	7.3800e-004	1.0100e-003
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.2900e-004	6.9100e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.05	0.21
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	3.0070e-003	3.0960e-003
tblVehicleEF	LHD2	2.6110e-003	2.6040e-003
tblVehicleEF	LHD2	4.4830e-003	6.7190e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.22	0.27
tblVehicleEF	LHD2	0.95	0.55
tblVehicleEF	LHD2	13.53	13.01
tblVehicleEF	LHD2	591.52	602.26
tblVehicleEF	LHD2	24.15	7.72
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.26	0.41
tblVehicleEF	LHD2	0.34	0.16
tblVehicleEF	LHD2	1.0680e-003	1.3850e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.1440e-003	9.4110e-003
tblVehicleEF	LHD2	7.1440e-003	9.4110e-003
tblVehicleEF	LHD2	3.9000e-004	1.2400e-004
tblVehicleEF	LHD2	1.0220e-003	1.3250e-003
tblVehicleEF	LHD2	2.6890e-003	2.6790e-003
tblVehicleEF	LHD2	6.8210e-003	8.9900e-003
tblVehicleEF	LHD2	3.5800e-004	1.1400e-004
tblVehicleEF	LHD2	1.0990e-003	1.5050e-003
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.3000e-004	9.5700e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.06	0.03
tblVehicleEF	LHD2	1.3200e-004	1.2400e-004
tblVehicleEF	LHD2	5.7530e-003	5.8170e-003
tblVehicleEF	LHD2	2.5800e-004	7.6000e-005
tblVehicleEF	LHD2	1.0990e-003	1.5050e-003
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.3000e-004	9.5700e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	3.0070e-003	3.0880e-003
tblVehicleEF	LHD2	2.5830e-003	2.5790e-003

tblVehicleEF	LHD2	4.6410e-003	7.0060e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.22	0.27
tblVehicleEF	LHD2	1.00	0.58
tblVehicleEF	LHD2	13.53	13.01
tblVehicleEF	LHD2	591.52	602.25
tblVehicleEF	LHD2	24.15	7.77
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.27	0.43
tblVehicleEF	LHD2	0.36	0.17
tblVehicleEF	LHD2	1.0680e-003	1.3850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.1440e-003	9.4110e-003
tblVehicleEF	LHD2	3.9000e-004	1.2400e-004
tblVehicleEF	LHD2	1.0220e-003	1.3250e-003
tblVehicleEF	LHD2	2.6890e-003	2.6790e-003
tblVehicleEF	LHD2	6.8210e-003	8.9900e-003
tblVehicleEF	LHD2	3.5800e-004	1.1400e-004
tblVehicleEF	LHD2	7.2600e-004	1.0070e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.0900e-004	6.6400e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.23
tblVehicleEF	LHD2	0.06	0.03
tblVehicleEF	LHD2	1.3200e-004	1.2400e-004
tblVehicleEF	LHD2	5.7530e-003	5.8170e-003

tblVehicleEF	LHD2	2.5900e-004	7.7000e-005
tblVehicleEF	LHD2	7.2600e-004	1.0070e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.0900e-004	6.6400e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.06	0.23
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	MCY	0.56	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	18.22	18.36
tblVehicleEF	MCY	9.76	8.64
tblVehicleEF	MCY	191.62	224.56
tblVehicleEF	MCY	42.89	58.24
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.6300e-003	2.6240e-003
tblVehicleEF	MCY	3.4230e-003	2.9930e-003
tblVehicleEF	MCY	2.4530e-003	2.4480e-003
tblVehicleEF	MCY	3.2050e-003	2.8030e-003
tblVehicleEF	MCY	1.05	1.07
tblVehicleEF	MCY	0.58	0.60
tblVehicleEF	MCY	0.63	0.64
tblVehicleEF	MCY	2.58	2.58
tblVehicleEF	MCY	0.51	1.58
tblVehicleEF	MCY	2.00	1.78
tblVehicleEF	MCY	2.2930e-003	2.2220e-003

tblVehicleEF	MCY	6.4700e-004	5.7600e-004
tblVehicleEF	MCY	1.05	1.07
tblVehicleEF	MCY	0.58	0.60
tblVehicleEF	MCY	0.63	0.64
tblVehicleEF	MCY	3.23	3.24
tblVehicleEF	MCY	0.51	1.58
tblVehicleEF	MCY	2.18	1.93
tblVehicleEF	MCY	0.54	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.60	17.73
tblVehicleEF	MCY	8.88	7.83
tblVehicleEF	MCY	191.62	223.36
tblVehicleEF	MCY	42.89	56.31
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.6300e-003	2.6240e-003
tblVehicleEF	MCY	2.6300e-003	2.6240e-003
tblVehicleEF	MCY	3.4230e-003	2.9930e-003
tblVehicleEF	MCY	2.4530e-003	2.4480e-003
tblVehicleEF	MCY	3.2050e-003	2.8030e-003
tblVehicleEF	MCY	1.69	1.72
tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	1.03	1.04
tblVehicleEF	MCY	2.52	2.53
tblVehicleEF	MCY	0.47	1.48
tblVehicleEF	MCY	1.79	1.58
tblVehicleEF	MCY	2.2820e-003	2.2100e-003

tblVehicleEF	MCY	6.2600e-004	5.5700e-004
tblVehicleEF	MCY	1.69	1.72
tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	1.03	1.04
tblVehicleEF	MCY	3.17	3.17
tblVehicleEF	MCY	0.47	1.48
tblVehicleEF	MCY	1.95	1.72
tblVehicleEF	MCY	0.56	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	18.32	18.46
tblVehicleEF	MCY	9.91	8.79
tblVehicleEF	MCY	191.62	224.74
tblVehicleEF	MCY	42.89	58.60
tblVehicleEF	MCY	1.10	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.6300e-003	2.6240e-003
tblVehicleEF	MCY	3.4230e-003	2.9930e-003
tblVehicleEF	MCY	2.4530e-003	2.4480e-003
tblVehicleEF	MCY	3.2050e-003	2.8030e-003
tblVehicleEF	MCY	1.14	1.16
tblVehicleEF	MCY	0.74	0.77
tblVehicleEF	MCY	0.60	0.60
tblVehicleEF	MCY	2.58	2.59
tblVehicleEF	MCY	0.59	1.85
tblVehicleEF	MCY	2.04	1.81
tblVehicleEF	MCY	2.2950e-003	2.2240e-003
tblVehicleEF	MCY	6.5100e-004	5.8000e-004

tblVehicleEF	MCY	1.14	1.16
tblVehicleEF	MCY	0.74	0.77
tblVehicleEF	MCY	0.60	0.60
tblVehicleEF	MCY	3.24	3.25
tblVehicleEF	MCY	0.59	1.85
tblVehicleEF	MCY	2.22	1.97
tblVehicleEF	MDV	8.0950e-003	3.5000e-003
tblVehicleEF	MDV	7.5800e-003	0.05
tblVehicleEF	MDV	0.89	0.78
tblVehicleEF	MDV	1.51	2.36
tblVehicleEF	MDV	435.10	352.23
tblVehicleEF	MDV	87.36	68.49
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.12	0.21
tblVehicleEF	MDV	2.1200e-003	1.5760e-003
tblVehicleEF	MDV	2.3330e-003	1.5670e-003
tblVehicleEF	MDV	1.9530e-003	1.4520e-003
tblVehicleEF	MDV	2.1450e-003	1.4410e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.12	0.11
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.10	0.24
tblVehicleEF	MDV	4.3540e-003	3.4810e-003
tblVehicleEF	MDV	8.9900e-004	6.7800e-004
tblVehicleEF	MDV	0.06	0.07

tblVehicleEF	MDV	0.12	0.11
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.11	0.26
tblVehicleEF	MDV	8.5850e-003	3.7380e-003
tblVehicleEF	MDV	6.7500e-003	0.05
tblVehicleEF	MDV	0.98	0.86
tblVehicleEF	MDV	1.30	2.01
tblVehicleEF	MDV	454.05	362.48
tblVehicleEF	MDV	87.36	67.85
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	0.11	0.19
tblVehicleEF	MDV	2.1200e-003	1.5760e-003
tblVehicleEF	MDV	2.1200e-003	1.5760e-003
tblVehicleEF	MDV	2.3330e-003	1.5670e-003
tblVehicleEF	MDV	1.9530e-003	1.4520e-003
tblVehicleEF	MDV	2.1450e-003	1.4410e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.13	0.11
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.07	0.33
tblVehicleEF	MDV	0.09	0.21
tblVehicleEF	MDV	4.5440e-003	3.5830e-003
tblVehicleEF	MDV	8.9500e-004	6.7100e-004
tblVehicleEF	MDV	0.09	0.11

tblVehicleEF	MDV	0.13	0.11
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.07	0.33
tblVehicleEF	MDV	0.10	0.23
tblVehicleEF	MDV	7.9350e-003	3.4270e-003
tblVehicleEF	MDV	7.7540e-003	0.05
tblVehicleEF	MDV	0.86	0.75
tblVehicleEF	MDV	1.56	2.44
tblVehicleEF	MDV	428.14	348.48
tblVehicleEF	MDV	87.36	68.63
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.12	0.21
tblVehicleEF	MDV	2.1200e-003	1.5760e-003
tblVehicleEF	MDV	2.3330e-003	1.5670e-003
tblVehicleEF	MDV	1.9530e-003	1.4520e-003
tblVehicleEF	MDV	2.1450e-003	1.4410e-003
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.13	0.11
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.10	0.24
tblVehicleEF	MDV	4.2840e-003	3.4440e-003
tblVehicleEF	MDV	9.0000e-004	6.7900e-004
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.13	0.11

tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.11	0.27
tblVehicleEF	MH	0.01	5.4870e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.88	0.48
tblVehicleEF	MH	4.13	1.74
tblVehicleEF	MH	1,114.66	1,368.13
tblVehicleEF	MH	58.37	16.94
tblVehicleEF	MH	0.78	0.93
tblVehicleEF	MH	0.63	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	9.1100e-004	2.2800e-004
tblVehicleEF	MH	3.2110e-003	3.2730e-003
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	8.3800e-004	2.1000e-004
tblVehicleEF	MH	0.60	0.49
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	0.28	0.23
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	0.01	0.77
tblVehicleEF	MH	0.24	0.08
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.5500e-004	1.6800e-004
tblVehicleEF	MH	0.60	0.49

tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	0.28	0.23
tblVehicleEF	MH	0.06	0.04
tblVehicleEF	MH	0.01	0.77
tblVehicleEF	MH	0.26	0.09
tblVehicleEF	MH	0.01	5.5950e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.91	0.50
tblVehicleEF	MH	3.89	1.64
tblVehicleEF	MH	1,114.66	1,368.15
tblVehicleEF	MH	58.37	16.77
tblVehicleEF	MH	0.73	0.86
tblVehicleEF	MH	0.61	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	9.1100e-004	2.2800e-004
tblVehicleEF	MH	3.2110e-003	3.2730e-003
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	8.3800e-004	2.1000e-004
tblVehicleEF	MH	0.89	0.72
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	0.39	0.32
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	0.01	0.75
tblVehicleEF	MH	0.23	0.07
tblVehicleEF	MH	0.01	0.01

tblVehicleEF	MH	6.5100e-004	1.6600e-004
tblVehicleEF	MH	0.89	0.72
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	0.39	0.32
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.01	0.75
tblVehicleEF	MH	0.25	0.08
tblVehicleEF	MH	0.01	5.4580e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.88	0.48
tblVehicleEF	MH	4.17	1.75
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tblVehicleEF	MH	58.37	16.97
tblVehicleEF	MH	0.77	0.91
tblVehicleEF	MH	0.64	0.25
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	9.1100e-004	2.2800e-004
tblVehicleEF	MH	3.2110e-003	3.2730e-003
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	8.3800e-004	2.1000e-004
tblVehicleEF	MH	0.66	0.52
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.28	0.23
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	0.01	0.82
tblVehicleEF	MH	0.24	0.08

tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.5600e-004	1.6800e-004
tblVehicleEF	MH	0.66	0.52
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.28	0.23
tblVehicleEF	MH	0.06	0.04
tblVehicleEF	MH	0.01	0.82
tblVehicleEF	MH	0.26	0.09
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tblVehicleEF	MHD	0.24	0.16
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tblVehicleEF	MHD	1,129.34	958.19
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tblVehicleEF	MHD	0.35	0.31
tblVehicleEF	MHD	0.72	1.08
tblVehicleEF	MHD	10.39	1.64
tblVehicleEF	MHD	6.3000e-005	1.8200e-004
tblVehicleEF	MHD	2.8540e-003	6.2720e-003
tblVehicleEF	MHD	7.4300e-004	1.1500e-004
tblVehicleEF	MHD	6.1000e-005	1.7400e-004
tblVehicleEF	MHD	2.7260e-003	5.9950e-003
tblVehicleEF	MHD	6.8300e-004	1.0600e-004
tblVehicleEF	MHD	8.2500e-004	4.4700e-004

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.9500e-004	3.1800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.26	0.05
tblVehicleEF	MHD	1.3130e-003	5.7600e-004
tblVehicleEF	MHD	0.01	9.1570e-003
tblVehicleEF	MHD	6.5700e-004	9.9000e-005
tblVehicleEF	MHD	8.2500e-004	4.4700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	5.9500e-004	3.1800e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.28	0.05
tblVehicleEF	MHD	0.01	3.8990e-003
tblVehicleEF	MHD	2.7180e-003	1.2350e-003
tblVehicleEF	MHD	0.03	9.4620e-003
tblVehicleEF	MHD	0.25	0.33
tblVehicleEF	MHD	0.24	0.17
tblVehicleEF	MHD	3.91	0.99
tblVehicleEF	MHD	144.51	60.39
tblVehicleEF	MHD	1,129.34	958.20
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tblVehicleEF	MHD	0.36	0.30
tblVehicleEF	MHD	0.67	1.02

tblVehicleEF	MHD	10.37	1.63
tblVehicleEF	MHD	5.3000e-005	1.5600e-004
tblVehicleEF	MHD	2.8540e-003	6.2720e-003
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tblVehicleEF	MHD	1.2300e-003	6.6700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	8.2400e-004	4.4100e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.25	0.05
tblVehicleEF	MHD	1.3890e-003	5.7400e-004
tblVehicleEF	MHD	0.01	9.1570e-003
tblVehicleEF	MHD	6.5400e-004	9.9000e-005
tblVehicleEF	MHD	1.2300e-003	6.6700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	8.2400e-004	4.4100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.27	0.05
tblVehicleEF	MHD	0.02	4.4000e-003
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tblVehicleEF	MHD	0.34	0.33
tblVehicleEF	MHD	0.70	1.06
tblVehicleEF	MHD	10.40	1.64
tblVehicleEF	MHD	7.7000e-005	2.1700e-004
tblVehicleEF	MHD	2.8540e-003	6.2720e-003
tblVehicleEF	MHD	7.4300e-004	1.1500e-004
tblVehicleEF	MHD	7.4000e-005	2.0800e-004
tblVehicleEF	MHD	2.7260e-003	5.9950e-003
tblVehicleEF	MHD	6.8300e-004	1.0600e-004
tblVehicleEF	MHD	8.1200e-004	4.4200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.7200e-004	3.0600e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.26	0.05
tblVehicleEF	MHD	1.2080e-003	5.7800e-004
tblVehicleEF	MHD	0.01	9.1570e-003
tblVehicleEF	MHD	6.5800e-004	1.0000e-004
tblVehicleEF	MHD	8.1200e-004	4.4200e-004

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	5.7200e-004	3.0600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.28	0.05
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tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.66
tblVehicleEF	OBUS	0.34	0.39
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tblVehicleEF	OBUS	110.83	96.32
tblVehicleEF	OBUS	1,238.95	1,243.39
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tblVehicleEF	OBUS	0.71	1.14
tblVehicleEF	OBUS	2.54	0.91
tblVehicleEF	OBUS	2.2000e-005	1.3700e-004
tblVehicleEF	OBUS	2.8890e-003	7.3770e-003
tblVehicleEF	OBUS	9.0300e-004	1.9900e-004
tblVehicleEF	OBUS	2.1000e-005	1.3100e-004
tblVehicleEF	OBUS	2.7470e-003	7.0430e-003
tblVehicleEF	OBUS	8.3000e-004	1.8300e-004
tblVehicleEF	OBUS	1.3730e-003	1.7400e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05

tblVehicleEF	OBUS	7.6800e-004	9.2700e-004
tblVehicleEF	OBUS	0.04	0.02
tblVehicleEF	OBUS	0.04	0.27
tblVehicleEF	OBUS	0.28	0.10
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.4100e-004	1.6900e-004
tblVehicleEF	OBUS	1.3730e-003	1.7400e-003
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tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.6800e-004	9.2700e-004
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tblVehicleEF	OBUS	1.9000e-005	1.2200e-004

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tblVehicleEF	OBUS	0.03	0.06
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tblVehicleEF	OBUS	0.27	0.09
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tblVehicleEF	OBUS	0.05	0.07

tblVehicleEF	OBUS	7.4000e-004	9.0000e-004
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tblVehicleEF	SBUS	0.01	0.02
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tblVehicleEF	SBUS	0.01	3.3590e-003
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tblVehicleEF	SBUS	0.01	0.05
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tblVehicleEF	SBUS	5.63	2.56
tblVehicleEF	SBUS	2.46	3.35
tblVehicleEF	SBUS	10.86	1.16
tblVehicleEF	SBUS	5.0540e-003	2.9000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0090e-003	7.5000e-005
tblVehicleEF	SBUS	4.8350e-003	2.7750e-003
tblVehicleEF	SBUS	2.6260e-003	2.6300e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	9.2800e-004	6.9000e-005
tblVehicleEF	SBUS	3.5510e-003	1.0900e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.05	0.40
tblVehicleEF	SBUS	2.0480e-003	6.2800e-004
tblVehicleEF	SBUS	0.08	0.07
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	9.7050e-003	3.2510e-003
tblVehicleEF	SBUS	0.01	9.8310e-003

tblVehicleEF	SBUS	7.3300e-004	6.3000e-005
tblVehicleEF	SBUS	3.5510e-003	1.0900e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.52	0.58
tblVehicleEF	SBUS	2.0480e-003	6.2800e-004
tblVehicleEF	SBUS	0.09	0.08
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.40	0.05
tblVehicleEF	UBUS	1.88	5.86
tblVehicleEF	UBUS	0.05	9.5110e-003
tblVehicleEF	UBUS	8.02	45.55
tblVehicleEF	UBUS	7.96	0.70
tblVehicleEF	UBUS	1,861.01	1,975.40
tblVehicleEF	UBUS	115.72	7.56
tblVehicleEF	UBUS	5.97	0.47
tblVehicleEF	UBUS	13.96	0.07
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	3.2830e-003
tblVehicleEF	UBUS	1.2270e-003	8.6000e-005
tblVehicleEF	UBUS	0.24	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.07	3.1350e-003
tblVehicleEF	UBUS	1.1280e-003	7.9000e-005
tblVehicleEF	UBUS	3.4910e-003	2.8200e-004
tblVehicleEF	UBUS	0.05	3.0090e-003
tblVehicleEF	UBUS	2.3560e-003	2.0300e-004

tblVehicleEF	UBUS	0.44	0.09
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.68	0.04
tblVehicleEF	UBUS	9.0350e-003	1.2390e-003
tblVehicleEF	UBUS	1.3030e-003	7.5000e-005
tblVehicleEF	UBUS	3.4910e-003	2.8200e-004
tblVehicleEF	UBUS	0.05	3.0090e-003
tblVehicleEF	UBUS	2.3560e-003	2.0300e-004
tblVehicleEF	UBUS	2.38	5.98
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.75	0.04
tblVehicleEF	UBUS	1.88	5.86
tblVehicleEF	UBUS	0.05	8.8330e-003
tblVehicleEF	UBUS	8.03	45.55
tblVehicleEF	UBUS	6.98	0.62
tblVehicleEF	UBUS	1,861.01	1,975.40
tblVehicleEF	UBUS	115.72	7.41
tblVehicleEF	UBUS	5.63	0.46
tblVehicleEF	UBUS	13.91	0.07
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	3.2830e-003
tblVehicleEF	UBUS	0.08	3.2830e-003
tblVehicleEF	UBUS	1.2270e-003	8.6000e-005
tblVehicleEF	UBUS	0.24	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.07	3.1350e-003

