

# Appendix D

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## Energy Memo



## MEMORANDUM

**To:** Imperial Avalon, LLC

**From:** Danielle Regimbal, Michael Baker International  
Eddie Torres, Michael Baker International

**Date:** September 30, 2021

**Subject:** Imperial Avalon Project – Energy Analysis Technical Memorandum

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### PURPOSE

The purpose of this technical memorandum is to evaluate potential short-term construction and long-term operational energy consumption impacts as a result of the proposed Imperial Avalon Project (project) in the City of Carson (City), Los Angeles County (County), California.

### PROJECT LOCATION

The City is located in the South Bay/Harbor area of Los Angeles County, approximately 13 miles south of downtown Los Angeles. 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). 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.

### 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. 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 1, Project Components](#).

**Table 1  
Project Components**

<b>Project Site</b>	<b>1,189,739 square feet   27.31 acres</b>	
<b>Parcels</b>	7337-001-025; -026; 027; -028; -029	
<b>Area of Proposed Site Uses in Square Feet</b>	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
<b>Area of Proposed Site Uses in Square Feet (continued)</b>	Building Area (FAR)	Floor Area Ratio Total Building Area (non-parking floor areas): 1,496,832
<b>Parking</b>	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.	
<b>Building Height</b>	Building heights will range from 45 to 90 feet.	
<b>Density</b>	Multifamily – 69.97 du/ac   Townhomes – 24.85 du/ac   Cumulative – 44.4 du/ac	
<b>Floor Area Ratio</b>	1.26:1 (1,496,832 FAR sf / 1,189,739 site area sf)	
<b>Commercial Areas</b>		
<i>Café / Restaurants</i>		
<b>Square Footage (FAR)</b>	10,352	
<b>Parking</b>	26 stalls	
<b>Residential</b>		
<b>Square Footage (FAR)</b>	1,486,480	
<b>Units</b>	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.	
<b>Parking</b>	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.	
<b>Mix Unit</b>	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 <a href="#">Table 1</a> 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.<sup>1</sup>

### **ENERGY CONSERVATION**

In 1975, largely in response to the oil crisis of the 1970s, the California State Legislature adopted Assembly Bill 1575 (AB 1575), which created the California Energy Commission (CEC). The statutory mission of the CEC is to forecast future energy needs, license thermal power plants of 50 megawatts or larger, develop energy technologies and renewable energy resources, plan for and direct State responses to energy emergencies, and—perhaps most importantly—promote energy efficiency through the adoption and enforcement of appliance and building energy efficiency standards. AB 1575 also amended Public Resources Code Section 21100(b)(3) to require environmental documents to consider the wasteful, inefficient, and unnecessary consumption of energy caused by a project. Thereafter, the California Natural Resources Agency created Appendix F, *Energy Conservation*, in the State's *California*

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

*Environmental Quality Act Guidelines* (CEQA Guidelines). CEQA Guidelines Appendix F is an advisory document that assists CEQA practitioners in determining whether a project will result in the inefficient, wasteful, and unnecessary consumption of energy.

In December 2018, the California Natural Resources Agency finalized updates to the CEQA Guidelines. New CEQA Guidelines Section 15126.2(b) treats “wasteful, inefficient, or unnecessary” energy consumption as a significant environmental impact. As a result, energy thresholds have been incorporated into Appendix G, *Environmental Checklist Form*, of the CEQA Guidelines. This technical memorandum has been prepared to assess the project’s energy impacts in accordance with Appendix G of the CEQA Guidelines.

## **ENVIRONMENTAL SETTING**

### **Electricity/Natural Gas Services**

Southern California Edison (SCE) provides electrical services to the County through State-regulated public utility contracts. Over the past 15 years, electricity generation in California has undergone a transition. Historically, California has relied heavily on oil- and gas-fired plants to generate electricity. Spurred by regulatory measures and tax incentives, California’s electrical system has become more reliant on renewable energy sources, including cogeneration, wind energy, solar energy, geothermal energy, biomass conversion, transformation plants, and small hydroelectric plants. Unlike petroleum production, electricity generation is usually not tied to the location of the fuel source and can be delivered great distances via the electrical grid. The generating capacity of a unit of electricity is expressed in megawatts (MW). Net generation refers to the gross amount of energy produced by a unit, minus the amount of energy the unit consumes. Generation is typically measured in megawatt-hours (MWh), kilowatt-hours (kWh), or gigawatt-hours (GWh).

The Southern California Gas Company (SoCalGas) provides natural gas services to the County. Natural gas is a hydrocarbon fuel found in reservoirs beneath the Earth’s surface and is composed primarily of methane (CH<sub>4</sub>). It is used for space and water heating, process heating and electricity generation, and as transportation fuel. Use of natural gas to generate electricity is expected to increase in coming years as it is a relatively clean alternative to other fossil fuels like oil and coal. In California and throughout the western United States, many new electrical generation plants fired by natural gas are being brought online. Thus, there is great interest in importing liquefied natural gas from other parts of the world. Nearly 45 percent of natural gas burned in California was used for electricity generation.<sup>2</sup> While the supply of natural gas in the United States and production has increased greatly, California produces little and imports 90 percent of its natural gas.<sup>3</sup>

Electricity and natural gas services are available to locations where land uses could be developed. The County’s ongoing development review process includes a review and comment opportunity for privately-owned utility companies, including SCE and SoCalGas, to allow informed input from each utility company on all development proposals. The input facilitates a detailed review of all projects by service purveyors to assess the potential demands for utility services on a project-by-project basis. The ability of utility providers to provide services concurrently with each project is evaluated during the development review

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<sup>2</sup> California Energy Commission, *Supply and Demand of Natural Gas in California*, [https://ww2.energy.ca.gov/almanac/naturalgas\\_data/overview.html](https://ww2.energy.ca.gov/almanac/naturalgas_data/overview.html), accessed June 29, 2021.

<sup>3</sup> Ibid.

process. Utility companies are bound by contract to update energy systems to meet any additional demand.

## Energy Usage

Energy usage is typically quantified using the British Thermal Unit (Btu). Total energy usage in California was 7,802.3 trillion BTUs in 2019 (the most recent year for which this specific data is available), which equates to an average of 197.8 million BTUs per capita.<sup>4</sup> Of California’s total energy usage, the breakdown by sector is 39.4 percent transportation, 23.1 percent industrial, 18.8 percent commercial, and 18.7 percent residential.<sup>5</sup> Electricity and natural gas in California are generally consumed by stationary users such as residences and commercial and industrial facilities, whereas petroleum consumption is generally accounted for by transportation-related energy use.<sup>6</sup> In 2018, taxable gasoline sales (including aviation gasoline) in California accounted for 15,589,042,965 gallons of gasoline and diesel sales in California accounted for 3,073,917,507 gallons of diesel.<sup>7,8</sup>

The electricity consumption attributable to the County from 2010 to 2019 is shown in Table 2, *Electricity Consumption in Los Angeles County 2010-2019*. As indicated in Table 2, electricity consumption in the County remained relatively constant with a slight decrease between 2010 and 2019.

The natural gas consumption attributable to the County from 2010 to 2019 is shown in Table 3, *Natural Gas Consumption in Los Angeles County 2010-2019*. Natural gas consumption in the County remained relatively constant between 2010 and 2019 with no substantial increase or decrease.

**Table 2**  
**Electricity Consumption in Los Angeles County 2010-2019**

Year	Electricity Consumption (in millions of kilowatt hours)
2010	68,272
2011	68,209
2012	69,274
2013	68,366
2014	69,946
2015	69,601
2016	69,448
2017	69,191
2018	68,486
2019	66,118

Source: California Energy Commission, *Electricity Consumption by County*, <http://www.ecdms.energy.ca.gov/elecbycounty.aspx>, accessed June 29, 2021.

<sup>4</sup> U.S. Energy Information Administration, *Table F33: Total energy consumption, price, and expenditure estimates, 2019*, [https://www.eia.gov/state/seds/data.php?incfile=/state/seds/sep\\_fuel/html/fuel\\_te.html&sid=CA](https://www.eia.gov/state/seds/data.php?incfile=/state/seds/sep_fuel/html/fuel_te.html&sid=CA), accessed June 29, 2021.

<sup>5</sup> Ibid.

<sup>6</sup> U.S. Energy Information Administration, *California State Profile and Energy Estimates*, <https://www.eia.gov/state/?sid=CA>, accessed June 29, 2021.

<sup>7</sup> California Department of Tax and Fee Administration, *Net Taxable Gasoline Gallons*, <http://www.cdtfa.ca.gov/taxes-and-fees/MVF-10-Year-Report.pdf>, accessed June 29, 2021.

<sup>8</sup> California Department of Tax and Fee Administration, *Fuel Taxes Statistics & Reports*, <https://www.cdtfa.ca.gov/taxes-and-fees/spftrpts.htm>, accessed August 12, 2021.



**Table 3**  
**Natural Gas Consumption in Los Angeles County 2010-2019**

Year	Natural Gas Consumption (in millions of therms)
2010	3,048
2011	3,056
2012	2,959
2013	3,067
2014	2,794
2015	2,762
2016	2,878
2017	2,957
2018	2,921
2019	3,048

Source: California Energy Commission, Gas Consumption by County, <http://www.ecdms.energy.ca.gov/gasbycounty.aspx>, accessed June 29, 2021.

Automotive fuel consumption in the County from 2010 to 2019 is shown in Table 4, *Automotive Fuel Consumption in Los Angeles County 2010-2020*, (projections for year 2020 are also shown).

**Table 4**  
**Automotive Fuel Consumption in Los Angeles County 2010-2020**

Year	On-Road Automotive Fuel Consumption (Gallons)	Heavy-Duty Vehicle/Diesel Fuel Consumption (Construction Equipment) (Gallons)
2010	4,117,442,025	445,107,369.31
2011	4,046,955,751	459,208,265.38
2012	4,012,068,093	455,587,873.56
2013	4,023,829,954	482,997,400.45
2014	4,060,941,103	483,501,695.01
2015	4,187,232,991	483,293,224.63
2016	4,292,246,007	516,329,430.87
2017	4,294,811,615	517,173,294.86
2018	4,189,699,939	525,148,755.84
2019	4,073,114,700	529,979,035.56
2020 (projected)	3,975,480,911	533,800,838.05

Source: California Air Resources Board, EMFAC2017.

## REGULATORY SETTING

### State

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 requires 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 requires 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 four years thereafter, that includes specified information relating to the implementation of the policy.

California Building Energy Efficiency Standards (Title 24). In 1978, the CEC established Title 24, California's energy efficiency standards for residential and non-residential buildings, in response to a legislative mandate to create uniform building codes to reduce California's energy consumption. In 2013, the CEC updated Title 24 standards with more stringent requirements. The 2016 standards substantially reduce electricity and natural gas consumption. Additional savings result from the application of Title 24 standards on building alterations. For example, requirements for cool roofs, lighting, and air distribution ducts are expected to save additional electricity. These savings are cumulative, doubling as years go by. The 2016 standards went into effect on January 1, 2017. California's energy efficiency standards are updated on an approximate three-year cycle. The 2019 Title 24 standards were recently adopted and go into effect on January 1, 2020. Under 2019 standards, nonresidential buildings will use about 30 percent less energy, mainly due to lighting upgrades, when compared to nonresidential buildings constructed under 2016 standards, and residential buildings will use about 53 percent less energy than those under the 2016 standards.<sup>9</sup>

California Green Building Standards. The California Green Building Standards (CALGreen) Code (California Code of Regulations Title 24, Part 11), is a Statewide mandatory construction code that was developed and adopted by the California Building Standards Commission and the California Department of Housing and Community Development. CALGreen standards require new residential and commercial buildings to comply with mandatory measures under five topical areas: planning and design; energy efficiency; water efficiency and conservation; material conservation and resource efficiency; and environmental quality. CALGreen also provides voluntary tiers and measures that local governments may adopt which encourage or require additional measures in the five green building topics. The most recent update to the CALGreen Code was adopted in 2019 and took effect on January 1, 2020. CALGreen requires new buildings to reduce water consumption by 20 percent, divert 50 percent of construction waste from landfills, and install low pollutant-emitting materials, among others.

California Energy Commission Integrated Energy Policy Report. In 2002, the California State legislature adopted Senate Bill (SB) 1389, which requires the CEC to develop an Integrated Energy Policy Report (IEPR) every two years. SB 1389 requires the CEC to conduct assessments and forecasts of all aspects of energy industry supply, production, transportation, delivery and distribution, demand, and prices, and use these assessments and forecasts to develop energy policies that conserve resources, protect the environment, ensure energy reliability, enhance the State's economy, and protect public health and safety.

The CEC adopted the 2019 IEPR on February 20, 2020. The 2019 IEPR provides the results of the CEC's assessments of various energy issues facing California and covers a broad range of topics, including implementation of SB 100 (statewide greenhouse gas reduction targets), integrated resource planning,

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<sup>9</sup> California Energy Commission, *2019 Building Energy Efficiency Standards*, [https://www.energy.ca.gov/sites/default/files/2020-03/Title\\_24\\_2019\\_Building\\_Standards\\_FAQ\\_ada.pdf](https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf), accessed June 29, 2021.

distributed energy resources, transportation electrification, solutions to increase resiliency in the electricity sector, energy efficiency, transportation electrification, barriers faced by disadvantaged communities, demand response, transmission, landscape-scale planning, electricity and natural gas demand forecast, transportation energy demand forecast, renewable gas, updates on Southern California's electricity reliability, natural gas outlook, and climate adaptation and resiliency.