tblVehicleEF	UBUS	1.1280e-003	7.9000e-005
tblVehicleEF	UBUS	5.0250e-003	4.1900e-004
tblVehicleEF	UBUS	0.06	3.1760e-003
tblVehicleEF	UBUS	3.2640e-003	2.9600e-004
tblVehicleEF	UBUS	0.45	0.09
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	0.63	0.04
tblVehicleEF	UBUS	9.0350e-003	1.2390e-003
tblVehicleEF	UBUS	1.2860e-003	7.3000e-005
tblVehicleEF	UBUS	5.0250e-003	4.1900e-004
tblVehicleEF	UBUS	0.06	3.1760e-003
tblVehicleEF	UBUS	3.2640e-003	2.9600e-004
tblVehicleEF	UBUS	2.38	5.98
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	0.69	0.04
tblVehicleEF	UBUS	1.88	5.86
tblVehicleEF	UBUS	0.05	9.6600e-003
tblVehicleEF	UBUS	8.01	45.55
tblVehicleEF	UBUS	8.14	0.72
tblVehicleEF	UBUS	1,861.01	1,975.40
tblVehicleEF	UBUS	115.72	7.58
tblVehicleEF	UBUS	5.86	0.46
tblVehicleEF	UBUS	13.97	0.07
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	3.2830e-003
tblVehicleEF	UBUS	1.2270e-003	8.6000e-005

tblVehicleEF	UBUS	0.24	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.07	3.1350e-003
tblVehicleEF	UBUS	1.1280e-003	7.9000e-005
tblVehicleEF	UBUS	3.6960e-003	2.9500e-004
tblVehicleEF	UBUS	0.06	3.3430e-003
tblVehicleEF	UBUS	2.3270e-003	1.9900e-004
tblVehicleEF	UBUS	0.44	0.09
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.69	0.04
tblVehicleEF	UBUS	9.0350e-003	1.2390e-003
tblVehicleEF	UBUS	1.3060e-003	7.5000e-005
tblVehicleEF	UBUS	3.6960e-003	2.9500e-004
tblVehicleEF	UBUS	0.06	3.3430e-003
tblVehicleEF	UBUS	2.3270e-003	1.9900e-004
tblVehicleEF	UBUS	2.38	5.98
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.76	0.05
tblVehicleTrips	PB_TP	44.00	43.00
tblVehicleTrips	PR_TP	38.00	39.00
tblVehicleTrips	ST_TR	6.39	4.97
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	4.31	4.97
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	94.36	67.14
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	5.86	4.97

tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	3.43	4.97
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	72.16	67.14
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	6.65	4.97
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	4.18	4.97
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	89.95	67.14
tblVehicleTrips	WD_TR	33.82	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	1.2091	11.9488	10.1290	0.0310	2.4644	0.3832	2.8476	0.7139	0.3555	1.0694	0.0000	2,829.9117	2,829.9117	0.4360	0.0000	2,840.8104
2023	1.1287	6.8747	10.1209	0.0345	2.9920	0.1775	3.1695	0.7278	0.1665	0.8943	0.0000	3,165.4992	3,165.4992	0.2372	0.0000	3,171.4291
2024	0.9295	5.2407	8.5167	0.0308	2.1472	0.1090	2.2561	0.5761	0.1029	0.6790	0.0000	2,836.7864	2,836.7864	0.1625	0.0000	2,840.8480
2025	1.2594	5.0519	8.2061	0.0304	2.1722	0.0967	2.2689	0.5827	0.0913	0.6740	0.0000	2,793.3650	2,793.3650	0.1581	0.0000	2,797.3185
2026	5.1731	5.3329	9.1137	0.0333	2.5165	0.1109	2.6274	0.6741	0.1054	0.7795	0.0000	3,056.7234	3,056.7234	0.1635	0.0000	3,060.8116
2027	0.6153	0.6498	1.0792	4.0700e-003	0.3153	0.0132	0.3285	0.0845	0.0125	0.0970	0.0000	373.6926	373.6926	0.0196	0.0000	374.1816
Maximum	**5.1731**	**11.9488**	**10.1290**	**0.0345**	**2.9920**	**0.3832**	**3.1695**	**0.7278**	**0.3555**	**1.0694**	**0.0000**	**3,165.4992**	**3,165.4992**	**0.4360**	**0.0000**	**3,171.4291**

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	0.6380	6.0703	10.9478	0.0310	1.3429	0.0518	1.3947	0.3852	0.0499	0.4351	0.0000	2,829.9103	2,829.9103	0.4360	0.0000	2,840.8090
2023	0.9107	5.5272	10.5718	0.0345	2.0233	0.0368	2.0600	0.5253	0.0353	0.5606	0.0000	3,165.4985	3,165.4985	0.2372	0.0000	3,171.4284
2024	0.8123	4.8544	8.7826	0.0308	1.6737	0.0297	1.7034	0.4598	0.0285	0.4883	0.0000	2,836.7859	2,836.7859	0.1625	0.0000	2,840.8476
2025	1.1532	4.8014	8.4812	0.0304	1.6931	0.0288	1.7218	0.4651	0.0275	0.4926	0.0000	2,793.3646	2,793.3646	0.1581	0.0000	2,797.3181
2026	5.0392	5.0619	9.3944	0.0333	1.9597	0.0316	1.9914	0.5375	0.0302	0.5677	0.0000	3,056.7229	3,056.7229	0.1635	0.0000	3,060.8111
2027	0.5994	0.6177	1.1125	4.0700e-003	0.2455	3.7700e-003	0.2493	0.0674	3.5900e-003	0.0709	0.0000	373.6926	373.6926	0.0196	0.0000	374.1815
Maximum	**5.0392**	**6.0703**	**10.9478**	**0.0345**	**2.0233**	**0.0518**	**2.0600**	**0.5375**	**0.0499**	**0.5677**	**0.0000**	**3,165.4985**	**3,165.4985**	**0.4360**	**0.0000**	**3,171.4284**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**11.27**	**23.27**	**-4.50**	**0.00**	**29.11**	**79.51**	**32.43**	**27.35**	**79.03**	**37.63**	**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	**2-21-2022**	**5-20-2022**	2.4962	1.1012
2	**5-21-2022**	**8-20-2022**	3.3241	1.3760
3	**8-21-2022**	**11-20-2022**	4.9663	2.8362
4	**11-21-2022**	**2-20-2023**	4.8824	2.8960
5	**2-21-2023**	**5-20-2023**	1.5457	1.3877

6	**5-21-2023**	**8-20-2023**	1.5853	1.4220
7	**8-21-2023**	**11-20-2023**	1.6011	1.4378
8	**11-21-2023**	**2-20-2024**	1.5797	1.4369
9	**2-21-2024**	**5-20-2024**	1.5038	1.3802
10	**5-21-2024**	**8-20-2024**	1.5251	1.3989
11	**8-21-2024**	**11-20-2024**	1.5402	1.4139
12	**11-21-2024**	**2-20-2025**	1.5173	1.4118
13	**2-21-2025**	**5-20-2025**	1.4266	1.3408
14	**5-21-2025**	**8-20-2025**	1.4633	1.3747
15	**8-21-2025**	**11-20-2025**	1.4776	1.3890
16	**11-21-2025**	**2-20-2026**	2.5343	2.4338
17	**2-21-2026**	**5-20-2026**	2.5496	2.4510
18	**5-21-2026**	**8-20-2026**	2.6224	2.5205
19	**8-21-2026**	**11-20-2026**	2.6391	2.5371
20	**11-21-2026**	**2-20-2027**	2.8655	2.7725
		Highest	4.9663	2.8960

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	10.4343	0.4587	20.2287	0.0203		1.2277	1.2277		1.2277	1.2277	128.8437	268.0668	396.9106	0.4039	8.7400e-003	409.6143
Energy	0.0750	0.6486	0.3313	4.0900e-003		0.0518	0.0518		0.0518	0.0518	0.0000	2,776.2220	2,776.2220	0.1247	0.0365	2,790.2042
Mobile	2.2496	5.1421	24.2863	0.0769	8.1839	0.0589	8.2429	2.1895	0.0550	2.2446	0.0000	7,231.5467	7,231.5467	0.4813	0.0000	7,243.5785
Waste						0.0000	0.0000		0.0000	0.0000	138.5434	0.0000	138.5434	8.1877	0.0000	343.2353
Water						0.0000	0.0000		0.0000	0.0000	26.4474	414.7981	441.2454	2.7389	0.0688	530.2211
Total	**12.7588**	**6.2495**	**44.8464**	**0.1013**	**8.1839**	**1.3384**	**9.5223**	**2.1895**	**1.3345**	**3.5240**	**293.8344**	**10,690.6336**	**10,984.4680**	**11.9365**	**0.1140**	**11,316.8533**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.4877	0.3705	12.6141	2.1100e-003		0.0877	0.0877		0.0877	0.0877	0.0000	282.6311	282.6311	0.0247	4.8100e-003	284.6808
Energy	0.0578	0.5006	0.2608	3.1500e-003		0.0399	0.0399		0.0399	0.0399	0.0000	2,321.1784	2,321.1784	0.1060	0.0301	2,332.8088
Mobile	2.2496	5.1421	24.2863	0.0769	8.1839	0.0589	8.2429	2.1895	0.0550	2.2446	0.0000	7,231.5467	7,231.5467	0.4813	0.0000	7,243.5785
Waste						0.0000	0.0000		0.0000	0.0000	69.2717	0.0000	69.2717	4.0938	0.0000	171.6177
Water						0.0000	0.0000		0.0000	0.0000	21.1579	362.2137	383.3716	2.1928	0.0554	454.6951
Total	**8.7950**	**6.0132**	**37.1613**	**0.0821**	**8.1839**	**0.1866**	**8.3705**	**2.1895**	**0.1827**	**2.3722**	**90.4296**	**10,197.5699**	**10,287.9995**	**6.8986**	**0.0903**	**10,487.3808**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**31.07**	**3.78**	**17.14**	**18.92**	**0.00**	**86.06**	**12.10**	**0.00**	**86.31**	**32.68**	**69.22**	**4.61**	**6.34**	**42.21**	**20.76**	**7.33**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/21/2022	3/18/2022	5	20	
2	Demolition (Crusher Use)	Demolition	3/7/2022	3/18/2022	5	10	
3	Grading	Grading	3/21/2022	2/17/2023	5	240	
4	Grading (Sheet Piling)	Grading	11/26/2022	2/17/2023	5	60	
5	Building Construction	Building Construction	8/8/2022	2/12/2027	5	1180	
6	Building Construction (Pile Rig Use)	Building Construction	2/11/2027	2/12/2027	5	2	
7	Paving	Paving	12/26/2022	2/17/2023	5	40	
8	Paving (Crane Use)	Paving	2/13/2023	2/17/2023	5	5	
9	Architectural Coating	Architectural Coating	12/1/2025	2/12/2027	5	315	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1200

Acres of Paving: 18.76

Residential Indoor: 3,093,580; Residential Outdoor: 1,031,193; Non-Residential Indoor: 43,152; Non-Residential Outdoor: 14,384; Striped Parking Area: 49,639 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	8.00	78	0.48
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Sweepers/Scrubbers	1	8.00	64	0.46
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	6.00	81	0.73

Grading	Excavators	2	8.00	158	0.38
Grading	Forklifts	1	6.00	89	0.20
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Sweepers/Scrubbers	1	8.00	64	0.46
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Concrete/Industrial Saws	1	6.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	2	6.00	78	0.48
Demolition (Crusher Use)	Crushing/Proc. Equipment	1	8.00	85	0.78
Grading	Plate Compactors	0		8	0.43
Grading (Sheet Piling)	Other Construction Equipment	1	8.00	630	0.50
Building Construction (Pile Rig Use)	Other Construction Equipment	1	8.00	630	0.50
Paving (Crane Use)	Cranes	1	8.00	231	0.29
Demolition (Crusher Use)	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction (Pile Rig Use)	Cranes	0	7.00	231	0.29
Demolition (Crusher Use)	Excavators	0	8.00	158	0.38
Grading (Sheet Piling)	Excavators	0	8.00	158	0.38

Building Construction (Pile Rig Use)	Forklifts	0	8.00	89	0.20
Building Construction (Pile Rig Use)	Generator Sets	0	8.00	84	0.74
Grading (Sheet Piling)	Graders	0	8.00	187	0.41
Paving (Crane Use)	Pavers	0	8.00	130	0.42
Paving (Crane Use)	Paving Equipment	0	8.00	132	0.36
Paving (Crane Use)	Rollers	0	8.00	80	0.38
Demolition (Crusher Use)	Rubber Tired Dozers	0	8.00	247	0.40
Grading (Sheet Piling)	Rubber Tired Dozers	0	8.00	247	0.40
Grading (Sheet Piling)	Scrapers	0	8.00	367	0.48
Building Construction (Pile Rig Use)	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Grading (Sheet Piling)	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction (Pile Rig Use)	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	20.00	0.00	1,466.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	16	40.00	0.00	15,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	1,321.00	304.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	264.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition (Crusher Use)	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading (Sheet Piling)	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Pile Rig Use)	1	1,321.00	304.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving (Crane Use)	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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					0.1586	0.0000	0.1586	0.0240	0.0000	0.0240	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0255	0.2321	0.2298	3.9000e-004		0.0121	0.0121		0.0115	0.0115	0.0000	33.8951	33.8951	7.1900e-003	0.0000	34.0749
Total	**0.0255**	**0.2321**	**0.2298**	**3.9000e-004**	**0.1586**	**0.0121**	**0.1708**	**0.0240**	**0.0115**	**0.0355**	**0.0000**	**33.8951**	**33.8951**	**7.1900e-003**	**0.0000**	**34.0749**

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.8800e-003	0.1883	0.0468	5.6000e-004	0.0126	5.3000e-004	0.0131	3.4600e-003	5.0000e-004	3.9600e-003	0.0000	55.2119	55.2119	3.8200e-003	0.0000	55.3073
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	8.1000e-004	6.1000e-004	6.9700e-003	2.0000e-005	2.1900e-003	2.0000e-005	2.2100e-003	5.8000e-004	2.0000e-005	6.0000e-004	0.0000	1.9083	1.9083	5.0000e-005	0.0000	1.9096
Total	**6.6900e-003**	**0.1889**	**0.0538**	**5.8000e-004**	**0.0148**	**5.5000e-004**	**0.0153**	**4.0400e-003**	**5.2000e-004**	**4.5600e-003**	**0.0000**	**57.1202**	**57.1202**	**3.8700e-003**	**0.0000**	**57.2169**

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					0.0588	0.0000	0.0588	8.9000e-003	0.0000	8.9000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.1900e-003	0.1323	0.2499	3.9000e-004		1.4300e-003	1.4300e-003		1.3600e-003	1.3600e-003	0.0000	33.8951	33.8951	7.1900e-003	0.0000	34.0749
Total	**8.1900e-003**	**0.1323**	**0.2499**	**3.9000e-004**	**0.0588**	**1.4300e-003**	**0.0602**	**8.9000e-003**	**1.3600e-003**	**0.0103**	**0.0000**	**33.8951**	**33.8951**	**7.1900e-003**	**0.0000**	**34.0749**

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.8800e-003	0.1883	0.0468	5.6000e-004	0.0101	5.3000e-004	0.0107	2.8600e-003	5.0000e-004	3.3600e-003	0.0000	55.2119	55.2119	3.8200e-003	0.0000	55.3073
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	8.1000e-004	6.1000e-004	6.9700e-003	2.0000e-005	1.7000e-003	2.0000e-005	1.7200e-003	4.6000e-004	2.0000e-005	4.8000e-004	0.0000	1.9083	1.9083	5.0000e-005	0.0000	1.9096
Total	**6.6900e-003**	**0.1889**	**0.0538**	**5.8000e-004**	**0.0118**	**5.5000e-004**	**0.0124**	**3.3200e-003**	**5.2000e-004**	**3.8400e-003**	**0.0000**	**57.1202**	**57.1202**	**3.8700e-003**	**0.0000**	**57.2169**

3.3 Demolition (Crusher Use) - 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	2.4000e-003	0.0161	0.0217	4.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	3.0143	3.0143	2.0000e-004	0.0000	3.0192
Total	**2.4000e-003**	**0.0161**	**0.0217**	**4.0000e-005**		**9.0000e-004**	**9.0000e-004**		**9.0000e-004**	**9.0000e-004**	**0.0000**	**3.0143**	**3.0143**	**2.0000e-004**	**0.0000**	**3.0192**

3.3 Demolition (Crusher Use) - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	5.0000e-005	5.2000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1431	0.1431	0.0000	0.0000	0.1432
Total	**6.0000e-005**	**5.0000e-005**	**5.2000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**1.7000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1431**	**0.1431**	**0.0000**	**0.0000**	**0.1432**

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	6.4000e-004	0.0125	0.0216	4.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	3.0143	3.0143	2.0000e-004	0.0000	3.0192
Total	**6.4000e-004**	**0.0125**	**0.0216**	**4.0000e-005**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**3.0143**	**3.0143**	**2.0000e-004**	**0.0000**	**3.0192**

3.3 Demolition (Crusher Use) - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	5.0000e-005	5.2000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1431	0.1431	0.0000	0.0000	0.1432
Total	**6.0000e-005**	**5.0000e-005**	**5.2000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**3.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1431**	**0.1431**	**0.0000**	**0.0000**	**0.1432**

3.4 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					1.2604	0.0000	1.2604	0.4090	0.0000	0.4090	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6722	7.1888	5.4086	0.0116		0.3059	0.3059		0.2824	0.2824	0.0000	1,013.8481	1,013.8481	0.3168	0.0000	1,021.7678
Total	**0.6722**	**7.1888**	**5.4086**	**0.0116**	**1.2604**	**0.3059**	**1.5663**	**0.4090**	**0.2824**	**0.6914**	**0.0000**	**1,013.8481**	**1,013.8481**	**0.3168**	**0.0000**	**1,021.7678**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0514	1.6460	0.4089	4.9000e-003	0.1242	4.6100e-003	0.1289	0.0337	4.4100e-003	0.0381	0.0000	482.5388	482.5388	0.0334	0.0000	483.3730
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	0.0165	0.0124	0.1429	4.3000e-004	0.0449	3.6000e-004	0.0453	0.0119	3.3000e-004	0.0123	0.0000	39.1204	39.1204	1.0800e-003	0.0000	39.1473
Total	**0.0679**	**1.6584**	**0.5518**	**5.3300e-003**	**0.1692**	**4.9700e-003**	**0.1741**	**0.0456**	**4.7400e-003**	**0.0504**	**0.0000**	**521.6591**	**521.6591**	**0.0345**	**0.0000**	**522.5203**

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					0.4670	0.0000	0.4670	0.1516	0.0000	0.1516	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1810	1.6962	6.1031	0.0116		0.0301	0.0301		0.0291	0.0291	0.0000	1,013.8469	1,013.8469	0.3168	0.0000	1,021.7666
Total	**0.1810**	**1.6962**	**6.1031**	**0.0116**	**0.4670**	**0.0301**	**0.4971**	**0.1516**	**0.0291**	**0.1807**	**0.0000**	**1,013.8469**	**1,013.8469**	**0.3168**	**0.0000**	**1,021.7666**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0514	1.6460	0.4089	4.9000e-003	0.0990	4.6100e-003	0.1037	0.0275	4.4100e-003	0.0319	0.0000	482.5388	482.5388	0.0334	0.0000	483.3730
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	0.0165	0.0124	0.1429	4.3000e-004	0.0348	3.6000e-004	0.0352	9.4500e-003	3.3000e-004	9.7800e-003	0.0000	39.1204	39.1204	1.0800e-003	0.0000	39.1473
Total	**0.0679**	**1.6584**	**0.5518**	**5.3300e-003**	**0.1338**	**4.9700e-003**	**0.1388**	**0.0370**	**4.7400e-003**	**0.0417**	**0.0000**	**521.6591**	**521.6591**	**0.0345**	**0.0000**	**522.5203**