## **Local**

City of Carson Energy Efficiency Climate Action Plan. The *City of Carson 2015 Energy Efficiency Climate Action Plan* (EECAP) includes goals and policies to incorporate environmental responsibility into its daily management of its community and municipal operations. The EECAP includes a list of emission reduction actions organized by sector and a time frame for implementation. The EECAP classifies the reduction targets into two separate categories, community and municipal emissions. Energy efficiency strategies are outlined in the EECAP with goals and measures defined for each of the two categories.

Climate Action Plan. In December 2017, the City adopted the 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.

## **CEQA THRESHOLDS**

In accordance with the CEQA Guidelines, project impacts are evaluated to determine whether significant adverse environmental impacts would occur. This analysis will focus on the project's potential impacts and provide mitigation measures, if required, to reduce or avoid any potentially significant impacts that are identified. According to Appendix G of the CEQA Guidelines, the proposed project would have a significant impact related to energy, if it would:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation (refer to Impact Statement EN-1); and/or
- Conflict with or obstruct a State or local plan for renewable energy or energy efficiency (refer to Impact Statement EN-2).

Appendix F of the CEQA Guidelines is an advisory document that assists environmental document preparers in determining whether a project will result in the inefficient, wasteful, and unnecessary consumption of energy. The analysis in Impact Statement EN-1 relies upon Appendix F of the CEQA Guidelines, which includes the following criteria to determine whether this threshold of significance is met:

- **Criterion 1:** The project’s energy requirements and its energy use efficiencies by amount and fuel type for each stage of the project including construction, operation, maintenance and/or removal. If appropriate, the energy intensiveness of materials may be discussed.
- **Criterion 2:** The effects of the project on local and regional energy supplies and on requirements for additional capacity.
- **Criterion 3:** The effects of the project on peak and base period demands for electricity and other forms of energy.
- **Criterion 4:** The degree to which the project complies with existing energy standards.
- **Criterion 5:** The effects of the project on energy resources.
- **Criterion 6:** The project’s projected transportation energy use requirements and its overall use of efficient transportation alternatives.

Quantification of the project’s energy usage is presented and addresses **Criterion 1**. The discussion on construction-related energy use focuses on **Criteria 2, 4, and 5**. The discussion on operational energy use is divided into transportation energy demand and building energy demand. The transportation energy demand analysis discusses **Criteria 2, 4, and 6**, and the building energy demand analysis discusses **Criteria 2, 3, 4, and 5**.

## IMPACT ANALYSIS

The impact analysis focuses on three energy sources that are relevant to the proposed project: electricity, natural gas, and transportation fuel for vehicle trips associated with construction and operations of the project.

## ENERGY CONSUMPTION

### EN-1 WOULD THE PROJECT RESULT IN WASTEFUL, INEFFICIENT, OR UNNECESSARY CONSUMPTION OF ENERGY RESOURCES?

This analysis focuses on three sources of energy that are relevant to the proposed project: electricity, natural gas, and transportation fuel for vehicle trips associated with project construction and operations. The analysis of operational electricity is based on the California Emissions Estimator Model version 2016.3.2 (CalEEMod) modeling results for the project. The project’s estimated electricity consumption is based primarily on CalEEMod’s default settings for Los Angeles County, and consumption factors provided by SCE and SoCalGas, who are the electricity and natural gas providers for the City and the project site. The results of the CalEEMod modeling are included in [Appendix A, Energy Data](#). The amount of operational fuel consumption was estimated using the California Air Resources Board (CARB) Emissions Factor 2017 (EMFAC2017) computer program which provides projections for typical daily fuel (i.e. diesel and gasoline) usage in Los Angeles County, and the project’s annual vehicle miles traveled (VMT) outputs from CalEEMod. The estimated construction fuel consumption is based on the project’s construction equipment list timing/phasing, and hours of duration for construction equipment, as well as vendor, hauling, and construction worker trips.

## Existing Uses

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 energy and natural gas use, as well as yearly vehicle miles traveled (VMT) from the Imperial Avalon Mobile Estates mobile home parks; refer to Appendix A. Trip generation rates associated with the existing use were based on the *Imperial Avalon Local Transportation Assessment* (Transportation Assessment) prepared by Fehr and Peers (dated July 16, 2021). According to the Transportation Assessment, the existing project site generates approximately 1,141 mobile daily trips. The existing energy use was deducted from the proposed project's energy use; refer to Appendix A for existing use energy consumption.

## Proposed Project

The project's estimated net energy consumption (project minus existing) is summarized in Table 5, *Net Project and Countywide Energy Consumption*; refer to Appendix A for modeling assumptions. As shown in Table 5, the project's construction and net operational electricity usage would increase Los Angeles County's consumption by 0.0006 and 0.0091 percent, respectively. Natural gas would not be consumed during project construction activities; however, natural gas consumed during project operations represents an approximate 0.0030 percent increase over Los Angeles County's typical annual natural gas consumption. The project's construction and net operational vehicle fuel consumption would increase Los Angeles County's consumption by 0.1080 percent and 0.0307 percent, respectively (**CEQA Appendix F - Criterion 1**).

**Table 5**  
**Project and Countywide Energy Consumption**

Energy Type	Project Annual Energy Consumption <sup>1</sup>	Los Angeles County Annual Energy Consumption <sup>2</sup>	Percentage Increase Countywide <sup>2</sup>
<b>Electricity Consumption</b>			
• Construction Electricity Consumption	389 MWh	66,118,673 MWh	0.0006
• Net Operational Electricity Consumption	6,048 MWh	66,118,673 MWh	0.0091
<b>Natural Gas Consumption<sup>3</sup></b>			
• Net Operational Natural Gas Consumption	92,085 therms	3,048,320,959 therms	0.0030
<b>Fuel Consumption</b>			
• Construction Fuel Consumption <sup>4</sup>	574,270 gallons	531,826,198 gallons	0.1080
• Net Operational Automotive Fuel Consumption <sup>4</sup>	1,010,922 gallons	3,294,542,958 gallons	0.0307

**Table 5 (continued)**  
**Project and Countywide Energy Consumption**

<p>Notes:</p> <ol style="list-style-type: none"> <li>1. As modeled in CalEEMod version 2016.3.2.</li> <li>2. The project increases in electricity and natural gas consumption are compared to the total consumption in Los Angeles County in 2019. The project increases in automotive fuel consumption are compared with the projected Countywide diesel fuel consumption in 2022 (start of construction), and gasoline fuel consumption in 2027 (operational year).  Los Angeles County electricity consumption data source: California Energy Commission, <i>Electricity Consumption by County</i>, <a href="http://www.ecdms.energy.ca.gov/elecbycounty.aspx">http://www.ecdms.energy.ca.gov/elecbycounty.aspx</a>, accessed June 29, 2021.  Los Angeles County natural gas consumption data source: California Energy Commission, <i>Gas Consumption by County</i>, <a href="http://www.ecdms.energy.ca.gov/gasbycounty.aspx">http://www.ecdms.energy.ca.gov/gasbycounty.aspx</a>, accessed June 29, 2021.</li> <li>3. It is anticipated that project construction activities would not consume natural gas.</li> <li>4. Project fuel consumption calculated based on CalEEMod results. Countywide fuel consumption is from the California Air Resources Board EMFAC2017 model.</li> </ol> <p>Refer to Appendix A for assumptions used in this analysis.</p>
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### **Construction-Related Energy**

Project construction would consume energy in two general forms: (1) the electricity and fuel energy consumed by construction vehicles and equipment; and (2) bound energy in construction materials, such as asphalt, steel, concrete, pipes, and manufactured or processed materials such as lumber and glass. It should be noted that construction activities would not consume natural gas.

#### Construction Electricity Consumption

Construction activities would require temporary electricity consumption. As previously discussed, SCE is the electricity provider for the project site. In order to quantify construction electricity consumption, the power cost must be determined. Based on the 2017 National Construction Estimator, the typical power cost per 1,000 square feet of building construction per month is estimated to be \$2.32.<sup>10</sup> The project proposes to develop the site with 1,527,694 square feet of residential uses and 10,352 square feet of commercial uses over the course of approximately 60 months. As a result, the total power cost of the on-site electricity usage during the construction of the proposed project is estimated to be approximately \$214,096. Furthermore, as of June 1, 2021, SCE's general service rate schedule (GS-1) is approximately \$0.11 per kWh of electricity.<sup>11</sup> As shown in Table 5, the electricity usage from project construction related activities is estimated to be approximately 389 MWh per year of construction. Thus, the project's construction electricity consumption would represent a temporary increase of approximately 0.0006 percent in electricity consumption over the current Countywide usage.

#### Construction Transportation Consumption

Fossil fuels used for construction vehicles and other energy-consuming equipment would be used during demolition, grading, paving, building construction, and architectural coatings. Fuel energy consumed during construction would be temporary and would not represent a significant demand on energy

<sup>10</sup> Pray, Richard, *2017 National Construction Estimator*, Carlsbad: Craftsman Book Company, 2017.

<sup>11</sup> Southern California Edison (SCE), *Rates & Pricing Choices: General Service/Industrial Rates*, [https://library.sce.com/content/dam/sce-doclub/public/regulatory/tariff/electric/schedules/general-service-&-industrial-rates/ELECTRIC\\_SCHEDULES\\_GS-1.pdf](https://library.sce.com/content/dam/sce-doclub/public/regulatory/tariff/electric/schedules/general-service-&-industrial-rates/ELECTRIC_SCHEDULES_GS-1.pdf)

resources. In addition, some incidental energy conservation would occur during construction through compliance with California Code of Regulations (CCR), Title 13, Section 2449(d)(3) and 2485, which minimizes the idling time of heavy-duty diesel equipment either by shutting it off when not in use or by reducing the time of idling to no more than five minutes. Project construction equipment would also be required to comply with the latest U.S. Environmental Protection Agency (EPA) and CARB engine emissions standards. These emissions standards require highly efficient combustion systems that maximize fuel efficiency and reduce unnecessary fuel consumption. Due to increasing transportation costs and fuel prices, contractors and owners have a strong financial incentive to avoid wasteful, inefficient, and unnecessary consumption of energy during construction (**CEQA Appendix F - Criterion 4**). As indicated in Table 5, the project's fuel consumption from construction would be approximately 574,270 gallons, which would increase fuel use in the County by 0.1080 percent. As such, construction would have a nominal effect on the local and regional energy supplies. It is noted that construction fuel use is temporary and would cease upon completion of construction activities.

#### Construction Material Consumption

Substantial reductions in energy inputs for construction materials can be achieved by selecting building materials composed of recycled materials that require substantially less energy to produce than non-recycled materials. The project-related incremental increase in the use of energy bound in construction materials such as asphalt, steel, concrete, pipes, and manufactured or processed materials (e.g., lumber and gas) would not substantially increase demand for energy compared to overall local and regional demand for construction materials. It is reasonable to assume that production of building materials such as concrete, steel, etc., would employ all reasonable energy conservation practices in the interest in minimizing the cost of doing business.

It should be noted that energy intensiveness of materials is not addressed because the California Governor's Office of Planning and Research has explained that "a full 'lifecycle' analysis that would account for energy in building materials and consumer products will generally not be required." Such an analysis runs a substantial risk of double counting energy use and associated greenhouse gas emissions.<sup>12</sup>

#### Construction-Related Energy Conclusion

There are no unusual project characteristics that would necessitate the use of construction equipment that would be less energy efficient than at comparable construction sites in the region or State. Therefore, construction fuel consumption would not be any more inefficient, wasteful, or unnecessary than other similar development projects of this nature. As such, a less than significant impact would occur in this regard. (**CEQA Appendix F - Criterion 2**).

### **Operational Energy Consumption**

#### Transportation Energy Demand

Pursuant to the Federal Energy Policy and Conservation Act of 1975, the National Highway Traffic and Safety Administration (NTSA) is responsible for establishing additional vehicle standards and for revising existing standards. Compliance with Federal fuel economy standards is not determined for each individual

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<sup>12</sup> Office of Planning and Research, *Proposed Updates to the CEQA Guidelines, Preliminary Discussion Draft*, 2015.

vehicle model. Rather, compliance is determined based on each manufacturer's average fuel economy for the portion of their vehicles produced for sale in the United States. Table 5 provides an estimate of the daily fuel consumed by vehicles traveling to and from the project site. As indicated in Table 5, project net new operations are estimated to consume approximately 1,010,922 gallons of fuel per year, which would increase Los Angeles County's automotive fuel consumption by 0.0307 percent. The project would not result in any unusual characteristics that would result in excessive operational fuel consumption associated with vehicular travel. Fuel consumption associated with project-related vehicle trips would not be considered inefficient, wasteful, or unnecessary in comparison to other similar developments in the region (**CEQA Appendix F - Criterion 2**).

The key drivers of transportation-related fuel consumption are job locations/commuting distance and many personal choices on when and where to drive for various purposes. Those factors are outside of the scope of the design of the proposed project. However, the project would include on-site electric vehicle charging stations in parking lots in compliance with the CALGreen Code. This would encourage and support the use of electric vehicles by workers and visitors of the proposed project and thus reduce the petroleum fuel consumption (**CEQA Appendix F - Criterion 4 and Criterion 6**). It should be noted that a reduction in petroleum fuel consumption was not accounted for in the project operational automotive fuel consumption identified in Table 5. This is due to the speculative nature of assuming a quantitative reduction in fuel consumption generated by the electric vehicle charging stations. As such, the project operational automotive fuel consumption identified in Table 5 is considered conservative.

Therefore, fuel consumption associated with vehicle trips generated by the project would not be considered inefficient, wasteful, or unnecessary in comparison to other similar developments in the region.