3.4 Grading - 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					0.7485	0.0000	0.7485	0.1277	0.0000	0.1277	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1067	1.1081	0.8967	1.9700e-003		0.0464	0.0464		0.0428	0.0428	0.0000	173.0853	173.0853	0.0540	0.0000	174.4364
Total	**0.1067**	**1.1081**	**0.8967**	**1.9700e-003**	**0.7485**	**0.0464**	**0.7949**	**0.1277**	**0.0428**	**0.1705**	**0.0000**	**173.0853**	**173.0853**	**0.0540**	**0.0000**	**174.4364**

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.7500e-003	0.1844	0.0633	8.0000e-004	0.1016	3.3000e-004	0.1019	0.0255	3.2000e-004	0.0258	0.0000	78.9536	78.9536	5.2900e-003	0.0000	79.0858
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	2.6600e-003	1.9200e-003	0.0224	7.0000e-005	7.6700e-003	6.0000e-005	7.7300e-003	2.0400e-003	5.0000e-005	2.0900e-003	0.0000	6.4347	6.4347	1.7000e-004	0.0000	6.4388
Total	**8.4100e-003**	**0.1863**	**0.0858**	**8.7000e-004**	**0.1093**	**3.9000e-004**	**0.1096**	**0.0275**	**3.7000e-004**	**0.0279**	**0.0000**	**85.3882**	**85.3882**	**5.4600e-003**	**0.0000**	**85.5246**

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					0.2773	0.0000	0.2773	0.0473	0.0000	0.0473	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0306	0.2860	1.0420	1.9700e-003		4.9200e-003	4.9200e-003		4.7700e-003	4.7700e-003	0.0000	173.0851	173.0851	0.0540	0.0000	174.4362
Total	**0.0306**	**0.2860**	**1.0420**	**1.9700e-003**	**0.2773**	**4.9200e-003**	**0.2822**	**0.0473**	**4.7700e-003**	**0.0521**	**0.0000**	**173.0851**	**173.0851**	**0.0540**	**0.0000**	**174.4362**

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.7500e-003	0.1844	0.0633	8.0000e-004	0.0764	3.3000e-004	0.0767	0.0193	3.2000e-004	0.0196	0.0000	78.9536	78.9536	5.2900e-003	0.0000	79.0858
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	2.6600e-003	1.9200e-003	0.0224	7.0000e-005	5.9400e-003	6.0000e-005	6.0000e-003	1.6100e-003	5.0000e-005	1.6700e-003	0.0000	6.4347	6.4347	1.7000e-004	0.0000	6.4388
Total	**8.4100e-003**	**0.1863**	**0.0858**	**8.7000e-004**	**0.0823**	**3.9000e-004**	**0.0827**	**0.0209**	**3.7000e-004**	**0.0213**	**0.0000**	**85.3882**	**85.3882**	**5.4600e-003**	**0.0000**	**85.5246**

3.5 Grading (Sheet Piling) - 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					0.0000	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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Grading (Sheet Piling) - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.3100e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3578	0.3578	1.0000e-005	0.0000	0.3581
Total	**1.5000e-004**	**1.1000e-004**	**1.3100e-003**	**0.0000**	**4.1000e-004**	**0.0000**	**4.1000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3578**	**0.3578**	**1.0000e-005**	**0.0000**	**0.3581**

Mitigated Construction On-Site

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

3.5 Grading (Sheet Piling) - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.3100e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3578	0.3578	1.0000e-005	0.0000	0.3581
Total	**1.5000e-004**	**1.1000e-004**	**1.3100e-003**	**0.0000**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.3578**	**0.3578**	**1.0000e-005**	**0.0000**	**0.3581**

3.5 Grading (Sheet Piling) - 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					0.0000	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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Grading (Sheet Piling) - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.4000e-004	1.6800e-003	1.0000e-005	5.8000e-004	0.0000	5.8000e-004	1.5000e-004	0.0000	1.6000e-004	0.0000	0.4826	0.4826	1.0000e-005	0.0000	0.4829
Total	**2.0000e-004**	**1.4000e-004**	**1.6800e-003**	**1.0000e-005**	**5.8000e-004**	**0.0000**	**5.8000e-004**	**1.5000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4826**	**0.4826**	**1.0000e-005**	**0.0000**	**0.4829**

Mitigated Construction On-Site

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

3.5 Grading (Sheet Piling) - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.4000e-004	1.6800e-003	1.0000e-005	4.5000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.4826	0.4826	1.0000e-005	0.0000	0.4829
Total	**2.0000e-004**	**1.4000e-004**	**1.6800e-003**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**4.5000e-004**	**1.2000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4826**	**0.4826**	**1.0000e-005**	**0.0000**	**0.4829**

3.6 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	0.1037	0.9301	1.0034	1.6600e-003		0.0484	0.0484		0.0459	0.0459	0.0000	142.8260	142.8260	0.0303	0.0000	143.5835
Total	**0.1037**	**0.9301**	**1.0034**	**1.6600e-003**		**0.0484**	**0.0484**		**0.0459**	**0.0459**	**0.0000**	**142.8260**	**142.8260**	**0.0303**	**0.0000**	**143.5835**

3.6 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0465	1.4964	0.4041	4.0200e-003	0.1005	2.8100e-003	0.1033	0.0290	2.6900e-003	0.0317	0.0000	389.9531	389.9531	0.0233	0.0000	390.5354
Worker	0.2798	0.2098	2.4165	7.3200e-003	0.7600	6.0700e-003	0.7660	0.2019	5.5900e-003	0.2074	0.0000	661.7302	661.7302	0.0182	0.0000	662.1858
Total	**0.3264**	**1.7063**	**2.8205**	**0.0113**	**0.8605**	**8.8800e-003**	**0.8694**	**0.2309**	**8.2800e-003**	**0.2391**	**0.0000**	**1,051.6833**	**1,051.6833**	**0.0415**	**0.0000**	**1,052.7212**

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	0.0448	0.6504	1.1008	1.6600e-003		5.6700e-003	5.6700e-003		5.6700e-003	5.6700e-003	0.0000	142.8258	142.8258	0.0303	0.0000	143.5833
Total	**0.0448**	**0.6504**	**1.1008**	**1.6600e-003**		**5.6700e-003**	**5.6700e-003**		**5.6700e-003**	**5.6700e-003**	**0.0000**	**142.8258**	**142.8258**	**0.0303**	**0.0000**	**143.5833**

3.6 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0465	1.4964	0.4041	4.0200e-003	0.0820	2.8100e-003	0.0848	0.0245	2.6900e-003	0.0272	0.0000	389.9531	389.9531	0.0233	0.0000	390.5354
Worker	0.2798	0.2098	2.4165	7.3200e-003	0.5887	6.0700e-003	0.5948	0.1598	5.5900e-003	0.1654	0.0000	661.7302	661.7302	0.0182	0.0000	662.1858
Total	**0.3264**	**1.7063**	**2.8205**	**0.0113**	**0.6707**	**8.8800e-003**	**0.6796**	**0.1843**	**8.2800e-003**	**0.1926**	**0.0000**	**1,051.6833**	**1,051.6833**	**0.0415**	**0.0000**	**1,052.7212**

3.6 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	0.2370	2.1220	2.4683	4.1100e-003		0.1035	0.1035		0.0981	0.0981	0.0000	353.7678	353.7678	0.0743	0.0000	355.6245
Total	**0.2370**	**2.1220**	**2.4683**	**4.1100e-003**		**0.1035**	**0.1035**		**0.0981**	**0.0981**	**0.0000**	**353.7678**	**353.7678**	**0.0743**	**0.0000**	**355.6245**

3.6 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0855	2.7996	0.8976	9.6300e-003	0.2490	3.2700e-003	0.2522	0.0719	3.1200e-003	0.0750	0.0000	935.3690	935.3690	0.0510	0.0000	936.6432
Worker	0.6515	0.4700	5.5023	0.0175	1.8818	0.0146	1.8964	0.4998	0.0134	0.5133	0.0000	1,578.6100	1,578.6100	0.0406	0.0000	1,579.6260
Total	**0.7370**	**3.2696**	**6.3999**	**0.0271**	**2.1308**	**0.0179**	**2.1486**	**0.5717**	**0.0166**	**0.5882**	**0.0000**	**2,513.9790**	**2,513.9790**	**0.0916**	**0.0000**	**2,516.2691**

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	0.1079	1.6049	2.7233	4.1100e-003		0.0129	0.0129		0.0129	0.0129	0.0000	353.7673	353.7673	0.0743	0.0000	355.6240
Total	**0.1079**	**1.6049**	**2.7233**	**4.1100e-003**		**0.0129**	**0.0129**		**0.0129**	**0.0129**	**0.0000**	**353.7673**	**353.7673**	**0.0743**	**0.0000**	**355.6240**

3.6 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0855	2.7996	0.8976	9.6300e-003	0.2031	3.2700e-003	0.2064	0.0606	3.1200e-003	0.0637	0.0000	935.3690	935.3690	0.0510	0.0000	936.6432
Worker	0.6515	0.4700	5.5023	0.0175	1.4577	0.0146	1.4723	0.3957	0.0134	0.4092	0.0000	1,578.6100	1,578.6100	0.0406	0.0000	1,579.6260
Total	**0.7370**	**3.2696**	**6.3999**	**0.0271**	**1.6609**	**0.0179**	**1.6788**	**0.4563**	**0.0166**	**0.4729**	**0.0000**	**2,513.9790**	**2,513.9790**	**0.0916**	**0.0000**	**2,516.2691**

3.6 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	0.2235	1.9983	2.4765	4.1500e-003		0.0912	0.0912		0.0864	0.0864	0.0000	356.5471	356.5471	0.0743	0.0000	358.4054
Total	**0.2235**	**1.9983**	**2.4765**	**4.1500e-003**		**0.0912**	**0.0912**		**0.0864**	**0.0864**	**0.0000**	**356.5471**	**356.5471**	**0.0743**	**0.0000**	**358.4054**

3.6 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0841	2.8105	0.8768	9.6500e-003	0.2509	3.2400e-003	0.2541	0.0724	3.1000e-003	0.0755	0.0000	938.8091	938.8091	0.0506	0.0000	940.0741
Worker	0.6219	0.4319	5.1634	0.0170	1.8963	0.0145	1.9108	0.5037	0.0134	0.5170	0.0000	1,541.4302	1,541.4302	0.0375	0.0000	1,542.3685
Total	**0.7059**	**3.2424**	**6.0402**	**0.0267**	**2.1472**	**0.0177**	**2.1649**	**0.5761**	**0.0165**	**0.5925**	**0.0000**	**2,480.2393**	**2,480.2393**	**0.0881**	**0.0000**	**2,482.4427**

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	0.1063	1.6120	2.7424	4.1500e-003		0.0120	0.0120		0.0120	0.0120	0.0000	356.5466	356.5466	0.0743	0.0000	358.4049
Total	**0.1063**	**1.6120**	**2.7424**	**4.1500e-003**		**0.0120**	**0.0120**		**0.0120**	**0.0120**	**0.0000**	**356.5466**	**356.5466**	**0.0743**	**0.0000**	**358.4049**

3.6 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0841	2.8105	0.8768	9.6500e-003	0.2047	3.2400e-003	0.2080	0.0611	3.1000e-003	0.0642	0.0000	938.8091	938.8091	0.0506	0.0000	940.0741
Worker	0.6219	0.4319	5.1634	0.0170	1.4690	0.0145	1.4835	0.3988	0.0134	0.4121	0.0000	1,541.4302	1,541.4302	0.0375	0.0000	1,542.3685
Total	**0.7059**	**3.2424**	**6.0402**	**0.0267**	**1.6737**	**0.0177**	**1.6914**	**0.4598**	**0.0165**	**0.4763**	**0.0000**	**2,480.2393**	**2,480.2393**	**0.0881**	**0.0000**	**2,482.4427**

3.6 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	0.2073	1.8494	2.4558	4.1300e-003		0.0779	0.0779		0.0739	0.0739	0.0000	355.2781	355.2781	0.0735	0.0000	357.1146
Total	**0.2073**	**1.8494**	**2.4558**	**4.1300e-003**		**0.0779**	**0.0779**		**0.0739**	**0.0739**	**0.0000**	**355.2781**	**355.2781**	**0.0735**	**0.0000**	**357.1146**

3.6 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0816	2.7756	0.8509	9.5600e-003	0.2499	3.1800e-003	0.2531	0.0721	3.0400e-003	0.0752	0.0000	930.1299	930.1299	0.0497	0.0000	931.3718
Worker	0.5890	0.3936	4.7737	0.0163	1.8891	0.0141	1.9032	0.5017	0.0130	0.5148	0.0000	1,476.0889	1,476.0889	0.0341	0.0000	1,476.9409
Total	**0.6706**	**3.1692**	**5.6246**	**0.0259**	**2.1390**	**0.0173**	**2.1563**	**0.5739**	**0.0161**	**0.5899**	**0.0000**	**2,406.2188**	**2,406.2188**	**0.0838**	**0.0000**	**2,408.3128**

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	0.1038	1.6008	2.7304	4.1300e-003		0.0111	0.0111		0.0111	0.0111	0.0000	355.2777	355.2777	0.0735	0.0000	357.1142
Total	**0.1038**	**1.6008**	**2.7304**	**4.1300e-003**		**0.0111**	**0.0111**		**0.0111**	**0.0111**	**0.0000**	**355.2777**	**355.2777**	**0.0735**	**0.0000**	**357.1142**

3.6 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0816	2.7756	0.8509	9.5600e-003	0.2039	3.1800e-003	0.2071	0.0608	3.0400e-003	0.0639	0.0000	930.1299	930.1299	0.0497	0.0000	931.3718
Worker	0.5890	0.3936	4.7737	0.0163	1.4634	0.0141	1.4775	0.3972	0.0130	0.4103	0.0000	1,476.0889	1,476.0889	0.0341	0.0000	1,476.9409
Total	**0.6706**	**3.1692**	**5.6246**	**0.0259**	**1.6673**	**0.0173**	**1.6846**	**0.4581**	**0.0161**	**0.4741**	**0.0000**	**2,406.2188**	**2,406.2188**	**0.0838**	**0.0000**	**2,408.3128**

3.6 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	0.2073	1.8494	2.4558	4.1300e-003		0.0779	0.0779		0.0739	0.0739	0.0000	355.2781	355.2781	0.0735	0.0000	357.1146
Total	**0.2073**	**1.8494**	**2.4558**	**4.1300e-003**		**0.0779**	**0.0779**		**0.0739**	**0.0739**	**0.0000**	**355.2781**	**355.2781**	**0.0735**	**0.0000**	**357.1146**

3.6 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0798	2.7494	0.8336	9.5000e-003	0.2499	3.1100e-003	0.2530	0.0721	2.9700e-003	0.0751	0.0000	925.2383	925.2383	0.0490	0.0000	926.4621
Worker	0.5629	0.3626	4.4607	0.0158	1.8891	0.0137	1.9027	0.5017	0.0126	0.5143	0.0000	1,424.8190	1,424.8190	0.0312	0.0000	1,425.6000
Total	**0.6427**	**3.1120**	**5.2943**	**0.0253**	**2.1390**	**0.0168**	**2.1558**	**0.5739**	**0.0156**	**0.5894**	**0.0000**	**2,350.0573**	**2,350.0573**	**0.0802**	**0.0000**	**2,352.0620**

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	0.1038	1.6008	2.7304	4.1300e-003		0.0111	0.0111		0.0111	0.0111	0.0000	355.2777	355.2777	0.0735	0.0000	357.1142
Total	**0.1038**	**1.6008**	**2.7304**	**4.1300e-003**		**0.0111**	**0.0111**		**0.0111**	**0.0111**	**0.0000**	**355.2777**	**355.2777**	**0.0735**	**0.0000**	**357.1142**

3.6 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0798	2.7494	0.8336	9.5000e-003	0.2039	3.1100e-003	0.2071	0.0609	2.9700e-003	0.0638	0.0000	925.2383	925.2383	0.0490	0.0000	926.4621
Worker	0.5629	0.3626	4.4607	0.0158	1.4634	0.0137	1.4770	0.3972	0.0126	0.4098	0.0000	1,424.8190	1,424.8190	0.0312	0.0000	1,425.6000
Total	**0.6427**	**3.1120**	**5.2943**	**0.0253**	**1.6673**	**0.0168**	**1.6841**	**0.4581**	**0.0156**	**0.4736**	**0.0000**	**2,350.0573**	**2,350.0573**	**0.0802**	**0.0000**	**2,352.0620**

3.6 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	0.0246	0.2197	0.2917	4.9000e-004		9.2600e-003	9.2600e-003		8.7700e-003	8.7700e-003	0.0000	42.1978	42.1978	8.7300e-003	0.0000	42.4159
Total	**0.0246**	**0.2197**	**0.2917**	**4.9000e-004**		**9.2600e-003**	**9.2600e-003**		**8.7700e-003**	**8.7700e-003**	**0.0000**	**42.1978**	**42.1978**	**8.7300e-003**	**0.0000**	**42.4159**

3.6 Building Construction - 2027

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	9.2900e-003	0.3236	0.0974	1.1200e-003	0.0297	3.6000e-004	0.0301	8.5700e-003	3.5000e-004	8.9100e-003	0.0000	109.3733	109.3733	5.7300e-003	0.0000	109.5165
Worker	0.0638	0.0397	0.4965	1.8100e-003	0.2244	1.5300e-003	0.2259	0.0596	1.4100e-003	0.0610	0.0000	163.8374	163.8374	3.4000e-003	0.0000	163.9225
Total	**0.0731**	**0.3633**	**0.5939**	**2.9300e-003**	**0.2541**	**1.8900e-003**	**0.2560**	**0.0682**	**1.7600e-003**	**0.0699**	**0.0000**	**273.2106**	**273.2106**	**9.1300e-003**	**0.0000**	**273.4389**

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	0.0123	0.1901	0.3243	4.9000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003	0.0000	42.1977	42.1977	8.7300e-003	0.0000	42.4159
Total	**0.0123**	**0.1901**	**0.3243**	**4.9000e-004**		**1.3200e-003**	**1.3200e-003**		**1.3200e-003**	**1.3200e-003**	**0.0000**	**42.1977**	**42.1977**	**8.7300e-003**	**0.0000**	**42.4159**

3.6 Building Construction - 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	9.2900e-003	0.3236	0.0974	1.1200e-003	0.0242	3.6000e-004	0.0246	7.2300e-003	3.5000e-004	7.5700e-003	0.0000	109.3733	109.3733	5.7300e-003	0.0000	109.5165
Worker	0.0638	0.0397	0.4965	1.8100e-003	0.1738	1.5300e-003	0.1753	0.0472	1.4100e-003	0.0486	0.0000	163.8374	163.8374	3.4000e-003	0.0000	163.9225
Total	**0.0731**	**0.3633**	**0.5939**	**2.9300e-003**	**0.1980**	**1.8900e-003**	**0.1999**	**0.0544**	**1.7600e-003**	**0.0562**	**0.0000**	**273.2106**	**273.2106**	**9.1300e-003**	**0.0000**	**273.4389**

3.7 Building Construction (Pile Rig Use) - 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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Building Construction (Pile Rig Use) - 2027

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	6.0000e-004	0.0209	6.2800e-003	7.0000e-005	1.9200e-003	2.0000e-005	1.9400e-003	5.5000e-004	2.0000e-005	5.8000e-004	0.0000	7.0563	7.0563	3.7000e-004	0.0000	7.0656
Worker	4.1200e-003	2.5600e-003	0.0320	1.2000e-004	0.0145	1.0000e-004	0.0146	3.8400e-003	9.0000e-005	3.9400e-003	0.0000	10.5702	10.5702	2.2000e-004	0.0000	10.5756
Total	**4.7200e-003**	**0.0234**	**0.0383**	**1.9000e-004**	**0.0164**	**1.2000e-004**	**0.0165**	**4.3900e-003**	**1.1000e-004**	**4.5200e-003**	**0.0000**	**17.6265**	**17.6265**	**5.9000e-004**	**0.0000**	**17.6412**