#### Electricity Demand

The CEC developed 2018–2030 forecasts for energy consumption and peak demand in support of the 2017 IEPR for each of the major electricity and natural gas planning areas and the State based on the economic and demographic growth projections. CEC forecasts that the statewide annual average growth rates of energy demand between 2016 and 2030 would be 0.99 percent to 1.59 percent for electricity.<sup>13</sup> As shown in Table 5, the net operational energy consumption of the project would represent approximately 0.0091 percent increase in electricity consumption over the current Countywide usage. Therefore, the project's annual electricity usage would be significantly lower than the CEC's energy demand forecasts. The residential and commercial component of the project would consume electricity during the same time periods as other residential and commercial developments. As a result, the project would not result in unique or more intensive peak or base period electricity demand (**CEQA Appendix F - Criterion 2 and Criterion 3**).

#### Natural Gas Demand

Based on the CEC forecasts, the statewide annual average growth rates of energy demand between 2016 and 2030 would be 0.25 percent to 0.77 percent for natural gas.<sup>14</sup> As shown in Table 5, operational energy

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<sup>13</sup> California Energy Commission, *California Energy Demand 2018-2030 Revised Forecast*, February 2018. Annual average growth rates of electricity demand and natural gas per capita demand are shown in Table 1 and Table 3, respectively.

<sup>14</sup> California Energy Commission, *California Energy Demand 2018-2030 Revised Forecast*, February 2018. Annual average growth rates of electricity demand and natural gas per capita demand are shown in Table 1 and Table 3, respectively.



consumption of the project would represent approximately 0.0030 percent increase in natural gas consumption over the current Countywide usage. Therefore, the project's annual natural gas usage would be significantly lower than the CEC's energy demand forecasts. The residential and commercial component of the project would consume natural gas during the same time periods as other residential and commercial developments. As such, the project would not result in unique or more intensive peak or base period natural gas demand (**CEQA Appendix F - Criterion 2 and Criterion 3**).

#### Operational Energy Efficiency

The proposed project would be required to comply with the 2019 Title 24 Building Energy Efficiency Standards, which provide minimum efficiency standards related to various building features, including photovoltaic solar panels, appliances, water and space heating and cooling equipment, building insulation and roofing, and lighting. Implementation of the 2019 Title 24 standards significantly reduces residential energy usage by 53 percent compared to the 2016 standards, and nonresidential energy usage by 30 percent compared to the 2016 standards.<sup>15</sup> The Title 24 Building Energy Efficiency Standards are updated every three years and become more stringent between each update; therefore, complying with the latest 2019 Title 24 standards would make the proposed project more energy efficient than existing buildings built under the earlier versions of the Title 24 standards (**CEQA Appendix F - Criterion 4**).

Furthermore, the electricity provider, SCE, is subject to California's Renewables Portfolio Standard (RPS). The RPS requires investor-owned utilities, electric service providers, and community choice aggregators to increase procurement from eligible renewable energy resources to 60 percent of total procurement by 2030 and to 100 percent of total procurement by 2045. Renewable energy is generally defined as energy that comes from resources which are naturally replenished within a human timescale such as sunlight, wind, tides, waves, and geothermal heat. The increase in reliance of such energy resources further ensures that new development projects would not result in the waste of the finite energy resources (**CEQA Appendix F - Criterion 5**).

Therefore, the project would not cause wasteful, inefficient, and unnecessary consumption of building energy during project operation, or preempt future energy development or future energy conservation. A less than significant impact would occur.

#### Operational Energy Consumption Conclusion

As depicted in Table 5, operational energy consumption would represent an approximate 0.0091 percent increase in electricity consumption and a 0.0030 percent increase in natural gas consumption over the current Countywide usage. The project would adhere to all Federal, State, and local requirements for energy efficiency, including the Title 24 standards. Additionally, the project would not result in a substantial increase in demand for transmission service, resulting in the need for new or expanded sources of energy supply or new or expanded energy delivery systems or infrastructure. The project would not result in the inefficient, wasteful, or unnecessary consumption of building energy. A less than significant impact would occur in this regard.

***Mitigation Measures:*** *No mitigation measures are required.*

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<sup>15</sup> California Energy Commission, *2019 Building Energy Efficiency Standards*, [https://www.energy.ca.gov/sites/default/files/2020-03/Title\\_24\\_2019\\_Building\\_Standards\\_FAQ\\_ada.pdf](https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf), accessed June 29, 2021.

*Level of Significance: Less Than Significant Impact.*

**CONFLICT WITH APPLICABLE ENERGY PLAN**

**EN-2 WOULD THE PROJECT CONFLICT WITH OR OBSTRUCT A STATE OR LOCAL PLAN FOR RENEWABLE ENERGY OR ENERGY EFFICIENCY?**

The project would comply with all applicable goals and measures identified in the City’s EECAP, as listed in Table 6, *Community-Oriented EECAP Strategies*. The EECAP contains energy efficient goals and measures that would help implement energy efficient measures and would subsequently reduce GHG emissions within the City. Furthermore, the project’s consistency with CAP measures that help reduce energy usage is discussed in Table 7, *Project Consistency with CAP*. As seen in Table 6 and Table 7, the project would comply with all applicable City goal’s for reducing energy usage and implementing energy efficiency. Specifically, compliance with Title 24 and CALGreen standards would ensure the project incorporates energy efficient windows, insulation, lighting, ventilation systems, as well as water efficient fixtures and electric vehicles charging infrastructure. Further, the project’s compliance with Title 24 standards would ensure solar photovoltaic systems are installed for new residential development. Adherence to the Title 24 energy requirements will ensure conformance with the State’s goal of promoting energy and lighting efficiency, and the City’s EECAP and CAP. Therefore, the proposed project would result in less than significant impacts associated with renewable energy or energy efficiency plans.

**Table 6  
Community-Oriented EECAP Strategies**

Goal	Measure	Project Compliance
<p><b>Goal 4:</b> Increase Energy Efficiency in New Commercial Development</p>	<p><b>Measure 2.1:</b> Encourage or Require Energy Efficiency Standards Exceeding Title 24</p>	<p><b>Consistent.</b> As the 2013 Title 24 standards went into effect on July 1, 2014, the 2015 EECAP utilized efficiency measures outlined in the 2013 Title standards. Since then, the 2016 Title 24 and 2019 Title 24 standards were adopted. The 2016 Title 24 standards, which took effect on January 1, 2017, were 5 percent more efficient than the 2013 Title 24 standards for non-residential construction. Further, the 2019 Title 24 standards, which took effect on January 1, 2020, uses 30 percent less energy than non-residential buildings built under the 2016 nonresidential standards, and uses 53 percent less energy than residential buildings built under the 2016 residential standards. This reduction is primarily due to more efficient lighting standards, photovoltaic solar panels, and energy efficient windows/insulation.</p> <p>Therefore, as the project would comply with 2019 Title 24 standards, the project would achieve a substantial reduction in energy usage when compared to the 2013 Title 24 standards required by the EECAP Measure 2.1.</p>

**Table 6 (Continued)**  
**Community-Oriented EECAP Strategies**

Goal	Measure	Project Compliance
<b>Goal 5:</b> Increase Energy Efficiency through Water Efficiency	<b>Measure 5.1:</b> Promote or Require Water Efficiency through The Water Conservation Act of 2009 (SB X7-7)	<b>Consistent.</b> 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.
	<b>Measure 5.2:</b> Promote WE Standards Exceeding SB X7-7	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.
<b>Goal 6:</b> Decrease Energy Demand through Reducing Urban Heat Island Effect	<b>Measure 6.1:</b> Promote Tree Planting for Shading and Energy Efficiency	<b>Consistent.</b> The proposed project would include a 3,000 square foot dog park, a 18,300 square foot central park, 7,000 square feet of greenbelt, as well as front and backyards for the townhomes. This open space would help decrease energy demand by reducing the urban heat island effect on the project site.
	<b>Measure 6.2:</b> Incentivize or Require Light-Reflecting Surfaces	Furthermore, 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. Thus, the project would comply with Measure 6.1 and 6.2.
Sources: City of Carson, <i>Energy Efficiency Climate Action Plan</i> , December 2015. California Energy Commission, <i>2019 Building Energy Efficiency Standards</i> , <a href="https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf">https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf</a> , accessed June 29, 2021.		

**Table 7  
Project Consistency with CAP**

<b>Goal</b>	<b>Measure</b>	<b>Project Compliance</b>
<b>Goal LUT: A</b> – Accelerate the Market for EV Vehicles	<b>Measure LUT: A2 – EV Charging Policies.</b> 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.	<b>Consistent.</b> The project would be consistent with this measure by supporting the use 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 125 EV charging spaces, 76 EV parking spaces, and 380 EV conduits in the townhome garages.
<b>Goal EE: B</b> – Increase Energy Efficiency in New Residential Developments	<b>Measure EE: B1 – Encourage or require EE Standards Exceeding Title 24.</b> 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.	<b>Consistent.</b> The project would comply with the 2019 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. <sup>1</sup>
<b>Goal EE: D</b> – Increase Energy Efficiency in New Commercial Developments	<b>Measure EE: D1 – Encourage or require EE Standards Exceeding Title 24.</b> 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.	<b>Consistent.</b> Refer to Measure EE: B1 response, above.
<b>Goal EE: E</b> – Increase Energy Efficiency through Water Efficiency (WE)	<b>Measure EE: E1 – Promote or Require Water Efficiency through SB X7-7.</b> <b>Measure EE: E2 – Promoting Water Efficiency Standards Exceeding SB X7-7.</b>	<b>Consistent.</b> 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.
<b>Goal EE: F</b> – Decrease energy demand through reducing urban heat island effect.	<b>Measure EE: F1 – Promote Tree Planting for Shading and Energy Efficiency.</b>	<b>Consistent.</b> 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. Refer to Goal 6, Measure 6.1, identified in <a href="#">Table 6</a> for further discussion regarding project landscaping.
Notes: 1. California Energy Commission, <i>2019 Building Energy Efficiency Standards</i> , March 2018.		
Source: City of Carson, <i>Climate Action Plan</i> , December 2017.		

**Mitigation Measures:** *No mitigation measures are required.*

**Level of Significance:** *Less Than Significant Impact.*

## REFERENCES

### Software/Websites

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**Appendix A**  
Energy Data

**Imperial Avalon Project  
Energy Calculations**

Land Use	Natural Gas Use		Electricity Use	
	(kBTU/yr)	(Therms)	(kWh/yr)	(MWh/yr)
<b>Proposed Project</b>				
Apartments Mid Rise	5,741,360	57,414	3,226,100	3,226
City Park	0	0	0	0
Condo/Townhouse high rise	2,619,110	26,191	1,570,360	1,570
Enclosed Parking with Elevator	0	0	1,827,660	1,828
Health Club	200,099	2,001	182,457	182
Other Asphalt	0	0	0	0
Parking Lot	0	0	3,640	4
Quality Restaurant	2,153,020	21,530	412,441	412
Swimming Pool	0	0	0	0
<b>Totals</b>	<b>10,713,589</b>	<b>107,136</b>	<b>7,222,658</b>	<b>7,223</b>
<b>Existing Conditions</b>				
<i>Mobile Home Park</i>	<i>1,505,130</i>	<i>15,051</i>	<i>1,174,610</i>	<i>1,175</i>
<b>Totals</b>	<b>1,505,130</b>	<b>15,051</b>	<b>1,174,610</b>	<b>1,175</b>
<b>NET INCREASE</b>	<b>-</b>	<b>92,085</b>	<b>-</b>	<b>6,048</b>

1 kBTU = 0.01 therms

Energy Type	Net Project Annual Energy Consumption	Los Angeles County Annual Energy	Percentage Increase Countywide
Electricity (MWh)	6,048	66,118,673	0.0091%
Natural Gas (Therms)	92,085	3,048,320,959	0.0030%

Source: Refer to CalEEMod outputs for assumptions used in this analysis.



**Imperial Avalon Project  
Energy Calculations**

**Construction Electricity Consumption**

Power Cost (per 1,000 square foot of building per month of construction)	Total Building Size (1,000 square foot)	Construction Duration (Months)	Total Project Construction Power Cost	Cost per kWh	Total Project Construction Electricity Usage (kWh)	Total Project Construction Electricity Usage per Year (MWh)	Los Angeles County Annual Energy Consumption (MWh)	Annual Percentage Increase Countywide
\$ 2.32	1,538.05	60	\$ 214,096.00	\$ 0.11	1,946,327	389	66,118,673	0.0006%

Notes:  
 1. Power cost data source: Pray, Richard, 2017 National Construction Estimator, Carlsbad: Craftsman Book Company, 2017.  
 2. SCE cost: Southern California Edison (SCE), Rates & Pricing Choices: General Service/Industrial Rates, [https://library.sce.com/content/dam/sce-doelib/public/regulatory/tariff/electric/schedules/general-service-&-industrial-rates/ELECTRIC\\_SCHEDULES\\_GS-1.pdf](https://library.sce.com/content/dam/sce-doelib/public/regulatory/tariff/electric/schedules/general-service-&-industrial-rates/ELECTRIC_SCHEDULES_GS-1.pdf)  
 3. The project increases in construction electricity consumption is compared to the total consumption in Los Angeles County in 2019.  
 Los Angeles County electricity consumption data source: California Energy Commission, Electricity Consumption by County, <http://www.ecdms.energy.ca.gov/elecbycounty.aspx>, accessed November 20, 2020.

**Imperial Avalon Project  
Energy Calculations**

Vehicle Type	Percent of Vehicle Trips <sup>1</sup>	Daily Trips <sup>2</sup>	Net Annual Vehicle Miles Traveled <sup>3</sup>	Average Fuel Economy (miles per gallon) <sup>4</sup>	Total Annual Fuel Consumption (gallons) <sup>5</sup>
<b>Proposed Project</b>					
Passenger Cars	0.55	--	11868644.80	22	539,484
Light/Medium Trucks	0.39	--	8351978.87	17.3	482,773
Heavy Trucks/Other	0.06	--	1403630.33	6.4	219,317
<b>TOTAL<sup>6</sup></b>	<b>1.00</b>	--	<b>21,624,254</b>	--	<b>1,241,574</b>
<b>Existing Conditions</b>					
Passenger Cars	0.55	--	2135099.48	22	97,050
Light/Medium Trucks	0.37	--	1441075.01	17.3	83,299
Heavy Trucks/Other	0.08	--	321941.50	6.4	50,303
<b>TOTAL<sup>6</sup></b>	<b>1.00</b>	--	<b>3,898,116</b>	--	<b>230,652</b>
<b>Net Operational Fuel Consumption</b>					<b>1,010,922</b>
Notes:					
1. Percent of Vehicle Trip distribution based on trip characteristics within the CalEEMod model.					
2. Daily Trips calculated by multiplying the total daily trips by percent vehicle trips (i.e., Daily Trips x percent of Vehicle Trips).					
3. Daily Vehicle Miles Traveled (VMT) calculated by multiplying percent vehicle trips by total VMT (i.e., VMT x percent of Vehicle Trips).					
4. Average fuel economy derived from the Department of Transportation.					
5. Total Daily Fuel Consumption calculated by dividing the daily VMT by the average fuel economy (i.e., VMT/Average Fuel Economy).					
6. Values may be slightly off due to rounding.					
Source: Refer to CalEEMod outputs for assumptions used in this analysis.					

**Imperial Avalon Project  
Energy Calculations**

WORKER TRIPS						
Phase	Phase Length (# days)	# Worker Trips	Worker Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon)	Total Fuel Consumption
Demolition <sup>1</sup>	20	20	14.7	5880		236.12
Grading <sup>1</sup>	240	40	14.7	141120		5666.82
Building Construction <sup>2</sup>	1180	1321	14.7	22914066		920138.58
Paving <sup>1</sup>	40	15	14.7	8820		354.18
Architectural Coating <sup>3</sup>	315	264	14.7	1222452	<b>24.90284233</b>	49088.85
Demolition (Crusher Use) <sup>1</sup>	10	3	14.7	441		17.71
Grading (Sheet Piling) <sup>1</sup>	60	3	14.7	2646		106.25
Building Construction (Pile Rig Use) <sup>2</sup>	2	1321	14.7	38837		1559.56
Paving (Crane Use) <sup>1</sup>	5	3	14.7	221		8.85
<b>977,176.93</b>						
VENDOR TRIPS						
Phase	Phase Length (# days)	# Vendor Trips	Vendor Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon)	Total Fuel Consumption
Demolition	20	0	6.9	0		0.00
Grading	240	0	6.9	0		0.00
Building Construction <sup>4</sup>	1180	304	6.9	2475168		296644.51
Paving	40	0	6.9	0		0.00
Architectural Coating	315	0	6.9	0	<b>8.343886151</b>	0.00
Demolition (Crusher Use)	10	0	6.9	0		0.00
Grading (Sheet Piling)	60	0	6.9	0		0.00
Building Construction (Pile Rig Use) <sup>4</sup>	2	304	6.9	4195		502.79
Paving (Crane Use)	5	0	6.9	0		0.00
<b>297,147.30</b>						
HAULING TRIPS						
Phase	Phase Length (# days)	# Hauling Trips	Hauling Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon)	Total Fuel Consumption
Demolition <sup>5</sup>	20	1466	20	29320		3513.95
Grading <sup>5</sup>	240	15000	20	300000		35954.47
Building Construction	1180	0	20	0		0.00
Paving	40	0	20	0		0.00
Architectural Coating	315	0	20	0	<b>8.343886151</b>	0.00
Demolition (Crusher Use) <sup>5</sup>	10	0	20	0		0.00
Grading (Sheet Piling) <sup>5</sup>	60	0	20	0		0.00
Building Construction (Pile Rig Use)	2	0	20	0		0.00
Paving (Crane Use)	5	0	20	0		0.00
<b>39,468.42</b>						
<b>TOTAL OFF-SITE MOBILE GALLONS CONSUMED DURING CONSTRUCTION</b>						<b>1,313,792.64</b>
Notes:						
1. Worker trips are presented in trips per day. Per CalEEMod User's Guide, CalEEMod quantifies the number of construction workers by multiplying 1.25 times the number of pieces of equipment for all phases (except Building Construction and Architectural Coating).						
2. Worker trips are presented in trips per day. Per CalEEMod User's Guide, the number of Building Construction workers is derived from a study conducted by the Sacramento Metropolitan Air Quality Management District (SMAQMD) which determined the number of workers needed for various types of land uses and corresponding project size.						
3. Worker trips are presented in trips per day. Per CalEEMod User's Guide, the number of Architectural Coating phase workers is approximately 20% of the number of workers needed during the Building Construction phase.						
4. Vendor trips are presented in trips per day. Per CalEEMod User's Guide, the number of vendor trips during the Building Construction phase is derived from a study conducted by the SMAQMD.						
5. Hauling trips are presented in total trips per phase. Per CalEEMod User's Guide, the default values for hauling trips are based on the assumption that a truck can haul 20 tons (or 16 cubic yards) of material per load.						
Source: South Coast Air Quality Management District, <i>CalEEMod User's Guide</i> , dated November 2017. Accessed at: <a href="http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4">http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4</a>						

**Imperial Avalon Project  
Energy Calculations**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Fuel Consumption Rate (gallons per hour)	Duration (total hours/day)	# days	Total Fuel Consumption (gallons)
Demolition	Air Compressors	1	8.00	78	0.48	1.4976	8	20	239.62
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73	2.3652	16	20	756.86
Demolition	Excavators	1	8.00	158	0.38	2.4016	8	20	384.26
Demolition	Rubber Tired Dozers	1	8.00	247	0.4	3.952	8	20	632.32
Demolition	Sweepers/Scrubbers	1	8.00	64	0.46	1.1776	8	20	188.42
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37	1.4356	16	20	459.39
Demolition (Crusher Use)	Crushing/Proc. Equipment	1	8.00	85	0.78	2.652	8	10	212.16
Grading	Concrete/Industrial Saws	1	6.00	81	0.73	2.3652	6	240	3405.89
Grading	Excavators	2	8.00	158	0.38	2.4016	16	240	9222.14
Grading	Forklifts	1	6.00	89	0.2	0.712	6	240	1025.28
Grading	Graders	2	8.00	187	0.41	3.0668	16	240	11776.51
Grading	Rollers	2	8.00	80	0.38	1.216	16	240	4669.44
Grading	Rubber Tired Dozers	1	8.00	247	0.40	3.952	8	240	7587.84
Grading	Scrapers	4	8.00	367	0.48	7.0464	32	240	54116.35
Grading	Sweepers/Scrubbers	1	8.00	64	0.46	1.1776	8	240	2260.99
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37	1.4356	16	240	5512.70
Grading (Sheet Piling)	Other Construcion Equipment	1	8.00	630	0.5	12.6	8	60	6048.00
Building Construction	Concrete/Industrial Saws	1	6.00	81	0.73	2.3652	6	1180	16745.62
Building Construction	Cranes	1	7.00	231	0.29	2.6796	7	1180	22133.50
Building Construction	Forklifts	3	8.00	89	0.20	0.712	24	1180	20163.84
Building Construction	Generator Sets	1	8.00	84	0.74	2.4864	8	1180	23471.62
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37	1.4356	21	1180	35574.17
Building Construction	Welders	1	8.00	46	0.45	0.828	8	1180	7816.32
Building Construction (Pile Rig Use)	Other Construcion Equipment	1	8.00	630	0.5	12.6	8	2	201.60
Paving	Pavers	2	8.00	130	0.42	2.184	16	40	1397.76
Paving	Paving Equipment	2	8.00	132	0.36	1.9008	16	40	1216.51
Paving	Rollers	2	8.00	80	0.38	1.216	16	40	778.24
Paving (Crane Use)	Cranes	1	8.00	231	0.29	2.6796	8	5	107.18
Architectural Coating	Air Compressors	2	6.00	78	0.48	1.4976	12	315	5660.93

								Total:	1,557,558
								Off-Site Mobile Construction Total:	1,313,792.64
								<b>TOTAL:</b>	<b>2,871,351</b>
								<b>TOTAL PER YEAR:</b>	<b>574,270</b>

Notes:  
 Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor  
 Where:  
 Fuel Consumption Factor for a diesel engine is 0.04 gallons per horsepower per hour (gal/hp/hr) and a gasoline engine is 0.06 gal/hp/hr.  
 Source: Refer to CalEEMod outputs for assumptions used in this analysis.

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

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

**1.0 Project Characteristics**

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**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**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2020
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	534	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	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
tblConstructionPhase	NumDays	20.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	0.50
tblProjectCharacteristics	CO2IntensityFactor	702.44	534
tblTripsAndVMT	WorkerTripNumber	13.00	3.00
tblVehicleEF	HHD	0.68	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	2.75	6.77
tblVehicleEF	HHD	1.17	0.49
tblVehicleEF	HHD	3.50	7.9310e-003
tblVehicleEF	HHD	4,770.40	1,064.03
tblVehicleEF	HHD	1,679.50	1,297.06
tblVehicleEF	HHD	10.80	0.07
tblVehicleEF	HHD	22.90	5.66

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tblVehicleEF	HHD	4.59	2.63
tblVehicleEF	HHD	19.58	2.34
tblVehicleEF	HHD	0.02	2.6920e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0700e-004	1.0000e-006
tblVehicleEF	HHD	0.02	2.5750e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8340e-003	8.9010e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	9.9000e-005	1.0000e-006
tblVehicleEF	HHD	1.2200e-004	3.0000e-006
tblVehicleEF	HHD	5.6590e-003	1.1700e-004
tblVehicleEF	HHD	0.69	0.45
tblVehicleEF	HHD	9.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.16	0.02
tblVehicleEF	HHD	4.9400e-004	5.8600e-004
tblVehicleEF	HHD	0.10	2.0000e-006
tblVehicleEF	HHD	0.04	9.8690e-003
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6600e-004	1.0000e-006
tblVehicleEF	HHD	1.2200e-004	3.0000e-006
tblVehicleEF	HHD	5.6590e-003	1.1700e-004
tblVehicleEF	HHD	0.80	0.52
tblVehicleEF	HHD	9.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.27	0.11

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

tblVehicleEF	HHD	4.9400e-004	5.8600e-004
tblVehicleEF	HHD	0.11	3.0000e-006
tblVehicleEF	HHD	0.64	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.00	6.68
tblVehicleEF	HHD	1.17	0.49
tblVehicleEF	HHD	3.33	7.5300e-003
tblVehicleEF	HHD	5,051.17	1,051.40
tblVehicleEF	HHD	1,679.50	1,297.06
tblVehicleEF	HHD	10.80	0.07
tblVehicleEF	HHD	23.63	5.40
tblVehicleEF	HHD	4.34	2.49
tblVehicleEF	HHD	19.57	2.34
tblVehicleEF	HHD	0.02	2.3580e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0700e-004	1.0000e-006
tblVehicleEF	HHD	0.02	2.2560e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8340e-003	8.9010e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	9.9000e-005	1.0000e-006
tblVehicleEF	HHD	1.8800e-004	5.0000e-006
tblVehicleEF	HHD	5.7950e-003	1.1900e-004



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

tblVehicleEF	HHD	0.65	0.48
tblVehicleEF	HHD	1.3300e-004	3.0000e-006
tblVehicleEF	HHD	0.16	0.02
tblVehicleEF	HHD	4.8300e-004	5.7200e-004
tblVehicleEF	HHD	0.10	2.0000e-006
tblVehicleEF	HHD	0.05	9.7510e-003
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6300e-004	1.0000e-006
tblVehicleEF	HHD	1.8800e-004	5.0000e-006
tblVehicleEF	HHD	5.7950e-003	1.1900e-004
tblVehicleEF	HHD	0.76	0.55
tblVehicleEF	HHD	1.3300e-004	3.0000e-006
tblVehicleEF	HHD	0.27	0.11
tblVehicleEF	HHD	4.8300e-004	5.7200e-004
tblVehicleEF	HHD	0.11	3.0000e-006
tblVehicleEF	HHD	0.73	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.78	6.90
tblVehicleEF	HHD	1.16	0.49
tblVehicleEF	HHD	3.53	8.0070e-003
tblVehicleEF	HHD	4,382.68	1,081.47
tblVehicleEF	HHD	1,679.50	1,297.06
tblVehicleEF	HHD	10.80	0.07
tblVehicleEF	HHD	21.89	6.02
tblVehicleEF	HHD	4.51	2.58
tblVehicleEF	HHD	19.58	2.34

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tblVehicleEF	HHD	0.02	3.1530e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0700e-004	1.0000e-006
tblVehicleEF	HHD	0.02	3.0160e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8340e-003	8.9010e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	9.9000e-005	1.0000e-006
tblVehicleEF	HHD	1.2200e-004	3.0000e-006
tblVehicleEF	HHD	6.2650e-003	1.2900e-004
tblVehicleEF	HHD	0.74	0.42
tblVehicleEF	HHD	8.8000e-005	2.0000e-006
tblVehicleEF	HHD	0.16	0.02
tblVehicleEF	HHD	5.3300e-004	6.3100e-004
tblVehicleEF	HHD	0.10	2.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6700e-004	1.0000e-006
tblVehicleEF	HHD	1.2200e-004	3.0000e-006
tblVehicleEF	HHD	6.2650e-003	1.2900e-004
tblVehicleEF	HHD	0.86	0.48
tblVehicleEF	HHD	8.8000e-005	2.0000e-006
tblVehicleEF	HHD	0.27	0.11
tblVehicleEF	HHD	5.3300e-004	6.3100e-004
tblVehicleEF	HHD	0.11	3.0000e-006

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

tblVehicleEF	LDA	6.5530e-003	1.7040e-003
tblVehicleEF	LDA	7.1270e-003	0.03
tblVehicleEF	LDA	0.76	0.53
tblVehicleEF	LDA	1.42	1.73
tblVehicleEF	LDA	296.37	232.38
tblVehicleEF	LDA	61.25	45.54
tblVehicleEF	LDA	0.06	0.02
tblVehicleEF	LDA	0.09	0.14
tblVehicleEF	LDA	2.2990e-003	1.4150e-003
tblVehicleEF	LDA	2.3500e-003	1.4930e-003
tblVehicleEF	LDA	2.1210e-003	1.3020e-003
tblVehicleEF	LDA	2.1610e-003	1.3730e-003
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.12	0.08
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.02	6.1670e-003
tblVehicleEF	LDA	0.04	0.18
tblVehicleEF	LDA	0.10	0.14
tblVehicleEF	LDA	2.9700e-003	2.2990e-003
tblVehicleEF	LDA	6.3700e-004	4.5100e-004
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.12	0.08
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.02	8.9590e-003
tblVehicleEF	LDA	0.04	0.18
tblVehicleEF	LDA	0.11	0.16
tblVehicleEF	LDA	6.9520e-003	1.8280e-003

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

tblVehicleEF	LDA	6.3260e-003	0.03
tblVehicleEF	LDA	0.83	0.58
tblVehicleEF	LDA	1.21	1.48
tblVehicleEF	LDA	310.18	242.91
tblVehicleEF	LDA	61.25	45.09
tblVehicleEF	LDA	0.06	0.02
tblVehicleEF	LDA	0.08	0.13
tblVehicleEF	LDA	2.2990e-003	1.4150e-003
tblVehicleEF	LDA	2.2990e-003	1.4150e-003
tblVehicleEF	LDA	2.3500e-003	1.4930e-003
tblVehicleEF	LDA	2.1210e-003	1.3020e-003
tblVehicleEF	LDA	2.1610e-003	1.3730e-003
tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.12	0.08
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.02	6.5540e-003
tblVehicleEF	LDA	0.04	0.17
tblVehicleEF	LDA	0.09	0.13
tblVehicleEF	LDA	3.1090e-003	2.4030e-003
tblVehicleEF	LDA	6.3300e-004	4.4600e-004
tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.12	0.08
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.03	9.5230e-003
tblVehicleEF	LDA	0.04	0.17
tblVehicleEF	LDA	0.09	0.14
tblVehicleEF	LDA	6.4200e-003	1.6660e-003

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

tblVehicleEF	LDA	7.2950e-003	0.03
tblVehicleEF	LDA	0.73	0.51
tblVehicleEF	LDA	1.46	1.78
tblVehicleEF	LDA	291.32	228.54
tblVehicleEF	LDA	61.25	45.64
tblVehicleEF	LDA	0.06	0.02
tblVehicleEF	LDA	0.09	0.14
tblVehicleEF	LDA	2.2990e-003	1.4150e-003
tblVehicleEF	LDA	2.3500e-003	1.4930e-003
tblVehicleEF	LDA	2.1210e-003	1.3020e-003
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

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

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

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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

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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



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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

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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

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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

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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

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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

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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

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

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

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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



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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

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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

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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

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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

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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

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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

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tblVehicleEF	MDV	0.02	3.5000e-003
tblVehicleEF	MDV	0.02	0.05
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

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tblVehicleEF	MDV	0.02	0.05
tblVehicleEF	MDV	1.90	0.86
tblVehicleEF	MDV	2.66	2.01
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	0.02	0.05
tblVehicleEF	MDV	1.72	0.75
tblVehicleEF	MDV	3.20	2.44
tblVehicleEF	MDV	534.52	348.48
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
tblVehicleEF	MDV	0.11	0.41
tblVehicleEF	MDV	0.28	0.27
tblVehicleEF	MH	0.04	5.4870e-003
tblVehicleEF	MH	0.03	0.02

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

tblVehicleEF	MH	3.53	0.48
tblVehicleEF	MH	7.14	1.74
tblVehicleEF	MH	1,138.98	1,368.13
tblVehicleEF	MH	63.70	16.94
tblVehicleEF	MH	1.26	0.93
tblVehicleEF	MH	0.90	0.24
tblVehicleEF	MH	0.01	0.01
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
tblVehicleEF	MH	7.6200e-004	1.6800e-004
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

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tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	3.59	0.50
tblVehicleEF	MH	6.72	1.64
tblVehicleEF	MH	1,138.98	1,368.15
tblVehicleEF	MH	63.70	16.77
tblVehicleEF	MH	1.15	0.86
tblVehicleEF	MH	0.86	0.23
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
tblVehicleEF	MH	1.74	0.72
tblVehicleEF	MH	0.08	0.04
tblVehicleEF	MH	0.71	0.32
tblVehicleEF	MH	0.13	0.03
tblVehicleEF	MH	0.02	0.75
tblVehicleEF	MH	0.41	0.07
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.5500e-004	1.6600e-004
tblVehicleEF	MH	1.74	0.72
tblVehicleEF	MH	0.08	0.04
tblVehicleEF	MH	0.71	0.32
tblVehicleEF	MH	0.18	0.05
tblVehicleEF	MH	0.02	0.75

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tblVehicleEF	MH	0.45	0.08
tblVehicleEF	MH	0.04	5.4580e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	3.51	0.48
tblVehicleEF	MH	7.19	1.75
tblVehicleEF	MH	1,138.98	1,368.12
tblVehicleEF	MH	63.70	16.97
tblVehicleEF	MH	1.23	0.91
tblVehicleEF	MH	0.91	0.25
tblVehicleEF	MH	0.01	0.01
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	1.35	0.52
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
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.6300e-004	1.6800e-004
tblVehicleEF	MH	1.35	0.52
tblVehicleEF	MH	0.10	0.04
tblVehicleEF	MH	0.51	0.23
tblVehicleEF	MH	0.18	0.04

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

tblVehicleEF	MH	0.02	0.82
tblVehicleEF	MH	0.47	0.09
tblVehicleEF	MHD	0.02	4.1040e-003
tblVehicleEF	MHD	8.6590e-003	1.2130e-003
tblVehicleEF	MHD	0.06	9.8110e-003
tblVehicleEF	MHD	0.44	0.39
tblVehicleEF	MHD	0.61	0.16
tblVehicleEF	MHD	7.49	1.04
tblVehicleEF	MHD	133.10	60.57
tblVehicleEF	MHD	1,158.03	958.19
tblVehicleEF	MHD	65.62	10.04
tblVehicleEF	MHD	0.81	0.31
tblVehicleEF	MHD	1.86	1.08
tblVehicleEF	MHD	9.86	1.64
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
tblVehicleEF	MHD	0.04	5.9950e-003
tblVehicleEF	MHD	8.6100e-004	1.0600e-004
tblVehicleEF	MHD	1.3410e-003	4.4700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.3700e-004	3.1800e-004
tblVehicleEF	MHD	0.09	0.01
tblVehicleEF	MHD	0.03	0.10
tblVehicleEF	MHD	0.46	0.05

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tblVehicleEF	MHD	1.2830e-003	5.7600e-004
tblVehicleEF	MHD	0.01	9.1570e-003
tblVehicleEF	MHD	7.8800e-004	9.9000e-005
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
tblVehicleEF	MHD	0.11	0.01
tblVehicleEF	MHD	0.03	0.10
tblVehicleEF	MHD	0.50	0.05
tblVehicleEF	MHD	0.02	3.8990e-003
tblVehicleEF	MHD	8.7760e-003	1.2350e-003
tblVehicleEF	MHD	0.06	9.4620e-003
tblVehicleEF	MHD	0.32	0.33
tblVehicleEF	MHD	0.62	0.17
tblVehicleEF	MHD	7.11	0.99
tblVehicleEF	MHD	140.97	60.39
tblVehicleEF	MHD	1,158.03	958.20
tblVehicleEF	MHD	65.62	9.95
tblVehicleEF	MHD	0.84	0.30
tblVehicleEF	MHD	1.75	1.02
tblVehicleEF	MHD	9.81	1.63
tblVehicleEF	MHD	1.8900e-003	1.5600e-004
tblVehicleEF	MHD	0.04	6.2720e-003
tblVehicleEF	MHD	0.04	6.2720e-003
tblVehicleEF	MHD	9.3600e-004	1.1500e-004
tblVehicleEF	MHD	1.8090e-003	1.4900e-004

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

tblVehicleEF	MHD	0.04	5.9950e-003
tblVehicleEF	MHD	8.6100e-004	1.0600e-004
tblVehicleEF	MHD	2.0150e-003	6.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.1980e-003	4.4100e-004
tblVehicleEF	MHD	0.09	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.44	0.05
tblVehicleEF	MHD	1.3570e-003	5.7400e-004
tblVehicleEF	MHD	0.01	9.1570e-003
tblVehicleEF	MHD	7.8100e-004	9.9000e-005
tblVehicleEF	MHD	2.0150e-003	6.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.1980e-003	4.4100e-004
tblVehicleEF	MHD	0.11	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.48	0.05
tblVehicleEF	MHD	0.02	4.4000e-003
tblVehicleEF	MHD	8.6270e-003	1.2060e-003
tblVehicleEF	MHD	0.06	9.8670e-003
tblVehicleEF	MHD	0.61	0.47
tblVehicleEF	MHD	0.61	0.16
tblVehicleEF	MHD	7.56	1.05
tblVehicleEF	MHD	122.21	60.83
tblVehicleEF	MHD	1,158.03	958.19

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

tblVehicleEF	MHD	65.62	10.06
tblVehicleEF	MHD	0.78	0.33
tblVehicleEF	MHD	1.83	1.06
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
tblVehicleEF	MHD	8.6100e-004	1.0600e-004
tblVehicleEF	MHD	1.4110e-003	4.4200e-004
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.2400e-004	3.0600e-004
tblVehicleEF	MHD	0.09	0.01
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.46	0.05
tblVehicleEF	MHD	1.1810e-003	5.7800e-004
tblVehicleEF	MHD	0.01	9.1570e-003
tblVehicleEF	MHD	7.8900e-004	1.0000e-004
tblVehicleEF	MHD	1.4110e-003	4.4200e-004
tblVehicleEF	MHD	0.06	0.02
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



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

tblVehicleEF	OBUS	0.01	8.1460e-003
tblVehicleEF	OBUS	0.01	3.1690e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.29	0.66
tblVehicleEF	OBUS	0.68	0.39
tblVehicleEF	OBUS	6.09	2.04
tblVehicleEF	OBUS	110.73	96.32
tblVehicleEF	OBUS	1,273.03	1,243.39
tblVehicleEF	OBUS	68.83	17.04
tblVehicleEF	OBUS	0.65	0.40
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

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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

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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

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

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

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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

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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

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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

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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



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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

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

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

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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

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

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

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	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
<b>Total</b>	<b>2.2608</b>	<b>1.0026</b>	<b>8.1735</b>	<b>0.0179</b>	<b>1.4741</b>	<b>0.2435</b>	<b>1.7176</b>	<b>0.3943</b>	<b>0.2429</b>	<b>0.6371</b>	<b>49.5597</b>	<b>1,771.5951</b>	<b>1,821.1548</b>	<b>1.9106</b>	<b>0.0184</b>	<b>1,874.3940</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	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
<b>Total</b>	<b>1.5287</b>	<b>0.9862</b>	<b>6.7610</b>	<b>0.0145</b>	<b>1.4741</b>	<b>0.0321</b>	<b>1.5062</b>	<b>0.3943</b>	<b>0.0314</b>	<b>0.4257</b>	<b>25.6604</b>	<b>1,774.2966</b>	<b>1,799.9570</b>	<b>1.8403</b>	<b>0.0176</b>	<b>1,851.2201</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>32.38</b>	<b>1.63</b>	<b>17.28</b>	<b>18.92</b>	<b>0.00</b>	<b>86.82</b>	<b>12.31</b>	<b>0.00</b>	<b>87.07</b>	<b>33.19</b>	<b>48.22</b>	<b>-0.15</b>	<b>1.16</b>	<b>3.68</b>	<b>3.97</b>	<b>1.24</b>

**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**

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**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**



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**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
<b>Total</b>	<b>4.5000e-004</b>	<b>4.5600e-003</b>	<b>4.6900e-003</b>	<b>1.0000e-005</b>	<b>1.9000e-004</b>	<b>2.8000e-004</b>	<b>4.7000e-004</b>	<b>1.0000e-004</b>	<b>2.6000e-004</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.5692</b>	<b>0.5692</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5738</b>

**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
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0153</b>	<b>0.0153</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0153</b>

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**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
<b>Total</b>	<b>4.5000e-004</b>	<b>4.5600e-003</b>	<b>4.6900e-003</b>	<b>1.0000e-005</b>	<b>1.9000e-004</b>	<b>2.8000e-004</b>	<b>4.7000e-004</b>	<b>1.0000e-004</b>	<b>2.6000e-004</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.5692</b>	<b>0.5692</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5738</b>

**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
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0153</b>	<b>0.0153</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0153</b>

**4.0 Operational Detail - Mobile**

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

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3847	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**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	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**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
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

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

**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

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
<b>Total</b>		<b>8.1200e-003</b>	<b>0.0694</b>	<b>0.0295</b>	<b>4.4000e-004</b>		<b>5.6100e-003</b>	<b>5.6100e-003</b>		<b>5.6100e-003</b>	<b>5.6100e-003</b>	<b>0.0000</b>	<b>80.3195</b>	<b>80.3195</b>	<b>1.5400e-003</b>	<b>1.4700e-003</b>	<b>80.7968</b>

**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
<b>Total</b>		<b>8.1200e-003</b>	<b>0.0694</b>	<b>0.0295</b>	<b>4.4000e-004</b>		<b>5.6100e-003</b>	<b>5.6100e-003</b>		<b>5.6100e-003</b>	<b>5.6100e-003</b>	<b>0.0000</b>	<b>80.3195</b>	<b>80.3195</b>	<b>1.5400e-003</b>	<b>1.4700e-003</b>	<b>80.7968</b>

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

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

**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
<b>Total</b>		<b>284.5132</b>	<b>0.0155</b>	<b>3.2000e-003</b>	<b>285.8521</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

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
<b>Total</b>	<b>1.8680</b>	<b>0.0853</b>	<b>3.7584</b>	<b>3.7700e-003</b>		<b>0.2276</b>	<b>0.2276</b>		<b>0.2276</b>	<b>0.2276</b>	<b>23.8993</b>	<b>49.7165</b>	<b>73.6158</b>	<b>0.0750</b>	<b>1.6200e-003</b>	<b>75.9734</b>

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

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0845					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
<b>Total</b>	<b>1.1359</b>	<b>0.0689</b>	<b>2.3459</b>	<b>3.9000e-004</b>		<b>0.0162</b>	<b>0.0162</b>		<b>0.0162</b>	<b>0.0162</b>	<b>0.0000</b>	<b>52.4180</b>	<b>52.4180</b>	<b>4.6300e-003</b>	<b>8.9000e-004</b>	<b>52.7994</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



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

	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
<b>Total</b>		<b>75.7568</b>	<b>0.4816</b>	<b>0.0121</b>	<b>91.3948</b>

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

**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
<b>Total</b>		<b>75.7568</b>	<b>0.4816</b>	<b>0.0121</b>	<b>91.3948</b>

**8.0 Waste Detail**

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**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

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

**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
<b>Total</b>		<b>21.0096</b>	<b>1.2416</b>	<b>0.0000</b>	<b>52.0503</b>

**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
<b>Total</b>		<b>21.0096</b>	<b>1.2416</b>	<b>0.0000</b>	<b>52.0503</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Existing Operational Run - Imperial Avalon - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Imperial Avalon - Los Angeles-South Coast County, Annual

**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**

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

**1.3 User Entered Comments & Non-Default Data**

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

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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.

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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
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

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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



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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

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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

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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

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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

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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

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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

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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

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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



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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

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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

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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

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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

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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

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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

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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

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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



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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

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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

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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

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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

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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

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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

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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

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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



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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

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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

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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

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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

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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

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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

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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

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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
tblVehicleEF	MH	1,114.66	1,368.12
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



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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
tblVehicleEF	MHD	0.02	4.1040e-003
tblVehicleEF	MHD	2.6900e-003	1.2130e-003
tblVehicleEF	MHD	0.04	9.8110e-003
tblVehicleEF	MHD	0.34	0.39
tblVehicleEF	MHD	0.24	0.16
tblVehicleEF	MHD	4.12	1.04
tblVehicleEF	MHD	136.44	60.57
tblVehicleEF	MHD	1,129.34	958.19
tblVehicleEF	MHD	58.54	10.04
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
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tblVehicleEF	MHD	6.8300e-004	1.0600e-004
tblVehicleEF	MHD	8.2500e-004	4.4700e-004

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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
tblVehicleEF	MHD	58.54	9.95
tblVehicleEF	MHD	0.36	0.30
tblVehicleEF	MHD	0.67	1.02

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tblVehicleEF	MHD	10.37	1.63
tblVehicleEF	MHD	5.3000e-005	1.5600e-004
tblVehicleEF	MHD	2.8540e-003	6.2720e-003
tblVehicleEF	MHD	2.8540e-003	6.2720e-003
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tblVehicleEF	MHD	5.1000e-005	1.4900e-004
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tblVehicleEF	MHD	6.8300e-004	1.0600e-004
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
tblVehicleEF	MHD	2.6830e-003	1.2060e-003

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tblVehicleEF	MHD	0.04	9.8670e-003
tblVehicleEF	MHD	0.47	0.47
tblVehicleEF	MHD	0.24	0.16
tblVehicleEF	MHD	4.16	1.05
tblVehicleEF	MHD	125.27	60.83
tblVehicleEF	MHD	1,129.34	958.19
tblVehicleEF	MHD	58.54	10.06
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

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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
tblVehicleEF	OBUS	0.01	8.1460e-003
tblVehicleEF	OBUS	4.3340e-003	3.1690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.66
tblVehicleEF	OBUS	0.34	0.39
tblVehicleEF	OBUS	4.42	2.04
tblVehicleEF	OBUS	110.83	96.32
tblVehicleEF	OBUS	1,238.95	1,243.39
tblVehicleEF	OBUS	66.39	17.04
tblVehicleEF	OBUS	0.24	0.40
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

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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
tblVehicleEF	OBUS	1.0690e-003	9.1600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.4100e-004	1.6900e-004
tblVehicleEF	OBUS	1.3730e-003	1.7400e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.6800e-004	9.2700e-004
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	0.04	0.27
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	0.01	8.2450e-003
tblVehicleEF	OBUS	4.3990e-003	3.2360e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.66
tblVehicleEF	OBUS	0.34	0.40
tblVehicleEF	OBUS	4.18	1.93
tblVehicleEF	OBUS	116.45	95.19
tblVehicleEF	OBUS	1,238.95	1,243.40
tblVehicleEF	OBUS	66.39	16.85
tblVehicleEF	OBUS	0.25	0.38
tblVehicleEF	OBUS	0.67	1.07
tblVehicleEF	OBUS	2.51	0.90
tblVehicleEF	OBUS	1.9000e-005	1.2200e-004

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tblVehicleEF	OBUS	2.8890e-003	7.3770e-003
tblVehicleEF	OBUS	2.8890e-003	7.3770e-003
tblVehicleEF	OBUS	9.0300e-004	1.9900e-004
tblVehicleEF	OBUS	1.8000e-005	1.1600e-004
tblVehicleEF	OBUS	2.7470e-003	7.0430e-003
tblVehicleEF	OBUS	8.3000e-004	1.8300e-004
tblVehicleEF	OBUS	2.0060e-003	2.5300e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	1.0690e-003	1.2870e-003
tblVehicleEF	OBUS	0.04	0.02
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tblVehicleEF	OBUS	0.27	0.09
tblVehicleEF	OBUS	1.1230e-003	9.0500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.3700e-004	1.6700e-004
tblVehicleEF	OBUS	2.0060e-003	2.5300e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0690e-003	1.2870e-003
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.29	0.10
tblVehicleEF	OBUS	0.01	8.0300e-003
tblVehicleEF	OBUS	4.3170e-003	3.1500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.26	0.67

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tblVehicleEF	OBUS	0.34	0.39
tblVehicleEF	OBUS	4.47	2.06
tblVehicleEF	OBUS	103.07	97.88
tblVehicleEF	OBUS	1,238.95	1,243.39
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tblVehicleEF	OBUS	0.70	1.12
tblVehicleEF	OBUS	2.55	0.91
tblVehicleEF	OBUS	2.7000e-005	1.5800e-004
tblVehicleEF	OBUS	2.8890e-003	7.3770e-003
tblVehicleEF	OBUS	9.0300e-004	1.9900e-004
tblVehicleEF	OBUS	2.6000e-005	1.5100e-004
tblVehicleEF	OBUS	2.7470e-003	7.0430e-003
tblVehicleEF	OBUS	8.3000e-004	1.8300e-004
tblVehicleEF	OBUS	1.3690e-003	1.7750e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.4000e-004	9.0000e-004
tblVehicleEF	OBUS	0.04	0.02
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.28	0.10
tblVehicleEF	OBUS	9.9500e-004	9.3000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.4200e-004	1.6900e-004
tblVehicleEF	OBUS	1.3690e-003	1.7750e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07



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tblVehicleEF	OBUS	7.4000e-004	9.0000e-004
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	7.4820e-003	5.0500e-003
tblVehicleEF	SBUS	0.05	7.4940e-003
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tblVehicleEF	SBUS	0.46	0.43
tblVehicleEF	SBUS	6.65	0.99
tblVehicleEF	SBUS	1,045.60	346.55
tblVehicleEF	SBUS	1,039.98	1,026.23
tblVehicleEF	SBUS	61.37	6.29
tblVehicleEF	SBUS	5.89	2.61
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tblVehicleEF	SBUS	4.1530e-003	2.3940e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0090e-003	7.5000e-005
tblVehicleEF	SBUS	3.9730e-003	2.2900e-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	3.6590e-003	1.1240e-003
tblVehicleEF	SBUS	0.03	9.7980e-003
tblVehicleEF	SBUS	1.05	0.40

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tblVehicleEF	SBUS	2.1420e-003	6.5800e-004
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tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.04
tblVehicleEF	SBUS	0.01	3.3130e-003
tblVehicleEF	SBUS	0.01	9.8310e-003
tblVehicleEF	SBUS	7.2900e-004	6.2000e-005
tblVehicleEF	SBUS	3.6590e-003	1.1240e-003
tblVehicleEF	SBUS	0.03	9.7980e-003
tblVehicleEF	SBUS	1.52	0.58
tblVehicleEF	SBUS	2.1420e-003	6.5800e-004
tblVehicleEF	SBUS	0.09	0.08
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	7.5850e-003	5.1060e-003
tblVehicleEF	SBUS	0.05	6.6750e-003
tblVehicleEF	SBUS	8.76	3.49
tblVehicleEF	SBUS	0.47	0.43
tblVehicleEF	SBUS	5.40	0.80
tblVehicleEF	SBUS	1,089.74	351.36
tblVehicleEF	SBUS	1,039.98	1,026.24
tblVehicleEF	SBUS	61.37	5.98
tblVehicleEF	SBUS	6.08	2.64
tblVehicleEF	SBUS	2.36	3.21
tblVehicleEF	SBUS	10.83	1.16
tblVehicleEF	SBUS	3.5010e-003	2.0270e-003

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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0090e-003	7.5000e-005
tblVehicleEF	SBUS	3.3500e-003	1.9390e-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	5.3670e-003	1.6330e-003
tblVehicleEF	SBUS	0.03	9.9100e-003
tblVehicleEF	SBUS	1.05	0.40
tblVehicleEF	SBUS	2.9710e-003	9.0400e-004
tblVehicleEF	SBUS	0.08	0.07
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.32	0.04
tblVehicleEF	SBUS	0.01	3.3590e-003
tblVehicleEF	SBUS	0.01	9.8310e-003
tblVehicleEF	SBUS	7.0800e-004	5.9000e-005
tblVehicleEF	SBUS	5.3670e-003	1.6330e-003
tblVehicleEF	SBUS	0.03	9.9100e-003
tblVehicleEF	SBUS	1.52	0.58
tblVehicleEF	SBUS	2.9710e-003	9.0400e-004
tblVehicleEF	SBUS	0.09	0.08
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.35	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	7.4520e-003	5.0340e-003

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tblVehicleEF	SBUS	0.05	7.6750e-003
tblVehicleEF	SBUS	8.94	3.55
tblVehicleEF	SBUS	0.46	0.43
tblVehicleEF	SBUS	6.87	1.02
tblVehicleEF	SBUS	984.65	339.91
tblVehicleEF	SBUS	1,039.98	1,026.22
tblVehicleEF	SBUS	61.37	6.35
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

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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

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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

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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

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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



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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

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**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
<b>Maximum</b>	<b>5.1731</b>	<b>11.9488</b>	<b>10.1290</b>	<b>0.0345</b>	<b>2.9920</b>	<b>0.3832</b>	<b>3.1695</b>	<b>0.7278</b>	<b>0.3555</b>	<b>1.0694</b>	<b>0.0000</b>	<b>3,165.4992</b>	<b>3,165.4992</b>	<b>0.4360</b>	<b>0.0000</b>	<b>3,171.4291</b>

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**2.1 Overall Construction**

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.6380	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
<b>Maximum</b>	<b>5.0392</b>	<b>6.0703</b>	<b>10.9478</b>	<b>0.0345</b>	<b>2.0233</b>	<b>0.0518</b>	<b>2.0600</b>	<b>0.5375</b>	<b>0.0499</b>	<b>0.5677</b>	<b>0.0000</b>	<b>3,165.4985</b>	<b>3,165.4985</b>	<b>0.4360</b>	<b>0.0000</b>	<b>3,171.4284</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>11.27</b>	<b>23.27</b>	<b>-4.50</b>	<b>0.00</b>	<b>29.11</b>	<b>79.51</b>	<b>32.43</b>	<b>27.35</b>	<b>79.03</b>	<b>37.63</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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

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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

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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	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
<b>Total</b>	<b>12.7588</b>	<b>6.2495</b>	<b>44.8464</b>	<b>0.1013</b>	<b>8.1839</b>	<b>1.3384</b>	<b>9.5223</b>	<b>2.1895</b>	<b>1.3345</b>	<b>3.5240</b>	<b>293.8344</b>	<b>10,690.6336</b>	<b>10,984.4680</b>	<b>11.9365</b>	<b>0.1140</b>	<b>11,316.8533</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	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
<b>Total</b>	<b>8.7950</b>	<b>6.0132</b>	<b>37.1613</b>	<b>0.0821</b>	<b>8.1839</b>	<b>0.1866</b>	<b>8.3705</b>	<b>2.1895</b>	<b>0.1827</b>	<b>2.3722</b>	<b>90.4296</b>	<b>10,197.5699</b>	<b>10,287.9995</b>	<b>6.8986</b>	<b>0.0903</b>	<b>10,487.3808</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>31.07</b>	<b>3.78</b>	<b>17.14</b>	<b>18.92</b>	<b>0.00</b>	<b>86.06</b>	<b>12.10</b>	<b>0.00</b>	<b>86.31</b>	<b>32.68</b>	<b>69.22</b>	<b>4.61</b>	<b>6.34</b>	<b>42.21</b>	<b>20.76</b>	<b>7.33</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	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

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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



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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**

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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
<b>Total</b>	<b>0.0255</b>	<b>0.2321</b>	<b>0.2298</b>	<b>3.9000e-004</b>	<b>0.1586</b>	<b>0.0121</b>	<b>0.1708</b>	<b>0.0240</b>	<b>0.0115</b>	<b>0.0355</b>	<b>0.0000</b>	<b>33.8951</b>	<b>33.8951</b>	<b>7.1900e-003</b>	<b>0.0000</b>	<b>34.0749</b>

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**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
<b>Total</b>	<b>6.6900e-003</b>	<b>0.1889</b>	<b>0.0538</b>	<b>5.8000e-004</b>	<b>0.0148</b>	<b>5.5000e-004</b>	<b>0.0153</b>	<b>4.0400e-003</b>	<b>5.2000e-004</b>	<b>4.5600e-003</b>	<b>0.0000</b>	<b>57.1202</b>	<b>57.1202</b>	<b>3.8700e-003</b>	<b>0.0000</b>	<b>57.2169</b>

**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
<b>Total</b>	<b>8.1900e-003</b>	<b>0.1323</b>	<b>0.2499</b>	<b>3.9000e-004</b>	<b>0.0588</b>	<b>1.4300e-003</b>	<b>0.0602</b>	<b>8.9000e-003</b>	<b>1.3600e-003</b>	<b>0.0103</b>	<b>0.0000</b>	<b>33.8951</b>	<b>33.8951</b>	<b>7.1900e-003</b>	<b>0.0000</b>	<b>34.0749</b>

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**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
<b>Total</b>	<b>6.6900e-003</b>	<b>0.1889</b>	<b>0.0538</b>	<b>5.8000e-004</b>	<b>0.0118</b>	<b>5.5000e-004</b>	<b>0.0124</b>	<b>3.3200e-003</b>	<b>5.2000e-004</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>57.1202</b>	<b>57.1202</b>	<b>3.8700e-003</b>	<b>0.0000</b>	<b>57.2169</b>

**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
<b>Total</b>	<b>2.4000e-003</b>	<b>0.0161</b>	<b>0.0217</b>	<b>4.0000e-005</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>3.0143</b>	<b>3.0143</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>3.0192</b>

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**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
<b>Total</b>	<b>6.0000e-005</b>	<b>5.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1431</b>	<b>0.1431</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1432</b>

**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
<b>Total</b>	<b>6.4000e-004</b>	<b>0.0125</b>	<b>0.0216</b>	<b>4.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>3.0143</b>	<b>3.0143</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>3.0192</b>

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**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
<b>Total</b>	<b>6.0000e-005</b>	<b>5.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1431</b>	<b>0.1431</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1432</b>

**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
<b>Total</b>	<b>0.6722</b>	<b>7.1888</b>	<b>5.4086</b>	<b>0.0116</b>	<b>1.2604</b>	<b>0.3059</b>	<b>1.5663</b>	<b>0.4090</b>	<b>0.2824</b>	<b>0.6914</b>	<b>0.0000</b>	<b>1,013.8481</b>	<b>1,013.8481</b>	<b>0.3168</b>	<b>0.0000</b>	<b>1,021.7678</b>

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**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
<b>Total</b>	<b>0.0679</b>	<b>1.6584</b>	<b>0.5518</b>	<b>5.3300e-003</b>	<b>0.1692</b>	<b>4.9700e-003</b>	<b>0.1741</b>	<b>0.0456</b>	<b>4.7400e-003</b>	<b>0.0504</b>	<b>0.0000</b>	<b>521.6591</b>	<b>521.6591</b>	<b>0.0345</b>	<b>0.0000</b>	<b>522.5203</b>

**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
<b>Total</b>	<b>0.1810</b>	<b>1.6962</b>	<b>6.1031</b>	<b>0.0116</b>	<b>0.4670</b>	<b>0.0301</b>	<b>0.4971</b>	<b>0.1516</b>	<b>0.0291</b>	<b>0.1807</b>	<b>0.0000</b>	<b>1,013.8469</b>	<b>1,013.8469</b>	<b>0.3168</b>	<b>0.0000</b>	<b>1,021.7666</b>

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**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
<b>Total</b>	<b>0.0679</b>	<b>1.6584</b>	<b>0.5518</b>	<b>5.3300e-003</b>	<b>0.1338</b>	<b>4.9700e-003</b>	<b>0.1388</b>	<b>0.0370</b>	<b>4.7400e-003</b>	<b>0.0417</b>	<b>0.0000</b>	<b>521.6591</b>	<b>521.6591</b>	<b>0.0345</b>	<b>0.0000</b>	<b>522.5203</b>

**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
<b>Total</b>	<b>0.1067</b>	<b>1.1081</b>	<b>0.8967</b>	<b>1.9700e-003</b>	<b>0.7485</b>	<b>0.0464</b>	<b>0.7949</b>	<b>0.1277</b>	<b>0.0428</b>	<b>0.1705</b>	<b>0.0000</b>	<b>173.0853</b>	<b>173.0853</b>	<b>0.0540</b>	<b>0.0000</b>	<b>174.4364</b>



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**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
<b>Total</b>	<b>8.4100e-003</b>	<b>0.1863</b>	<b>0.0858</b>	<b>8.7000e-004</b>	<b>0.1093</b>	<b>3.9000e-004</b>	<b>0.1096</b>	<b>0.0275</b>	<b>3.7000e-004</b>	<b>0.0279</b>	<b>0.0000</b>	<b>85.3882</b>	<b>85.3882</b>	<b>5.4600e-003</b>	<b>0.0000</b>	<b>85.5246</b>

**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
<b>Total</b>	<b>0.0306</b>	<b>0.2860</b>	<b>1.0420</b>	<b>1.9700e-003</b>	<b>0.2773</b>	<b>4.9200e-003</b>	<b>0.2822</b>	<b>0.0473</b>	<b>4.7700e-003</b>	<b>0.0521</b>	<b>0.0000</b>	<b>173.0851</b>	<b>173.0851</b>	<b>0.0540</b>	<b>0.0000</b>	<b>174.4362</b>









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**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
<b>Total</b>	<b>2.0000e-004</b>	<b>1.4000e-004</b>	<b>1.6800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.5000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4826</b>	<b>0.4826</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4829</b>

**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
<b>Total</b>	<b>0.1037</b>	<b>0.9301</b>	<b>1.0034</b>	<b>1.6600e-003</b>		<b>0.0484</b>	<b>0.0484</b>		<b>0.0459</b>	<b>0.0459</b>	<b>0.0000</b>	<b>142.8260</b>	<b>142.8260</b>	<b>0.0303</b>	<b>0.0000</b>	<b>143.5835</b>

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**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
<b>Total</b>	<b>0.3264</b>	<b>1.7063</b>	<b>2.8205</b>	<b>0.0113</b>	<b>0.8605</b>	<b>8.8800e-003</b>	<b>0.8694</b>	<b>0.2309</b>	<b>8.2800e-003</b>	<b>0.2391</b>	<b>0.0000</b>	<b>1,051.6833</b>	<b>1,051.6833</b>	<b>0.0415</b>	<b>0.0000</b>	<b>1,052.7212</b>

**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
<b>Total</b>	<b>0.0448</b>	<b>0.6504</b>	<b>1.1008</b>	<b>1.6600e-003</b>		<b>5.6700e-003</b>	<b>5.6700e-003</b>		<b>5.6700e-003</b>	<b>5.6700e-003</b>	<b>0.0000</b>	<b>142.8258</b>	<b>142.8258</b>	<b>0.0303</b>	<b>0.0000</b>	<b>143.5833</b>

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**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
<b>Total</b>	<b>0.3264</b>	<b>1.7063</b>	<b>2.8205</b>	<b>0.0113</b>	<b>0.6707</b>	<b>8.8800e-003</b>	<b>0.6796</b>	<b>0.1843</b>	<b>8.2800e-003</b>	<b>0.1926</b>	<b>0.0000</b>	<b>1,051.6833</b>	<b>1,051.6833</b>	<b>0.0415</b>	<b>0.0000</b>	<b>1,052.7212</b>

**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
<b>Total</b>	<b>0.2370</b>	<b>2.1220</b>	<b>2.4683</b>	<b>4.1100e-003</b>		<b>0.1035</b>	<b>0.1035</b>		<b>0.0981</b>	<b>0.0981</b>	<b>0.0000</b>	<b>353.7678</b>	<b>353.7678</b>	<b>0.0743</b>	<b>0.0000</b>	<b>355.6245</b>



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**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
<b>Total</b>	<b>0.7370</b>	<b>3.2696</b>	<b>6.3999</b>	<b>0.0271</b>	<b>2.1308</b>	<b>0.0179</b>	<b>2.1486</b>	<b>0.5717</b>	<b>0.0166</b>	<b>0.5882</b>	<b>0.0000</b>	<b>2,513.9790</b>	<b>2,513.9790</b>	<b>0.0916</b>	<b>0.0000</b>	<b>2,516.2691</b>

**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
<b>Total</b>	<b>0.1079</b>	<b>1.6049</b>	<b>2.7233</b>	<b>4.1100e-003</b>		<b>0.0129</b>	<b>0.0129</b>		<b>0.0129</b>	<b>0.0129</b>	<b>0.0000</b>	<b>353.7673</b>	<b>353.7673</b>	<b>0.0743</b>	<b>0.0000</b>	<b>355.6240</b>

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**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
<b>Total</b>	<b>0.7370</b>	<b>3.2696</b>	<b>6.3999</b>	<b>0.0271</b>	<b>1.6609</b>	<b>0.0179</b>	<b>1.6788</b>	<b>0.4563</b>	<b>0.0166</b>	<b>0.4729</b>	<b>0.0000</b>	<b>2,513.9790</b>	<b>2,513.9790</b>	<b>0.0916</b>	<b>0.0000</b>	<b>2,516.2691</b>

**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
<b>Total</b>	<b>0.2235</b>	<b>1.9983</b>	<b>2.4765</b>	<b>4.1500e-003</b>		<b>0.0912</b>	<b>0.0912</b>		<b>0.0864</b>	<b>0.0864</b>	<b>0.0000</b>	<b>356.5471</b>	<b>356.5471</b>	<b>0.0743</b>	<b>0.0000</b>	<b>358.4054</b>

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**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
<b>Total</b>	<b>0.7059</b>	<b>3.2424</b>	<b>6.0402</b>	<b>0.0267</b>	<b>2.1472</b>	<b>0.0177</b>	<b>2.1649</b>	<b>0.5761</b>	<b>0.0165</b>	<b>0.5925</b>	<b>0.0000</b>	<b>2,480.2393</b>	<b>2,480.2393</b>	<b>0.0881</b>	<b>0.0000</b>	<b>2,482.4427</b>

**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
<b>Total</b>	<b>0.1063</b>	<b>1.6120</b>	<b>2.7424</b>	<b>4.1500e-003</b>		<b>0.0120</b>	<b>0.0120</b>		<b>0.0120</b>	<b>0.0120</b>	<b>0.0000</b>	<b>356.5466</b>	<b>356.5466</b>	<b>0.0743</b>	<b>0.0000</b>	<b>358.4049</b>

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**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
<b>Total</b>	<b>0.7059</b>	<b>3.2424</b>	<b>6.0402</b>	<b>0.0267</b>	<b>1.6737</b>	<b>0.0177</b>	<b>1.6914</b>	<b>0.4598</b>	<b>0.0165</b>	<b>0.4763</b>	<b>0.0000</b>	<b>2,480.2393</b>	<b>2,480.2393</b>	<b>0.0881</b>	<b>0.0000</b>	<b>2,482.4427</b>

**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
<b>Total</b>	<b>0.2073</b>	<b>1.8494</b>	<b>2.4558</b>	<b>4.1300e-003</b>		<b>0.0779</b>	<b>0.0779</b>		<b>0.0739</b>	<b>0.0739</b>	<b>0.0000</b>	<b>355.2781</b>	<b>355.2781</b>	<b>0.0735</b>	<b>0.0000</b>	<b>357.1146</b>

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**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
<b>Total</b>	<b>0.6706</b>	<b>3.1692</b>	<b>5.6246</b>	<b>0.0259</b>	<b>2.1390</b>	<b>0.0173</b>	<b>2.1563</b>	<b>0.5739</b>	<b>0.0161</b>	<b>0.5899</b>	<b>0.0000</b>	<b>2,406.2188</b>	<b>2,406.2188</b>	<b>0.0838</b>	<b>0.0000</b>	<b>2,408.3128</b>

**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
<b>Total</b>	<b>0.1038</b>	<b>1.6008</b>	<b>2.7304</b>	<b>4.1300e-003</b>		<b>0.0111</b>	<b>0.0111</b>		<b>0.0111</b>	<b>0.0111</b>	<b>0.0000</b>	<b>355.2777</b>	<b>355.2777</b>	<b>0.0735</b>	<b>0.0000</b>	<b>357.1142</b>

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**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
<b>Total</b>	<b>0.6706</b>	<b>3.1692</b>	<b>5.6246</b>	<b>0.0259</b>	<b>1.6673</b>	<b>0.0173</b>	<b>1.6846</b>	<b>0.4581</b>	<b>0.0161</b>	<b>0.4741</b>	<b>0.0000</b>	<b>2,406.2188</b>	<b>2,406.2188</b>	<b>0.0838</b>	<b>0.0000</b>	<b>2,408.3128</b>

**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
<b>Total</b>	<b>0.2073</b>	<b>1.8494</b>	<b>2.4558</b>	<b>4.1300e-003</b>		<b>0.0779</b>	<b>0.0779</b>		<b>0.0739</b>	<b>0.0739</b>	<b>0.0000</b>	<b>355.2781</b>	<b>355.2781</b>	<b>0.0735</b>	<b>0.0000</b>	<b>357.1146</b>

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**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
<b>Total</b>	<b>0.6427</b>	<b>3.1120</b>	<b>5.2943</b>	<b>0.0253</b>	<b>2.1390</b>	<b>0.0168</b>	<b>2.1558</b>	<b>0.5739</b>	<b>0.0156</b>	<b>0.5894</b>	<b>0.0000</b>	<b>2,350.0573</b>	<b>2,350.0573</b>	<b>0.0802</b>	<b>0.0000</b>	<b>2,352.0620</b>

**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
<b>Total</b>	<b>0.1038</b>	<b>1.6008</b>	<b>2.7304</b>	<b>4.1300e-003</b>		<b>0.0111</b>	<b>0.0111</b>		<b>0.0111</b>	<b>0.0111</b>	<b>0.0000</b>	<b>355.2777</b>	<b>355.2777</b>	<b>0.0735</b>	<b>0.0000</b>	<b>357.1142</b>

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**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
<b>Total</b>	<b>0.6427</b>	<b>3.1120</b>	<b>5.2943</b>	<b>0.0253</b>	<b>1.6673</b>	<b>0.0168</b>	<b>1.6841</b>	<b>0.4581</b>	<b>0.0156</b>	<b>0.4736</b>	<b>0.0000</b>	<b>2,350.0573</b>	<b>2,350.0573</b>	<b>0.0802</b>	<b>0.0000</b>	<b>2,352.0620</b>

**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
<b>Total</b>	<b>0.0246</b>	<b>0.2197</b>	<b>0.2917</b>	<b>4.9000e-004</b>		<b>9.2600e-003</b>	<b>9.2600e-003</b>		<b>8.7700e-003</b>	<b>8.7700e-003</b>	<b>0.0000</b>	<b>42.1978</b>	<b>42.1978</b>	<b>8.7300e-003</b>	<b>0.0000</b>	<b>42.4159</b>



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**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
<b>Total</b>	<b>0.0731</b>	<b>0.3633</b>	<b>0.5939</b>	<b>2.9300e-003</b>	<b>0.2541</b>	<b>1.8900e-003</b>	<b>0.2560</b>	<b>0.0682</b>	<b>1.7600e-003</b>	<b>0.0699</b>	<b>0.0000</b>	<b>273.2106</b>	<b>273.2106</b>	<b>9.1300e-003</b>	<b>0.0000</b>	<b>273.4389</b>

**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
<b>Total</b>	<b>0.0123</b>	<b>0.1901</b>	<b>0.3243</b>	<b>4.9000e-004</b>		<b>1.3200e-003</b>	<b>1.3200e-003</b>		<b>1.3200e-003</b>	<b>1.3200e-003</b>	<b>0.0000</b>	<b>42.1977</b>	<b>42.1977</b>	<b>8.7300e-003</b>	<b>0.0000</b>	<b>42.4159</b>





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**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
<b>Total</b>	<b>4.7200e-003</b>	<b>0.0234</b>	<b>0.0383</b>	<b>1.9000e-004</b>	<b>0.0128</b>	<b>1.2000e-004</b>	<b>0.0129</b>	<b>3.5100e-003</b>	<b>1.1000e-004</b>	<b>3.6300e-003</b>	<b>0.0000</b>	<b>17.6265</b>	<b>17.6265</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>17.6412</b>

**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
<b>Total</b>	<b>4.0500e-003</b>	<b>0.0278</b>	<b>0.0365</b>	<b>6.0000e-005</b>		<b>1.4200e-003</b>	<b>1.4200e-003</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>5.0069</b>	<b>5.0069</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>5.0474</b>

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**3.8 Paving - 2022**

**Unmitigated Construction Off-Site**

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

**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
<b>Total</b>	<b>2.1300e-003</b>	<b>0.0251</b>	<b>0.0432</b>	<b>6.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>5.0069</b>	<b>5.0069</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>5.0474</b>

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**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
<b>Total</b>	<b>1.5000e-004</b>	<b>1.1000e-004</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.3578</b>	<b>0.3578</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3581</b>

**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
<b>Total</b>	<b>0.0271</b>	<b>0.1784</b>	<b>0.2552</b>	<b>4.0000e-004</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>		<b>8.2100e-003</b>	<b>8.2100e-003</b>	<b>0.0000</b>	<b>35.0470</b>	<b>35.0470</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3304</b>

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**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
<b>Total</b>	<b>1.0000e-003</b>	<b>7.2000e-004</b>	<b>8.4100e-003</b>	<b>3.0000e-005</b>	<b>2.8800e-003</b>	<b>2.0000e-005</b>	<b>2.9000e-003</b>	<b>7.6000e-004</b>	<b>2.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>2.4130</b>	<b>2.4130</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.4146</b>

**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
<b>Total</b>	<b>0.0149</b>	<b>0.1757</b>	<b>0.3027</b>	<b>4.0000e-004</b>		<b>6.5000e-004</b>	<b>6.5000e-004</b>		<b>6.5000e-004</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>35.0470</b>	<b>35.0470</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3304</b>

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**3.8 Paving - 2023**

**Mitigated Construction Off-Site**

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

**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
<b>Total</b>	<b>0.0112</b>	<b>9.5400e-003</b>	<b>4.5900e-003</b>	<b>1.0000e-005</b>		<b>4.0000e-004</b>	<b>4.0000e-004</b>		<b>3.7000e-004</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.2674</b>	<b>1.2674</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.2776</b>



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**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
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0689</b>	<b>0.0689</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0690</b>

**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
<b>Total</b>	<b>0.0106</b>	<b>3.8100e-003</b>	<b>7.6800e-003</b>	<b>1.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.2674</b>	<b>1.2674</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.2776</b>

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**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
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0689</b>	<b>0.0689</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0690</b>

**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
<b>Total</b>	<b>0.3711</b>	<b>0.0264</b>	<b>0.0416</b>	<b>7.0000e-005</b>		<b>1.1800e-003</b>	<b>1.1800e-003</b>		<b>1.1800e-003</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>5.8725</b>	<b>5.8725</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>5.8805</b>

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**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
<b>Total</b>	<b>0.0104</b>	<b>6.9300e-003</b>	<b>0.0841</b>	<b>2.9000e-004</b>	<b>0.0333</b>	<b>2.5000e-004</b>	<b>0.0335</b>	<b>8.8400e-003</b>	<b>2.3000e-004</b>	<b>9.0700e-003</b>	<b>0.0000</b>	<b>25.9957</b>	<b>25.9957</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>26.0107</b>

**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
<b>Total</b>	<b>0.3684</b>	<b>0.0244</b>	<b>0.0422</b>	<b>7.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>5.8725</b>	<b>5.8725</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>5.8805</b>

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**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
<b>Total</b>	<b>0.0104</b>	<b>6.9300e-003</b>	<b>0.0841</b>	<b>2.9000e-004</b>	<b>0.0258</b>	<b>2.5000e-004</b>	<b>0.0260</b>	<b>7.0000e-003</b>	<b>2.3000e-004</b>	<b>7.2300e-003</b>	<b>0.0000</b>	<b>25.9957</b>	<b>25.9957</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>26.0107</b>

**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
<b>Total</b>	<b>4.2106</b>	<b>0.2990</b>	<b>0.4722</b>	<b>7.8000e-004</b>		<b>0.0134</b>	<b>0.0134</b>		<b>0.0134</b>	<b>0.0134</b>	<b>0.0000</b>	<b>66.6399</b>	<b>66.6399</b>	<b>3.6400e-003</b>	<b>0.0000</b>	<b>66.7308</b>

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**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
<b>Total</b>	<b>0.1125</b>	<b>0.0725</b>	<b>0.8915</b>	<b>3.1500e-003</b>	<b>0.3775</b>	<b>2.7300e-003</b>	<b>0.3803</b>	<b>0.1003</b>	<b>2.5100e-003</b>	<b>0.1028</b>	<b>0.0000</b>	<b>284.7481</b>	<b>284.7481</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>284.9042</b>

**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
<b>Total</b>	<b>4.1802</b>	<b>0.2766</b>	<b>0.4783</b>	<b>7.8000e-004</b>		<b>1.0300e-003</b>	<b>1.0300e-003</b>		<b>1.0300e-003</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>66.6398</b>	<b>66.6398</b>	<b>3.6400e-003</b>	<b>0.0000</b>	<b>66.7307</b>

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**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
<b>Total</b>	<b>0.1125</b>	<b>0.0725</b>	<b>0.8915</b>	<b>3.1500e-003</b>	<b>0.2925</b>	<b>2.7300e-003</b>	<b>0.2952</b>	<b>0.0794</b>	<b>2.5100e-003</b>	<b>0.0819</b>	<b>0.0000</b>	<b>284.7481</b>	<b>284.7481</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>284.9042</b>

**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
<b>Total</b>	<b>0.5001</b>	<b>0.0355</b>	<b>0.0561</b>	<b>9.0000e-005</b>		<b>1.6000e-003</b>	<b>1.6000e-003</b>		<b>1.6000e-003</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>7.9151</b>	<b>7.9151</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>7.9259</b>

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**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
<b>Total</b>	<b>0.0128</b>	<b>7.9400e-003</b>	<b>0.0992</b>	<b>3.6000e-004</b>	<b>0.0448</b>	<b>3.1000e-004</b>	<b>0.0452</b>	<b>0.0119</b>	<b>2.8000e-004</b>	<b>0.0122</b>	<b>0.0000</b>	<b>32.7427</b>	<b>32.7427</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>32.7597</b>

**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
<b>Total</b>	<b>0.4965</b>	<b>0.0329</b>	<b>0.0568</b>	<b>9.0000e-005</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>7.9151</b>	<b>7.9151</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>7.9259</b>

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**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
<b>Total</b>	<b>0.0128</b>	<b>7.9400e-003</b>	<b>0.0992</b>	<b>3.6000e-004</b>	<b>0.0347</b>	<b>3.1000e-004</b>	<b>0.0350</b>	<b>9.4300e-003</b>	<b>2.8000e-004</b>	<b>9.7100e-003</b>	<b>0.0000</b>	<b>32.7427</b>	<b>32.7427</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>32.7597</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



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					
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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	4,142.34	4,142.34	4,142.34	14,154,998	14,154,998
City Park	0.00	0.00	0.00		
Condo/Townhouse High Rise	1,889.66	1,889.66	1,889.66	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		
<b>Total</b>	<b>6,726.87</b>	<b>6,726.87</b>	<b>6,726.87</b>	<b>21,624,254</b>	<b>21,624,254</b>

4.3 Trip Type Information

Imperial Avalon - Los Angeles-South Coast County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
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

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
<b>Total</b>		<b>0.0750</b>	<b>0.6486</b>	<b>0.3313</b>	<b>4.0900e-003</b>		<b>0.0518</b>	<b>0.0518</b>		<b>0.0518</b>	<b>0.0518</b>	<b>0.0000</b>	<b>741.8800</b>	<b>741.8800</b>	<b>0.0142</b>	<b>0.0136</b>	<b>746.2886</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
<b>Total</b>		<b>0.0578</b>	<b>0.5006</b>	<b>0.2608</b>	<b>3.1500e-003</b>		<b>0.0399</b>	<b>0.0399</b>		<b>0.0399</b>	<b>0.0399</b>	<b>0.0000</b>	<b>571.7177</b>	<b>571.7177</b>	<b>0.0110</b>	<b>0.0105</b>	<b>575.1152</b>

Imperial Avalon - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
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
<b>Total</b>		<b>2,034.3420</b>	<b>0.1105</b>	<b>0.0229</b>	<b>2,043.9156</b>

Imperial Avalon - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
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
<b>Total</b>		<b>1,749.4607</b>	<b>0.0950</b>	<b>0.0197</b>	<b>1,757.6936</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

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					
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
<b>Total</b>	<b>10.4343</b>	<b>0.4587</b>	<b>20.2287</b>	<b>0.0203</b>		<b>1.2277</b>	<b>1.2277</b>		<b>1.2277</b>	<b>1.2277</b>	<b>128.8437</b>	<b>268.0668</b>	<b>396.9106</b>	<b>0.4039</b>	<b>8.7400e-003</b>	<b>409.6143</b>



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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4043					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
<b>Total</b>	<b>6.4877</b>	<b>0.3705</b>	<b>12.6141</b>	<b>2.1000e-003</b>		<b>0.0877</b>	<b>0.0877</b>		<b>0.0877</b>	<b>0.0877</b>	<b>0.0000</b>	<b>282.6311</b>	<b>282.6311</b>	<b>0.0247</b>	<b>4.8100e-003</b>	<b>284.6808</b>

**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

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**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
<b>Total</b>		<b>441.2454</b>	<b>2.7389</b>	<b>0.0688</b>	<b>530.2211</b>

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**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
<b>Total</b>		<b>383.3716</b>	<b>2.1928</b>	<b>0.0554</b>	<b>454.6951</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

Imperial Avalon - Los Angeles-South Coast County, Annual

**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

## Imperial Avalon - Los Angeles-South Coast County, Annual

**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
<b>Total</b>		<b>138.5434</b>	<b>8.1877</b>	<b>0.0000</b>	<b>343.2353</b>

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**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
<b>Total</b>		<b>69.2717</b>	<b>4.0938</b>	<b>0.0000</b>	<b>171.6177</b>

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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