Mitigated Construction On-Site

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

3.7 Building Construction (Pile Rig Use) - 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	6.0000e-004	0.0209	6.2800e-003	7.0000e-005	1.5600e-003	2.0000e-005	1.5900e-003	4.7000e-004	2.0000e-005	4.9000e-004	0.0000	7.0563	7.0563	3.7000e-004	0.0000	7.0656
Worker	4.1200e-003	2.5600e-003	0.0320	1.2000e-004	0.0112	1.0000e-004	0.0113	3.0400e-003	9.0000e-005	3.1400e-003	0.0000	10.5702	10.5702	2.2000e-004	0.0000	10.5756
Total	**4.7200e-003**	**0.0234**	**0.0383**	**1.9000e-004**	**0.0128**	**1.2000e-004**	**0.0129**	**3.5100e-003**	**1.1000e-004**	**3.6300e-003**	**0.0000**	**17.6265**	**17.6265**	**5.9000e-004**	**0.0000**	**17.6412**

3.8 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7600e-003	0.0278	0.0365	6.0000e-005		1.4200e-003	1.4200e-003		1.3100e-003	1.3100e-003	0.0000	5.0069	5.0069	1.6200e-003	0.0000	5.0474
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	**4.0500e-003**	**0.0278**	**0.0365**	**6.0000e-005**		**1.4200e-003**	**1.4200e-003**		**1.3100e-003**	**1.3100e-003**	**0.0000**	**5.0069**	**5.0069**	**1.6200e-003**	**0.0000**	**5.0474**

3.8 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.3100e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3578	0.3578	1.0000e-005	0.0000	0.3581
Total	**1.5000e-004**	**1.1000e-004**	**1.3100e-003**	**0.0000**	**4.1000e-004**	**0.0000**	**4.1000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3578**	**0.3578**	**1.0000e-005**	**0.0000**	**0.3581**

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	8.4000e-004	0.0251	0.0432	6.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	5.0069	5.0069	1.6200e-003	0.0000	5.0474
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	**2.1300e-003**	**0.0251**	**0.0432**	**6.0000e-005**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**5.0069**	**5.0069**	**1.6200e-003**	**0.0000**	**5.0474**

3.8 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.3100e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3578	0.3578	1.0000e-005	0.0000	0.3581
Total	**1.5000e-004**	**1.1000e-004**	**1.3100e-003**	**0.0000**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.3578**	**0.3578**	**1.0000e-005**	**0.0000**	**0.3581**

3.8 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	9.0400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0271**	**0.1784**	**0.2552**	**4.0000e-004**		**8.9300e-003**	**8.9300e-003**		**8.2100e-003**	**8.2100e-003**	**0.0000**	**35.0470**	**35.0470**	**0.0113**	**0.0000**	**35.3304**

3.8 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	7.2000e-004	8.4100e-003	3.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4130	2.4130	6.0000e-005	0.0000	2.4146
Total	**1.0000e-003**	**7.2000e-004**	**8.4100e-003**	**3.0000e-005**	**2.8800e-003**	**2.0000e-005**	**2.9000e-003**	**7.6000e-004**	**2.0000e-005**	**7.8000e-004**	**0.0000**	**2.4130**	**2.4130**	**6.0000e-005**	**0.0000**	**2.4146**

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	5.8500e-003	0.1757	0.3027	4.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	9.0400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0149**	**0.1757**	**0.3027**	**4.0000e-004**		**6.5000e-004**	**6.5000e-004**		**6.5000e-004**	**6.5000e-004**	**0.0000**	**35.0470**	**35.0470**	**0.0113**	**0.0000**	**35.3304**

3.8 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	7.2000e-004	8.4100e-003	3.0000e-005	2.2300e-003	2.0000e-005	2.2500e-003	6.0000e-004	2.0000e-005	6.3000e-004	0.0000	2.4130	2.4130	6.0000e-005	0.0000	2.4146
Total	**1.0000e-003**	**7.2000e-004**	**8.4100e-003**	**3.0000e-005**	**2.2300e-003**	**2.0000e-005**	**2.2500e-003**	**6.0000e-004**	**2.0000e-005**	**6.3000e-004**	**0.0000**	**2.4130**	**2.4130**	**6.0000e-005**	**0.0000**	**2.4146**

3.9 Paving (Crane Use) - 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	8.8000e-004	9.5400e-003	4.5900e-003	1.0000e-005		4.0000e-004	4.0000e-004		3.7000e-004	3.7000e-004	0.0000	1.2674	1.2674	4.1000e-004	0.0000	1.2776
Paving	0.0103					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0112**	**9.5400e-003**	**4.5900e-003**	**1.0000e-005**		**4.0000e-004**	**4.0000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**1.2674**	**1.2674**	**4.1000e-004**	**0.0000**	**1.2776**

3.9 Paving (Crane Use) - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.4000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0689	0.0689	0.0000	0.0000	0.0690
Total	**3.0000e-005**	**2.0000e-005**	**2.4000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0689**	**0.0689**	**0.0000**	**0.0000**	**0.0690**

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	2.4000e-004	3.8100e-003	7.6800e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2674	1.2674	4.1000e-004	0.0000	1.2776
Paving	0.0103					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0106**	**3.8100e-003**	**7.6800e-003**	**1.0000e-005**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.2674**	**1.2674**	**4.1000e-004**	**0.0000**	**1.2776**

3.9 Paving (Crane Use) - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.4000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0689	0.0689	0.0000	0.0000	0.0690
Total	**3.0000e-005**	**2.0000e-005**	**2.4000e-004**	**0.0000**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0689**	**0.0689**	**0.0000**	**0.0000**	**0.0690**

3.10 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3671					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9300e-003	0.0264	0.0416	7.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	5.8725	5.8725	3.2000e-004	0.0000	5.8805
Total	**0.3711**	**0.0264**	**0.0416**	**7.0000e-005**		**1.1800e-003**	**1.1800e-003**		**1.1800e-003**	**1.1800e-003**	**0.0000**	**5.8725**	**5.8725**	**3.2000e-004**	**0.0000**	**5.8805**

3.10 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0104	6.9300e-003	0.0841	2.9000e-004	0.0333	2.5000e-004	0.0335	8.8400e-003	2.3000e-004	9.0700e-003	0.0000	25.9957	25.9957	6.0000e-004	0.0000	26.0107
Total	**0.0104**	**6.9300e-003**	**0.0841**	**2.9000e-004**	**0.0333**	**2.5000e-004**	**0.0335**	**8.8400e-003**	**2.3000e-004**	**9.0700e-003**	**0.0000**	**25.9957**	**25.9957**	**6.0000e-004**	**0.0000**	**26.0107**

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	0.3671					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2500e-003	0.0244	0.0422	7.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	5.8725	5.8725	3.2000e-004	0.0000	5.8805
Total	**0.3684**	**0.0244**	**0.0422**	**7.0000e-005**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**5.8725**	**5.8725**	**3.2000e-004**	**0.0000**	**5.8805**

3.10 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0104	6.9300e-003	0.0841	2.9000e-004	0.0258	2.5000e-004	0.0260	7.0000e-003	2.3000e-004	7.2300e-003	0.0000	25.9957	25.9957	6.0000e-004	0.0000	26.0107
Total	**0.0104**	**6.9300e-003**	**0.0841**	**2.9000e-004**	**0.0258**	**2.5000e-004**	**0.0260**	**7.0000e-003**	**2.3000e-004**	**7.2300e-003**	**0.0000**	**25.9957**	**25.9957**	**6.0000e-004**	**0.0000**	**26.0107**

3.10 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	4.1660					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308
Total	**4.2106**	**0.2990**	**0.4722**	**7.8000e-004**		**0.0134**	**0.0134**		**0.0134**	**0.0134**	**0.0000**	**66.6399**	**66.6399**	**3.6400e-003**	**0.0000**	**66.7308**

3.10 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1125	0.0725	0.8915	3.1500e-003	0.3775	2.7300e-003	0.3803	0.1003	2.5100e-003	0.1028	0.0000	284.7481	284.7481	6.2400e-003	0.0000	284.9042
Total	**0.1125**	**0.0725**	**0.8915**	**3.1500e-003**	**0.3775**	**2.7300e-003**	**0.3803**	**0.1003**	**2.5100e-003**	**0.1028**	**0.0000**	**284.7481**	**284.7481**	**6.2400e-003**	**0.0000**	**284.9042**

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	4.1660					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0142	0.2766	0.4783	7.8000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307
Total	**4.1802**	**0.2766**	**0.4783**	**7.8000e-004**		**1.0300e-003**	**1.0300e-003**		**1.0300e-003**	**1.0300e-003**	**0.0000**	**66.6398**	**66.6398**	**3.6400e-003**	**0.0000**	**66.7307**

3.10 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1125	0.0725	0.8915	3.1500e-003	0.2925	2.7300e-003	0.2952	0.0794	2.5100e-003	0.0819	0.0000	284.7481	284.7481	6.2400e-003	0.0000	284.9042
Total	**0.1125**	**0.0725**	**0.8915**	**3.1500e-003**	**0.2925**	**2.7300e-003**	**0.2952**	**0.0794**	**2.5100e-003**	**0.0819**	**0.0000**	**284.7481**	**284.7481**	**6.2400e-003**	**0.0000**	**284.9042**

3.10 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	0.4948					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3000e-003	0.0355	0.0561	9.0000e-005		1.6000e-003	1.6000e-003		1.6000e-003	1.6000e-003	0.0000	7.9151	7.9151	4.3000e-004	0.0000	7.9259
Total	**0.5001**	**0.0355**	**0.0561**	**9.0000e-005**		**1.6000e-003**	**1.6000e-003**		**1.6000e-003**	**1.6000e-003**	**0.0000**	**7.9151**	**7.9151**	**4.3000e-004**	**0.0000**	**7.9259**

3.10 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0128	7.9400e-003	0.0992	3.6000e-004	0.0448	3.1000e-004	0.0452	0.0119	2.8000e-004	0.0122	0.0000	32.7427	32.7427	6.8000e-004	0.0000	32.7597
Total	**0.0128**	**7.9400e-003**	**0.0992**	**3.6000e-004**	**0.0448**	**3.1000e-004**	**0.0452**	**0.0119**	**2.8000e-004**	**0.0122**	**0.0000**	**32.7427**	**32.7427**	**6.8000e-004**	**0.0000**	**32.7597**

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	0.4948					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6900e-003	0.0329	0.0568	9.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	7.9151	7.9151	4.3000e-004	0.0000	7.9259
Total	**0.4965**	**0.0329**	**0.0568**	**9.0000e-005**		**1.2000e-004**	**1.2000e-004**		**1.2000e-004**	**1.2000e-004**	**0.0000**	**7.9151**	**7.9151**	**4.3000e-004**	**0.0000**	**7.9259**

3.10 Architectural Coating - 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	0.0128	7.9400e-003	0.0992	3.6000e-004	0.0347	3.1000e-004	0.0350	9.4300e-003	2.8000e-004	9.7100e-003	0.0000	32.7427	32.7427	6.8000e-004	0.0000	32.7597
Total	**0.0128**	**7.9400e-003**	**0.0992**	**3.6000e-004**	**0.0347**	**3.1000e-004**	**0.0350**	**9.4300e-003**	**2.8000e-004**	**9.7100e-003**	**0.0000**	**32.7427**	**32.7427**	**6.8000e-004**	**0.0000**	**32.7597**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.2496	5.1421	24.2863	0.0769	8.1839	0.0589	8.2429	2.1895	0.0550	2.2446	0.0000	7,231.5467	7,231.5467	0.4813	0.0000	7,243.5785
Unmitigated	2.2496	5.1421	24.2863	0.0769	8.1839	0.0589	8.2429	2.1895	0.0550	2.2446	0.0000	7,231.5467	7,231.5467	0.4813	0.0000	7,243.5785

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	4,142.34	4,142.34	4142.34	14,154,998	14,154,998
City Park	0.00	0.00	0.00		
Condo/Townhouse High Rise	1,889.66	1,889.66	1889.66	6,457,262	6,457,262
Enclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	694.87	694.87	694.87	1,011,994	1,011,994
Recreational Swimming Pool	0.00	0.00	0.00		
Total	6,726.87	6,726.87	6,726.87	21,624,254	21,624,254

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	39	18	43
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
City Park	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Condo/Townhouse High Rise	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Enclosed Parking with Elevator	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Health Club	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Other Asphalt Surfaces	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Parking Lot	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Quality Restaurant	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Recreational Swimming Pool	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Imperial Avalon - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,749.4607	1,749.4607	0.0950	0.0197	1,757.6936
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,034.3420	2,034.3420	0.1105	0.0229	2,043.9156
NaturalGas Mitigated	0.0578	0.5006	0.2608	3.1500e-003		0.0399	0.0399		0.0399	0.0399	0.0000	571.7177	571.7177	0.0110	0.0105	575.1152
NaturalGas Unmitigated	0.0750	0.6486	0.3313	4.0900e-003		0.0518	0.0518		0.0518	0.0518	0.0000	741.8800	741.8800	0.0142	0.0136	746.2886

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					
Apartments Mid Rise	7.67771e+006	0.0414	0.3538	0.1505	2.2600e-003		0.0286	0.0286		0.0286	0.0286	0.0000	409.7119	409.7119	7.8500e-003	7.5100e-003	412.1466
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	3.50244e+006	0.0189	0.1614	0.0687	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	186.9034	186.9034	3.5800e-003	3.4300e-003	188.0141
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
Health Club	333330	1.8000e-003	0.0163	0.0137	1.0000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	17.7877	17.7877	3.4000e-004	3.3000e-004	17.8934
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Quality Restaurant	2.38883e+006	0.0129	0.1171	0.0984	7.0000e-004		8.9000e-003	8.9000e-003		8.9000e-003	8.9000e-003	0.0000	127.4769	127.4769	2.4400e-003	2.3400e-003	128.2345
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0750**	**0.6486**	**0.3313**	**4.0900e-003**		**0.0518**	**0.0518**		**0.0518**	**0.0518**	**0.0000**	**741.8800**	**741.8800**	**0.0142**	**0.0136**	**746.2886**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	5.74136e+006	0.0310	0.2646	0.1126	1.6900e-003		0.0214	0.0214		0.0214	0.0214	0.0000	306.3810	306.3810	5.8700e-003	5.6200e-003	308.2016
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	2.61911e+006	0.0141	0.1207	0.0514	7.7000e-004		9.7600e-003	9.7600e-003		9.7600e-003	9.7600e-003	0.0000	139.7656	139.7656	2.6800e-003	2.5600e-003	140.5962
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
Health Club	200099	1.0800e-003	9.8100e-003	8.2400e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	10.6781	10.6781	2.0000e-004	2.0000e-004	10.7415
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Quality Restaurant	2.15302e+006	0.0116	0.1055	0.0887	6.3000e-004		8.0200e-003	8.0200e-003		8.0200e-003	8.0200e-003	0.0000	114.8931	114.8931	2.2000e-003	2.1100e-003	115.5758
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0578**	**0.5006**	**0.2608**	**3.1500e-003**		**0.0399**	**0.0399**		**0.0399**	**0.0399**	**0.0000**	**571.7177**	**571.7177**	**0.0110**	**0.0105**	**575.1152**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	3.29875e+006	799.0169	0.0434	8.9800e-003	802.7771
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	1.6035e+006	388.3974	0.0211	4.3600e-003	390.2252
Enclosed Parking with Elevator	2.83155e+006	685.8538	0.0373	7.7100e-003	689.0814
Health Club	204418	49.5137	2.6900e-003	5.6000e-004	49.7467
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	3640	0.8817	5.0000e-005	1.0000e-005	0.8858
Quality Restaurant	456937	110.6786	6.0100e-003	1.2400e-003	111.1994
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		**2,034.3420**	**0.1105**	**0.0229**	**2,043.9156**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	3.2261e+006	781.4215	0.0424	8.7800e-003	785.0988
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	1.57036e+006	380.3707	0.0207	4.2700e-003	382.1607
Enclosed Parking with Elevator	1.82766e+006	442.6917	0.0240	4.9700e-003	444.7750
Health Club	182457	44.1943	2.4000e-003	5.0000e-004	44.4023
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	3640	0.8817	5.0000e-005	1.0000e-005	0.8858
Quality Restaurant	412441	99.9008	5.4300e-003	1.1200e-003	100.3710
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		**1,749.4607**	**0.0950**	**0.0197**	**1,757.6936**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.4877	0.3705	12.6141	2.1100e-003		0.0877	0.0877		0.0877	0.0877	0.0000	282.6311	282.6311	0.0247	4.8100e-003	284.6808
Unmitigated	10.4343	0.4587	20.2287	0.0203		1.2277	1.2277		1.2277	1.2277	128.8437	268.0668	396.9106	0.4039	8.7400e-003	409.6143

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	0.4043					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.6797					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.9731	0.3146	7.7109	0.0197		1.1582	1.1582		1.1582	1.1582	128.8437	247.5934	376.4371	0.3842	8.7400e-003	388.6491
Landscaping	0.3771	0.1441	12.5178	6.6000e-004		0.0694	0.0694		0.0694	0.0694	0.0000	20.4734	20.4734	0.0197	0.0000	20.9652
Total	**10.4343**	**0.4587**	**20.2287**	**0.0203**		**1.2277**	**1.2277**		**1.2277**	**1.2277**	**128.8437**	**268.0668**	**396.9106**	**0.4039**	**8.7400e-003**	**409.6143**

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	0.4043					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.6797					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0265	0.2264	0.0963	1.4400e-003		0.0183	0.0183		0.0183	0.0183	0.0000	262.1577	262.1577	5.0200e-003	4.8100e-003	263.7156
Landscaping	0.3771	0.1441	12.5178	6.6000e-004		0.0694	0.0694		0.0694	0.0694	0.0000	20.4734	20.4734	0.0197	0.0000	20.9652
Total	**6.4877**	**0.3705**	**12.6141**	**2.1000e-003**		**0.0877**	**0.0877**		**0.0877**	**0.0877**	**0.0000**	**282.6311**	**282.6311**	**0.0247**	**4.8100e-003**	**284.6808**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Imperial Avalon - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	383.3716	2.1928	0.0554	454.6951
Unmitigated	441.2454	2.7389	0.0688	530.2211

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	54.2733 / 34.2158	280.4686	1.7828	0.0447	338.3637
City Park	0 / 5.68337	15.2942	8.3000e-004	1.7000e-004	15.3662
Condo/Townhouse High Rise	24.7585 / 15.6086	127.9448	0.8133	0.0204	154.3556
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	1.08942 / 0.667707	5.5784	0.0358	9.0000e-004	6.7403
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.14157 / 0.200526	11.4446	0.1029	2.5300e-003	14.7733
Recreational Swimming Pool	0.100543 / 0.0616233	0.5148	3.3000e-003	8.0000e-005	0.6221
Total		**441.2454**	**2.7389**	**0.0688**	**530.2211**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	43.4186 / 34.2158	242.7901	1.4272	0.0360	289.1929
City Park	0 / 5.68337	15.2942	8.3000e-004	1.7000e-004	15.3662
Condo/Townhouse High Rise	19.8068 / 15.6086	110.7566	0.6511	0.0164	131.9247
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0.871533 / 0.667707	4.8221	0.0287	7.2000e-004	5.7533
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.51326 / 0.200526	9.2636	0.0824	2.0300e-003	11.9271
Recreational Swimming Pool	0.0804347 / 0.0616233	0.4450	2.6400e-003	7.0000e-005	0.5310
Total		**383.3716**	**2.1928**	**0.0554**	**454.6951**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	69.2717	4.0938	0.0000	171.6177
Unmitigated	138.5434	8.1877	0.0000	343.2353

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	383.18	77.7821	4.5968	0.0000	192.7018
City Park	0.41	0.0832	4.9200e-003	0.0000	0.2062
Condo/Townhouse High Rise	174.8	35.4828	2.0970	0.0000	87.9072
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Health Club	104.99	21.3120	1.2595	0.0000	52.7996
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	9.44	1.9162	0.1133	0.0000	4.7474
Recreational Swimming Pool	9.69	1.9670	0.1163	0.0000	4.8731
Total		**138.5434**	**8.1877**	**0.0000**	**343.2353**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	191.59	38.8910	2.2984	0.0000	96.3509
City Park	0.205	0.0416	2.4600e-003	0.0000	0.1031
Condo/Townhouse High Rise	87.4	17.7414	1.0485	0.0000	43.9536
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Health Club	52.495	10.6560	0.6298	0.0000	26.3998
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.72	0.9581	0.0566	0.0000	2.3737
Recreational Swimming Pool	4.845	0.9835	0.0581	0.0000	2.4366
Total		**69.2717**	**4.0938**	**0.0000**	**171.6177**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation