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# **Stoneridge Commerce Center Specific Plan (SP No. 239, A1)**

## **ENERGY ANALYSIS**

### **COUNTY OF RIVERSIDE**

PREPARED BY:

Haseeb Qureshi  
hqureshi@urbanxroads.com

Alyssa Tamase  
atamase@urbanxroads.com

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## **LIST OF ABBREVIATED TERMS**

(1)	Reference
AQIA	Air Quality Impact Analysis
ARB	Air Resources Board
BACM	Best Available Control Measures
BTU	British Thermal Units
CalEEMod	California Emissions Estimator Model
CARB	California Air Resources Board
CEC	California Energy Commission
CEQA	California Environmental Quality Act
County	County of Riverside
CPEP	Clean Power and Electrification Pathway
CPUC	California Public Utilities Commission
DMV	Department of Motor Vehicles
EIR	Environmental Impact Report
EMFAC	Emissions Factor
EVs	Electric Vehicles
FERC	Federal Energy Regulatory Commission
GPA	General Plan Amendment
GWh	Gigawatt Hour
IEPR	Integrative Energy Policy Report
ISO	Independent Service Operator
ISTEA	Intermodal Surface Transportation Efficiency Act
ITE	Institute of Transportation Engineers
kBTU	Thousand British Thermal Units
LDA	Light Duty Auto
LDT1	Light Duty Truck 1
LDT2	Light Duty Truck 2
MARB	March Air Reserve Base
MPG	Miles Per Gallon
MPO	Metropolitan Planning Organization
PG&E	Pacific Gas and Electric
Project	Stoneridge Commerce Center Specific Plan (SP No. 239, A1)
SCE	Southern California Edison
RV	Recreational Vehicles
SCAB	South Coast Air Basin

SCAG	Southern California Association of Governments
SDG&E	San Diego Gas and Electric
sf	Square Feet
SoCalGas	Southern California Gas
TAC	Toxic Air Contaminants
TEA-21	Transportation Equity Act for the 21 <sup>st</sup> Century
TIA	Traffic Impact Analysis
VMT	Vehicle Miles Traveled

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## EXECUTIVE SUMMARY

### ES.1 SUMMARY OF FINDINGS

The results of this *Stoneridge Commerce Center Specific Plan (SP No. 239, A1) Energy Analysis* is summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the California Environmental Quality Act (CEQA) Guidelines (1). Table ES-1 shows the findings of significance for potential energy impacts under CEQA.

**TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS**

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Energy Impact #1: Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation.	7.1.1	<i>Less Than Significant</i>	<i>n/a</i>
Energy Impact #2: Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.	7.1.2	<i>Less Than Significant</i>	<i>n/a</i>
Energy Impact #3: <ul style="list-style-type: none"> <li>• Decreasing overall per capita energy consumption.</li> <li>• Decreasing reliance on fossil fuels such as coal, natural gas, and oil.</li> <li>• Increasing reliance on renewable energy sources</li> </ul>	7.1.3	<i>Less Than Significant</i>	<i>n/a</i>

### ES.2 APPLICABLE MITIGATION MEASURES

Consistent with the *Air Quality & Greenhouse Gas Assessment, Stoneridge Commerce Center Specific Plan* prepared by ECORP, the Project would implement the following mitigation measures, would serve to generally reduce energy demand associated with the Project.

#### MM AQ-1

As part of the permits for construction-related blasting activities, the County shall condition the blasting activities as follows:

- During blasting activities, the construction contractor shall implement all feasible engineering controls to control fugitive dust including exhaust ventilation, blasting cabinets and enclosures, vacuum blasters, drapes, water curtains or wet blasting. Watering methods, such as water sprays and water applications shall be implemented during blasting or any activity that would release dust particles to reduce fugitive dust emissions.
- Daily blasting activity shall be limited to the use of 1.72 tons of explosives daily.



Contract specifications shall be included in project construction documents, which shall be reviewed by the County of Riverside prior to the issuance of a blasting permit. The blasting contractor shall maintain records demonstrating compliance with these requirements, which shall be made available to County upon request.

#### **MM AQ-2**

All future construction activities associated with the Project shall be subject to adherence with the Riverside County Board of Supervisors Policy F-3 (“Good Neighbor Policy” for Logistics and Warehouse/Distribution Uses), regardless as to the size of proposed buildings. The following provisions shall apply to all future construction activities on site:

- During all construction activities, all heavy-duty haul trucks accessing the site shall have CARB-approved 2010 engines or newer approved CARB engine standards.
- All excavators, graders, rubber-tired dozers, and similar “off-road” construction equipment shall be CARB Tier 3 Certified engines or better.
- The maximum daily disturbance area (actively graded area) shall not exceed 10 acres per day.
- Construction contractors shall utilize construction equipment, with properly operating and maintained mufflers, consistent with manufacturers’ standards.
- The surrounding streets shall be swept on a regular basis to remove any construction related debris and dirt.
- Appropriate dust control measures that meet the SCAQMD standards shall be implemented for grading and construction activity.
- Construction Contractors shall prohibit truck drivers from idling more than five (5) minutes and require operators to turn off engines when not in use, in compliance with the California Air Resources Board regulations.

Project contractors shall be required to ensure compliance with these requirements and permit periodic inspection of the construction site by County of Riverside staff or its designee to confirm compliance. These requirements also shall be specified in bid documents issued to prospective construction contractors.

#### **MM AQ-3**

Prior to issuance of building permits for Tenant Improvements involving cold storage warehouse uses, Riverside County shall review the plans to ensure that electrical hookups are provided to eliminate idling of main and auxiliary engines during the loading and unloading process and provide for transport refrigeration units. Riverside County shall verify the installation of electrical hookups prior to final building inspection.

#### **MM AQ-4**

The minimum number of automobile electric vehicle (EV) charging stations required by the California Code of Regulations Title 24 shall be provided. In addition, and to facilitate the possible

future installation of infrastructure that would charge the batteries that power the motors of electric-powered trucks, the following shall be installed.

- At Shell building permit, an electrical room(s) and/or exterior area(s) of the site shall be designated where future electrical panels would be located for the purpose of supplying power to on-site charging facilities for electric powered trucks. Conduit shall be installed from this designated area where the panel would be located to the on-site location where the charging facilities would be located where electric-powered trucks would park and connect to charging facilities to charge the batteries that power the motors of the electric-powered trucks.
- At issuance of a building permit for Tenant Improvements, if the tenant is served by electric trucks, the electrical panel and charging units shall be installed, and the electrical wiring connections shall be made from the electrical panel to the charging units. If the tenant is not served by electric trucks, this requirement shall not apply.

#### **MM AQ-5**

All on-site outdoor cargo handling equipment (including yard trucks, hostlers, yard goats, pallet jacks, forklifts, and other on-site equipment) shall be required to be powered by electricity, compressed natural gas, propane, or diesel-fueled engines that comply with the CARB/USEPA Tier IV Engine standards for off-road vehicles or better (defined as emitting less than or equal to 0.015 grams per brake horsepower-hour [g/bhp-hr] for PM<sub>10</sub>) and all indoor cargo handling equipment shall be required to be powered by electricity, compressed natural gas, or propane. Use of indoor diesel-fueled equipment shall be prohibited. Developer and all successors also shall include these obligations in all building leases. The building owner and occupant shall allow periodic inspection of the site by the County of Riverside or its designee to confirm compliance. Electrical panels should be appropriately sized to allow for future expanded use.

#### **MM AQ-6**

In order to promote alternative fuels, and help support “clean” truck fleets, a part of future lease agreements the developer/successor-in-interest shall be required to provide building occupants with information related to SCAQMD’s Carl Moyer Program, or other such programs that promote truck retrofits or “clean” vehicles and information including, but not limited to, the health effect of diesel particulates, benefits of reduced idling time, CARB regulations, and importance of not parking in residential areas. Tenants shall be notified about the availability of: 1) alternatively fueled cargo handling equipment; 2) grant programs for diesel-fueled vehicle engine retrofit and/or replacement; 3) designated truck parking locations in the project vicinity; 4) access to alternative fueling stations proximate to the site that supply compressed natural gas; and 5) the United States Environmental Protection Agency’s SmartWay program.

#### **MM AQ-7**

All future operations on site shall adhere to the germane policy provisions in the Riverside County Board of Supervisors Policy F-3 (“Good Neighbor Policy” for Logistics and Warehouse/Distribution Uses). Applicable requirements of Policy F-3 shall be specified in future lease agreements with all future tenants, and future tenants shall be required to permit periodic inspection by Riverside

County to ensure compliance. In addition, buildings smaller than 250,000 square feet shall comply with applicable policy provisions of the Good Neighbor Policy except as indicated below. Applicable feasible provisions of the Good Neighbor Policy that would serve to measurably reduce Project-related operational emissions include, but are not limited to, the following:

- Warehouse/distribution facilities greater than 250,000 square feet shall be designed to provide adequate on-site parking for commercial trucks and passenger vehicles and on-site queuing for trucks that is away from sensitive receptors. The general queuing and spillover of trucks onto surrounding public streets shall be prevented. Commercial trucks shall not be parked in the public road right-of-way or nearby residential areas.
- Facility operators shall maintain records of their fleet equipment and ensure that all diesel-fueled Medium-Heavy Duty Trucks (MHDT) and Heavy-Heavy Duty Trucks (HHDT) accessing the site use year CARB 2010 or newer engines. The records shall be maintained on-site and be made available for inspection by the County.
- Legible, durable, weather-proof signs shall be placed at truck access gates, loading docks, and truck parking areas that identify applicable California Air Resources Board (CARB) anti-idling regulations. At a minimum each sign shall include: 1) instructions for truck drivers to shut off engines when not in use; 2) instructions for drivers of diesel trucks to restrict idling to no more than five minutes; and 3) telephone numbers of the building facilities manager and CARB to report violations.
- Facility operators shall train their managers and employees on efficient scheduling and load management to eliminate unnecessary queuing and idling of trucks.
- Signs shall be posted in the appropriate locations and/or handouts should be provided that show the locations of nearest food options, fueling, truck maintenance services, and other similar convenience services.
- Each Facility shall designate a Compliance Officer responsible for implementing the measures described herein and/or in the project conditions of approval and mitigation measures. Contact information shall be provided to the County and updated annually, and signs shall be posted in visible locations providing the contact information for the Compliance Officer to the surrounding community.
- The future applicants for any new facility larger than 250,000 square feet shall be required to enter into agreement with the County of Riverside to provide a supplemental funding contribution, which would be applied to further off set potential air quality impacts to the community and provide a community benefit. Said financial contribution will be determined by the Transportation and Land Management Agency based on the level of NO<sub>x</sub> emissions estimated to generated. Said supplemental funding contribution will be collected on a one-time basis. Funds collected under said supplemental funding program will be subject to designation for use by the Board of Supervisors and will generally be used for projects that directly benefit the impacted community wherein the project is located. The types of projects that the Board of Supervisors may designate for use of these funds include, but are not limited to (1) projects that directly offset NO<sub>x</sub> reductions above and beyond what is required by existing air quality regulations, (2) projects that generally

improve air quality such as paving of dirt roads, installation of additional trees and landscaping, (3) projects that provide an enhanced buffer between the new facility and sensitive receptors, and (4) Projects that lead to reduced emissions by promoting alternate forms of transportation such as bicycle lanes, new sidewalks, bus turnouts, or other transit-related uses.

**MM GHG-1**

All future projects proposed within the Specific Plan shall comply with CAP Update Measure R2-CE1, which requires that all future plot plans proposed within the Specific Plan that include more than 100,000 gross square feet of commercial, office, industrial, or manufacturing development shall provide onsite renewable energy production generation comprising at least 20 percent of the Project energy demand. The County shall verify implementation of CAP Update Measure R2-CE1 within the Project building plans and site designs prior to the issuance of building permit(s) and/or site plans (as applicable). The County shall verify implementation of CAP Update Measure R2-CE1 prior to the issuance of Certificate(s) of Occupancy.

**MM GHG-2**

Pursuant to MM GHG-2, the Project final plans and designs would conform to provisions of the CAP Update through implementation of the Screening Table Measures. Measures that are applicable to Project energy usage are listed at Table ES-2.

**TABLE ES-2: CAP UPDATE CONSISTENCY – INDUSTRIAL AND COMMERCIAL LAND USE**

Feature	Description
EE10.A.1 Insulation	Enhanced Insulation (rigid wall insulation R-13, roof/attic R-38)
EE10.A.2 Windows	Greatly Enhanced Window Insulation (0.28 or less U-factor, 0.22 or less Solar Heat Gain Coefficient [SHGC])
EE10.A.3 Cool Roofs	Modest Cool Roof (Cool Roof Rating Council [CRRC] Rated 0.15 aged solar reflectance, 0.75 thermal emittance)
EE10.A.4 Air Infiltration	Blower Door Home Energy Rating System (HERS) Verified Envelope Leakage of equivalent
EE10.B.1 Heating/Cooling Distribution System	Model Duct Insulation (R-6)
EE10.B.2 Space Heating/Cooling Equipment	Improved Efficiency Heating, Ventilation, and Air Conditioning (HVAC) (Energy Efficiency Ratio [EER] 14/78% Annual Fuel Utilization Efficiency [AFUE] or 8 Heating Seasonal Performance Factor [HSPF])
EE10B.4 Water Heaters	High Efficiency Water Heater (0.72 Energy Factor)
EE10.B.5 Daylighting	All rooms daylighted
EE10.B.6 Artificial Lighting	High Efficiency Lights (50% of in-unit fixtures are high efficiency)
W2.E.2 Toilets	Water Efficient Toilets/Urinals (1.5 gallons per minute [gpm])
W2.E.3 Faucets	Water Efficient faucets (1.2 gpm)
T4.B.1 Electric Vehicle (EV) Recharging	Install EV charging stations in garages/parking areas

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# 1 INTRODUCTION

This report presents the results of the energy analysis prepared by Urban Crossroads, Inc., for the proposed Stoneridge Commerce Center Specific Plan (SP No. 239, A1) (Project). The purpose of this report is to ensure that the energy implications are considered by the County of Riverside, as the lead agency, and to quantify anticipated energy usage associated with construction and operation of the proposed Project, determine if the usage amounts are efficient, typical, or wasteful for the land use type, and to emphasize avoiding or reducing inefficient, wasteful, and unnecessary consumption of energy.

## 1.1 SITE LOCATION

The proposed Stoneridge Commerce Center Specific Plan (SP No. 239, A1) is located on a 582.6-acre site west of Lakeview Avenue between Ramona Expressway and Nuevo Road in the County of Riverside. The project site and the surrounding area are vacant, though they have been historically used for agricultural and wildfire management purposes.

## 1.2 PROJECT DESCRIPTION

The Project is proposing to amend the Specific Plan to create a commerce center on the Project site. The Proposed Project Land Use will develop light industrial, business park, commercial, and commercial retail uses, with the rest of the project site designated as conservation or open space uses. The Alternative Project Land Use will develop the same land uses and will additionally construct the “Mid-County Parkway”, a transportation facility that will be located in the northwest section of the project. To summarize, the developed land uses are as follows:

- Without MCP or Proposed Project Land Use: 8,476,776 square feet of light industrial uses, 1,069,398 square feet of business park uses, and 121,968 square feet of commercial retail uses as shown on Exhibit 1-A.
- With MCP or Alternative Project Land Use: 8,476,776 square feet of light industrial uses, 936,540 square feet of business park uses, 126,542 square feet of commercial retail uses as shown on Exhibit 1-B.

For the purpose of this energy analysis, the Proposed Project Land Use and Alternative Project Land Use will be quantified separately but analyzed for CEQA compliance together.

EXHIBIT 1-A: PROPOSED PROJECT LAND USE PLAN

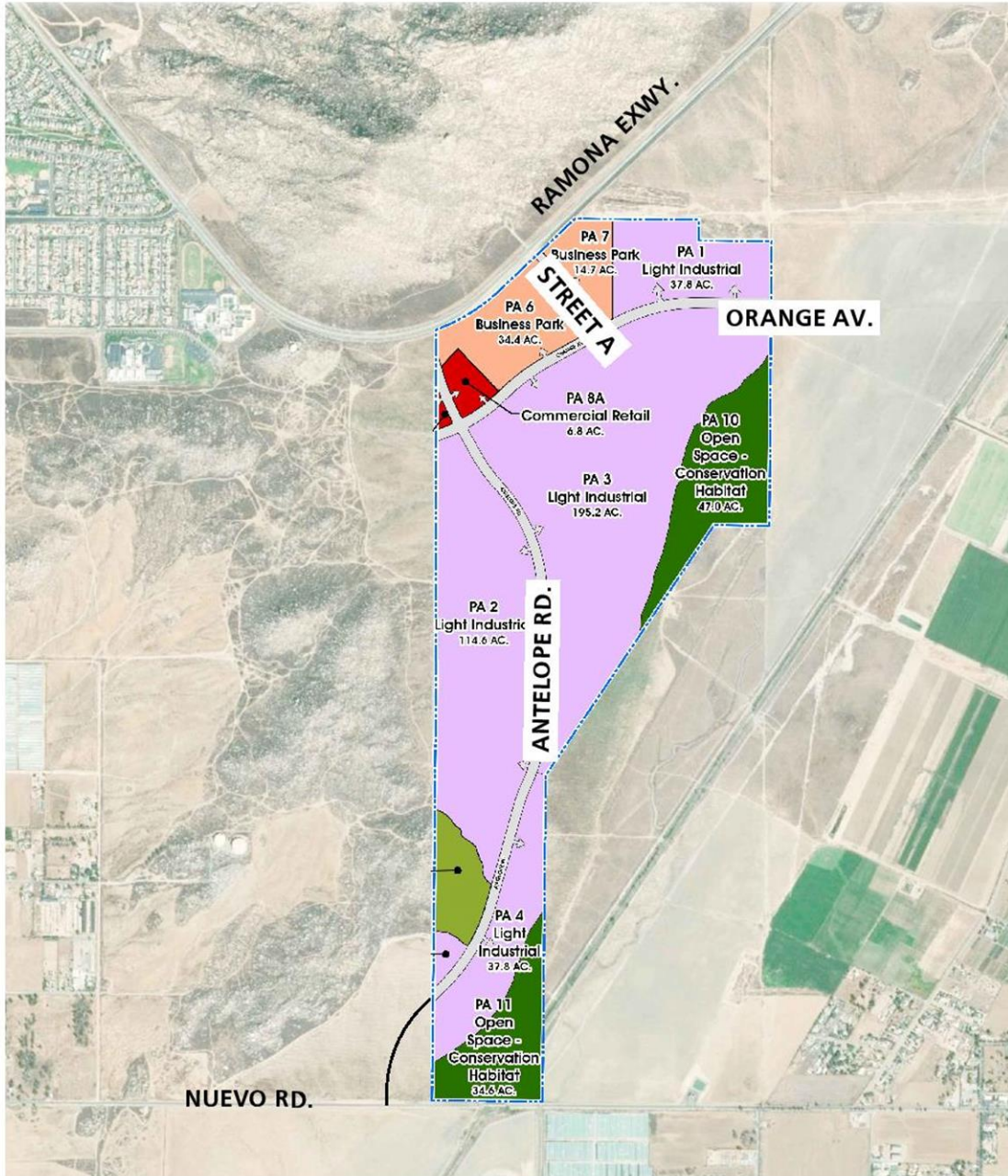
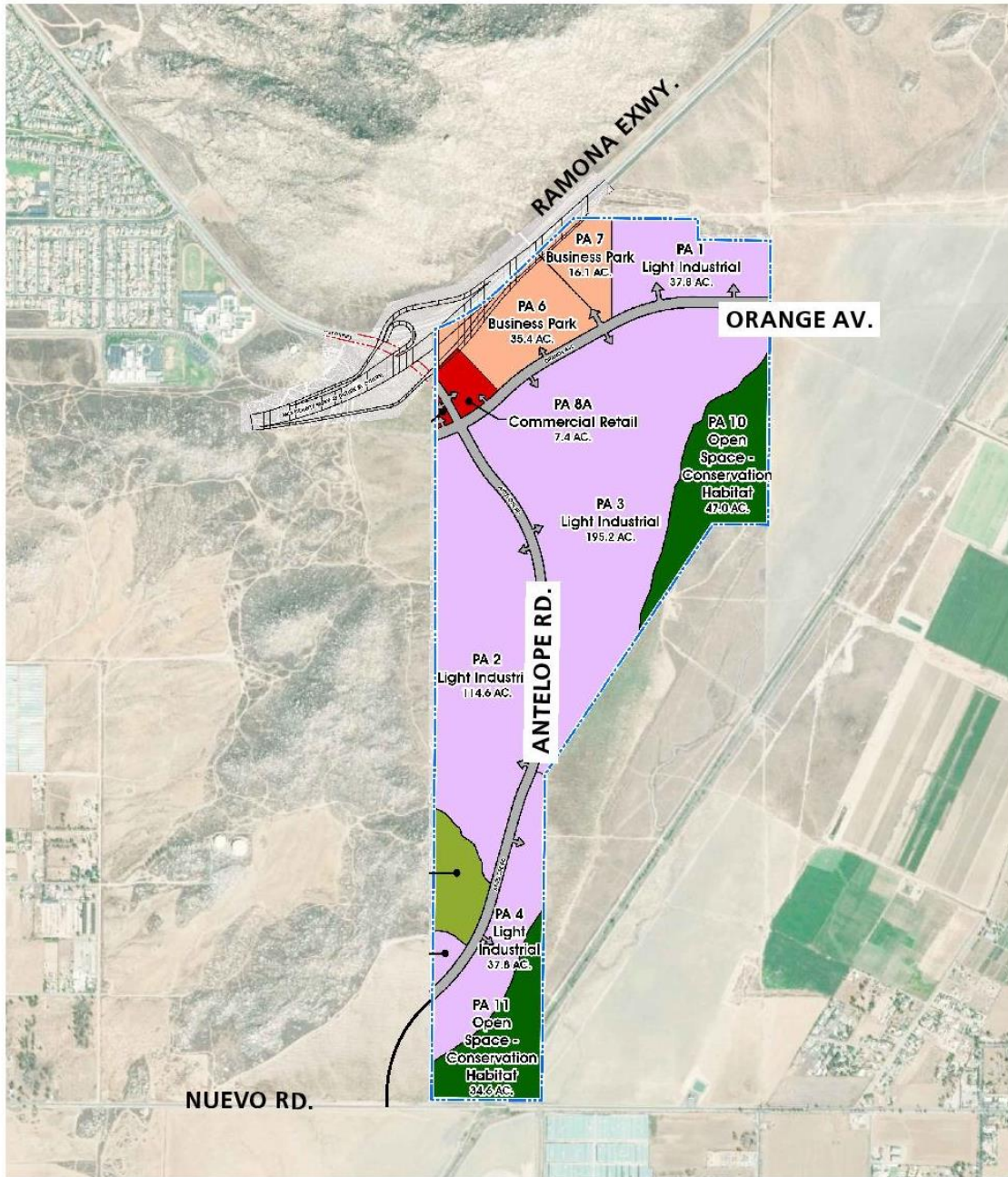




EXHIBIT 1-B: ALTERNATIVE PROJECT LAND USE PLAN



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## 2 EXISTING CONDITIONS

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

### 2.1 OVERVIEW

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

- Approximately 7,881 trillion British Thermal Unit (BTU) of energy was consumed;
- Approximately 683 million barrels of petroleum;
- Approximately 2,137 billion cubic feet of natural gas;
- Approximately 1 million short tons of coal (2)

The California Energy Commission's (CEC) Transportation Energy Demand Forecast 2018-2030 was released in order to support the 2017 Integrated Energy Policy Report.<sup>1</sup> The Transportation energy Demand Forecast 2018-2030 lays out graphs and data supporting their projections of California's future transportation energy demand. The projected inputs consider expected variable changes in fuel prices, income, population, and other variables. Predictions regarding fuel demand include:

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

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

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

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

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<sup>1</sup> The 2019 IEPR's information on transportation demand focused on fleet mix.

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

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

Source: [https://www.energy.ca.gov/almanac/electricity\\_data/total\\_system\\_power.html](https://www.energy.ca.gov/almanac/electricity_data/total_system_power.html)

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

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

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

## 2.2 ELECTRICITY

The Southern California region's electricity reliability has been of concern for the past several years due to the planned retirement of aging facilities that depend upon once-through cooling technologies, as well as the June 2013 retirement of the San Onofre Nuclear Generating Station. While the once-through cooling phase-out has been ongoing since the May 2010 adoption of the State Water Resources Control Board's once-through cooling policy, the retirement of San Onofre complicated the situation. California ISO studies had revealed the extent to which the South Coast Air Basin (SCAB) region was vulnerable to low-voltage and post-transient voltage instability concerns. A preliminary plan to address these issues was detailed in the 2013 Integrative Energy Policy Report (2013 IEPR) after a collaborative process with other energy agencies, utilities, and air districts (10). If the resource development outlined in the preliminary plan continues as detailed, reliability in Southern California would likely be assured; however, tight resource margins have led energy agencies and the ARB to develop a contingency plan. This contingency plan was discussed at a public workshop in Los Angeles on August 20, 2014 and is detailed within this Section (11). Similarly, the 2019 and 2019 IEPR's identify broad strategies that are aimed at maintaining electricity system reliability.

California's electricity industry is an organization of traditional utilities, private generating companies, and state agencies, each with a variety of roles and responsibilities to ensure that electrical power is provided to consumers. The California Independent Service Operator (ISO) is a nonprofit public benefit corporation and is the impartial operator of the State's wholesale power grid and is charged with maintaining grid reliability, and to direct uninterrupted electrical energy supplies to California's homes and communities. While utilities still own transmission assets, the ISO routes electrical power along these assets, maximizing the use of the transmission system and its power generation resources. The ISO matches buyers and sellers of electricity to ensure that sufficient power is available to meet demand. To these ends, every five minutes the ISO forecasts electrical demands, accounts for operating reserves, and assigns the lowest cost power plant unit to meet demands while ensuring adequate system transmission capacities and capabilities (12).

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

Electricity is provided to the Project by SCE. SCE derives electricity from varied sources including natural gas, coal, nuclear, biomass, geothermal, solar, wind, and hydroelectric. Table 2-2 identifies SCE’s specific proportional shares of electricity sources in 2018. As indicated in Table 2-2, the 2018 SCE Power Mix lists renewable energy as 36% of the overall energy resources (13). Power content mixes are generally released in July each year, though 2019 data is not available at this time.

**TABLE 2-2: SCE 2018 POWER CONTENT MIX**

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

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

## 2.3 NATURAL GAS

The following summary of natural gas resources and service providers, delivery systems, and associated regulation is excerpted from information provided by the California Public Utilities Commission (CPUC).

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

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

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

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

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

*SDG&E and Southwest Gas' southern division are wholesale customers of SoCalGas, and currently receive all of their natural gas from the SoCalGas system (Southwest Gas also provides natural gas distribution service in the Lake Tahoe area). Some other municipal wholesale customers are the cities of Palo Alto, Long Beach, and Vernon, which are not regulated by the CPUC.*

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

*RPU and SoCalGas own and operate several natural gas storage fields that are located in northern and southern California. These storage fields, and four independently owned storage utilities – Lodi Gas Storage, Wild Goose Storage, Central Valley Storage, and Gill*

*Ranch Storage – help meet peak seasonal natural gas demand and allow California natural gas customers to secure natural gas supplies more efficiently.*

*California’s regulated utilities do not own any natural gas production facilities. All of the natural gas sold by these utilities must be purchased from suppliers and/or marketers. The price of natural gas sold by suppliers and marketers was deregulated by the FERC in the mid-1980’s and is determined by “market forces.” However, the CPUC decides whether California’s utilities have taken reasonable steps in order to minimize the cost of natural gas purchased on behalf of their core customers.” (14)*

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

## **2.4 TRANSPORTATION ENERGY RESOURCES**

The Project would generate additional vehicle trips with resulting consumption of energy resources, predominantly gasoline and diesel fuel. In March 2019, the Department of Motor Vehicles (DMV) identified 36.4 million registered vehicles in California (15), and those vehicles consume an estimated 17.8 billion gallons of fuel each year<sup>2</sup>. Gasoline (and other vehicle fuels) are commercially provided commodities and would be available to the Project patrons and employees via commercial outlets.

California’s on-road transportation system includes 394,383 land miles, more than 27.5 million passenger vehicles and light trucks, and almost 8.1 million medium- and heavy-duty vehicles (15). While gasoline consumption has been declining since 2008 it is still by far the dominant fuel. Petroleum comprises about 91% of all transportation energy use, excluding fuel consumed for aviation and most marine vessels (16). Nearly 17.8 billion gallons of on-highway fuel are burned each year, including 14.6 billion gallons of gasoline (including ethanol) and 3.2 billion gallons of diesel fuel (including biodiesel and renewable diesel). In 2019, Californians also used 194 million cubic feet of natural gas as a transportation fuel (17), or the equivalent of 183 billion gallons of gasoline.

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<sup>2</sup> Fuel consumptions estimated utilizing information from EMFAC2017.



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### **3 REGULATORY BACKGROUND**

Federal and state agencies regulate energy use and consumption through various means and programs. On the federal level, the United States Department of Transportation, the United States Department of Energy, and the United States Environmental Protection Agency are three federal agencies with substantial influence over energy policies and programs. On the state level, the CPUC and the California Energy Commission (CEC) are two agencies with authority over different aspects of energy. Relevant federal and state energy-related laws and plans are summarized below.

#### **3.1 FEDERAL REGULATIONS**

##### **3.1.1 INTERMODAL SURFACE TRANSPORTATION EFFICIENCY ACT OF 1991 (ISTEA)**

The Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) promoted the development of inter-modal transportation systems to maximize mobility as well as address national and local interests in air quality and energy. ISTEA contained factors that Metropolitan Planning Organizations (MPOs) were to address in developing transportation plans and programs, including some energy-related factors. To meet the new ISTEA requirements, MPOs adopted explicit policies defining the social, economic, energy, and environmental values guiding transportation decisions.

##### **3.1.2 THE TRANSPORTATION EQUITY ACT FOR THE 21<sup>ST</sup> CENTURY (TEA-21)**

The Transportation Equity Act for the 21st Century (TEA-21) was signed into law in 1998 and builds upon the initiatives established in the ISTEA legislation, discussed above. TEA-21 authorizes highway, highway safety, transit, and other efficient surface transportation programs. TEA-21 continues the program structure established for highways and transit under ISTEA, such as flexibility in the use of funds, emphasis on measures to improve the environment, and focus on a strong planning process as the foundation of good transportation decisions. TEA-21 also provides for investment in research and its application to maximize the performance of the transportation system through, for example, deployment of Intelligent Transportation Systems, to help improve operations and management of transportation systems and vehicle safety.

#### **3.2 CALIFORNIA REGULATIONS**

##### **3.2.1 INTEGRATED ENERGY POLICY REPORT**

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

The 2019 IEPR was adopted January 31, 2020, and continues to work towards improving electricity, natural gas, and transportation fuel energy use in California. The 2019 IEPR focuses on a variety of topics such as including the environmental performance of the electricity generation system, landscape-scale planning, the response to the gas leak at the Aliso Canyon natural gas storage facility, transportation fuel supply reliability issues, updates on Southern California electricity reliability, methane leakage, climate adaptation activities for the energy sector, climate and sea level rise scenarios, and the California Energy Demand Forecast. (18) The 2020 IEPR Update is currently in progress but is not anticipated to be adopted until February 2021. (19).

### **3.2.2 ENERGY ACTION PLAN**

The CEC and CPUC is responsible for preparing the Energy Action Plan, which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and the maintenance of a healthy economy. The Plan calls for the state to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies a number of strategies, including assistance to public agencies and fleet operators and encouragement of urban designs that reduce Vehicle Miles Traveled (VMT) and accommodate pedestrian and bicycle access.

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

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

### **3.2.4 CALIFORNIA'S RENEWABLE PORTFOLIO STANDARD (RPS).**

Under the existing RPS, 25% of retail sales are required to be from renewable sources by December 31, 2016, 33% by December 31, 2020, 40% by December 31, 2024, 45% by December 31, 2027, and 50% by December 31, 2030. SB 100 raises California's RPS requirement to 50% renewable resources target by December 31, 2026, and to achieve a 60% target by December 31,

2030. SB 100 also 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% of retail sales by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030. In addition to targets under AB 32 and SB 32, Executive Order B-55-18 establishes a carbon neutrality goal for the state of California by 2045; and sets a goal to maintain net negative emissions thereafter. The Executive Order directs the California Natural Resources Agency (CNRA), California Environmental Protection Agency (CalEPA), the Department of Food and Agriculture (CDFA), and CARB to include sequestration targets in the Natural and Working Lands Climate Change Implementation Plan consistent with the carbon neutrality goal.

### **3.2.5 AB 1493 PAVLEY REGULATIONS AND FUEL EFFICIENCY STANDARDS**

California AB 1493, enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Under this legislation, CARB adopted regulations to reduce GHG emissions from non-commercial passenger vehicles (cars and light-duty trucks). Although aimed at reducing GHG emissions, specifically, a co-benefit of the Pavley standards is an improvement in fuel efficiency and consequently a reduction in fuel consumption.

### **3.2.6 SB 350— CLEAN ENERGY AND POLLUTION REDUCTION ACT OF 2015.**

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

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

### **3.2.7 COUNTY OF RIVERSIDE CLIMATE ACTION PLAN**

The County of Riverside CAP (December 8, 2015) was designed under the premise that the County of Riverside, and the community it represents, is uniquely capable of addressing emissions associated with sources under Riverside County's jurisdiction, and that Riverside County's emission reduction efforts should coordinate with the state strategies of reducing emissions in order to accomplish these reductions in an efficient and cost-effective manner. The Project would implement the following energy-saving features and operational programs, consistent with the reduction measures set forth in the County of Riverside CAP, these measures would serve to generally reduce energy demand associated with the Project.

**MM GHG-1**

All future projects proposed within the Specific Plan shall comply with CAP Update Measure R2-CE1, which requires that all future plot plans proposed within the Specific Plan that include more than 100,000 gross square feet of commercial, office, industrial, or manufacturing development shall provide onsite renewable energy production generation comprising at least 20 percent of the Project energy demand. The County shall verify implementation of CAP Update Measure R2-CE1 within the Project building plans and site designs prior to the issuance of building permit(s) and/or site plans (as applicable). The County shall verify implementation of CAP Update Measure R2-CE1 prior to the issuance of Certificate(s) of Occupancy.

**MM GHG-2**

Pursuant to MM GHG-2, the Project final plans and designs would conform to provisions of the CAP Update through implementation of the Screening Table Measures. Measures that are applicable to Project energy usage are listed at Table 3-1.

**TABLE 3-1: CAP UPDATE CONSISTENCY – INDUSTRIAL AND COMMERCIAL LAND USE**

Feature	Description
EE10.A.1 Insulation	Enhanced Insulation (rigid wall insulation R-13, roof/attic R-38)
EE10.A.2 Windows	Greatly Enhanced Window Insulation (0.28 or less U-factor, 0.22 or less Solar Heat Gain Coefficient [SHGC])
EE10.A.3 Cool Roofs	Modest Cool Roof (Cool Roof Rating Council [CRRC] Rated 0.15 aged solar reflectance, 0.75 thermal emittance)
EE10.A.4 Air Infiltration	Blower Door Home Energy Rating System (HERS) Verified Envelope Leakage of equivalent
EE10.B.1 Heating/Cooling Distribution System	Model Duct Insulation (R-6)
EE10.B.2 Space Heating/Cooling Equipment	Improved Efficiency Heating, Ventilation, and Air Conditioning (HVAC) (Energy Efficiency Ratio [EER] 14/78% Annual Fuel Utilization Efficiency [AFUE] or 8 Heating Seasonal Performance Factor [HSPF])
EE10B.4 Water Heaters	High Efficiency Water Heater (0.72 Energy Factor)
EE10.B.5 Daylighting	All rooms daylighted
EE10.B.6 Artificial Lighting	High Efficiency Lights (50% of in-unit fixtures are high efficiency)
W2.E.2 Toilets	Water Efficient Toilets/Urinals (1.5 gallons per minute [gpm])

Feature	Description
W2.E.3 Faucets	Water Efficient faucets (1.2 gpm)
T4.B.1 Electric Vehicle (EV) Recharging	Install EV charging stations in garages/parking areas

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## 4 METHODOLOGY

### 4.1 EVALUATION CRITERIA

In compliance with Appendix G of the *State CEQA Guidelines* (1), this report analyzes the project's anticipated energy use to determine if the Project in either its Primary or Alternative Land Use Plans would:

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

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

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

### 4.2 PROJECT INFORMATION

Information from the CalEEMod 2016.3.2 outputs for the *Stoneridge Commerce Center Specific Plan (SP No. 239, A1) Air Quality & Greenhouse Gas Assessment* (ECORP Consulting) (AQIA) was utilized in this analysis, detailing Project related construction equipment, transportation energy demands, and facility energy demands (22) for both land use plan.

### 4.3 CALIFORNIA EMISSIONS ESTIMATOR MODEL

On October 17, 2017, the SCAQMD, in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the California Emissions Estimator Model (CalEEMod) v2016.3.2. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>) and GHG emissions from direct and indirect sources as well as energy usage. (23). Accordingly, the latest version of CalEEMod has been used to determine the proposed Project's anticipated transportation and facility energy demands. Output from the model runs for construction and operational activity for the Primary and Alternative Land Use Plans are provided in Appendices 5.1 and 6.1.

### 4.4 EMISSION FACTORS MODEL

On August 19, 2019, the EPA approved the 2017 version of the Emission Factor model (EMFAC) web database for use in State Implementation Plan and transportation conformity analyses. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, and VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-



road mobile sources (24). This study utilizes summer, winter, and annual EMFAC2017 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season.

## 5 PRIMARY LAND USE PROJECT ENERGY DEMANDS

### 5.1 LAND USES

The Project is located on 582.6 acres. As stated in the Project description, the Primary Land Use scenario is expected to consist of 8,476,776 square feet of light industrial uses, 1,069,398 square feet of business park uses, and 121,968 square feet of commercial retail uses.

#### 5.1.1 LAND USES MODELED IN CALEEMOD

CalEEMod does not provide an extensive selection of land use subtype categories; land uses that most closely fit the Project will be utilized (25). For purposes of analysis, the following land uses were modeled consistent with information provided by the Project applicant:

- 2,966,871 sf of Unrefrigerated Warehouse- No Rail
- 2,966,871 of Unrefrigerated Warehouse- No Rail<sup>3</sup>
- 427,759 sf of Unrefrigerated Warehouse- No Rail<sup>4</sup>
- 1,695,355 sf of Refrigerated Warehouse- No Rail
- 641,638 sf of Industrial Park
- 847,677 sf of Manufacturing
- 21,968 sf of Strip Mall
- 1,624,788 sf of Other Asphalt Surfaces
- 1,367,784 sf of Other Non-Asphalt Surfaces
- 100,000 sf of Free-Standing Discount Superstore

### 5.2 CONSTRUCTION

#### 5.2.1 CONSTRUCTION ACTIVITIES

Construction related energy usage is expected from the following construction activities:

- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

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<sup>3</sup> This is a separate building with an equivalent area to the first building listed

<sup>4</sup> This represents a third building of equivalent land use

### Construction Vehicle Trips

Construction worker vehicles traveling to and from the Project site, as well as vendor trips (construction materials delivered to the Project site) were estimated based on information from CalEEMod defaults. The number of worker, vendor, and hauling trips are presented below in Table 5-1.

**TABLE 5-1 CONSTRUCTION TRIP ASSUMPTIONS**

Phase Name	Trips			Trip Length		
	Worker (Trips/Day)	Vendor (Trips/Day)	Hauling (Total)	Worker	Vendor	Hauling
Site Preparation	35	0	0	14.7	6.9	20
Grading	40	0	0	14.7	6.9	20
Building Construction	257	180	14	14.7	6.9	20
Paving	30	0	0	14.7	6.9	20
Architectural Coating	30	0	0	14.7	6.9	20

<sup>1</sup> CalEEMod does not distinguish different trip lengths for import and export activities. As such, a weighted trip length is used for hauling trips.

### 5.2.2 CONSTRUCTION DURATION

Construction is expected to commence in July 2021 and will last through November 2029 as shown in Table 5-2. The duration of construction activity represents a reasonable approximation as required per *CEQA Guidelines*. The duration of construction activity was based on information provided by the Project applicant. The Project is anticipated to be fully built and occupied in 2030.

**TABLE 5-2: CONSTRUCTION DURATION**

Phase Name	Start Date	End Date	Days
Site Preparation	7/1/2021	3/9/2022	180
Grading	3/10/2022	12/20/2023	465
Building Construction	3/22/2024	11/13/2029	1473
Paving	3/22/2024	11/13/2029	1473
Architectural Coating	3/22/2024	11/13/2029	1473

Source: Construction activity based upon information provided by the Project applicant.

### 5.2.3 CONSTRUCTION EQUIPMENT

Site specific construction fleet may vary due to specific project needs at the time of construction. The associated construction equipment by phase is detailed in Table 5-3. The associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* and was provided by the Project applicant.

**TABLE 5-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS**

Phase Name	Equipment	Amount	Hours Per Day
Site Preparation	Tractors/Loaders/Backhoes	8	8
	Rubber Tired Dozers	6	8
Grading	Excavators	4	8
	Graders	2	8
	Rubber Tired Dozers	2	8
	Scrapers	4	8
	Tractors/Loaders/Backhoes	4	8
Building Construction	Cranes	2	7
	Forklifts	6	8
	Generator Sets	2	8
	Tractors/Loaders/Backhoes	6	7
	Welders	2	8
Paving	Pavers	4	8
	Paving Equipment	4	8
	Rollers	4	8
Architectural Coating	Air Compressors	2	6

Source: CalEEMod model output, See Appendices 5.1 and 6.1 for detailed model outputs. Engine ratings were based on CalEEMod default parameters.

### 5.3 CONSTRUCTION ENERGY DEMANDS

#### 5.3.1 CONSTRUCTION EQUIPMENT ELECTRICITY USAGE ESTIMATES

The focus within this section is the energy implications of the construction process, specifically the power cost from on-site electricity consumption during construction of the proposed Project. Based on the 2019 National Construction Estimator, Richard Pray (2019) (26), the typical power cost per 1,000 square feet (sf) of building construction per month is estimated to be \$2.38. For the Stoneridge Commerce Center Specific Plan (SP No. 239, A1) development, the Project plans consist of various light industrial, business park, and commercial uses as specified in section 5.1.1 which will be constructed within a 100-month period. Based on Table 5-4, the total power cost of the on-site electricity usage during the construction of the proposed Project is estimated to be approximately \$2,687,718.77. Additionally, as of April 13, 2020, SCE’s general service rate schedule for is \$0.09 per kWh of electricity. (27). As shown on Table 5-5, the total electricity usage from on-site Project construction related activities are estimated to be approximately 29,863,542 kWh.

**TABLE 5-4: PRIMARY LAND USE PROJECT CONSTRUCTION POWER COST**

Land Use	Power Cost (per 1,000 sf of building per month of construction)	Total Building Size (1,000 sf)	Construction Duration (months)	Project Construction Power Cost
Industrial Park	\$2.38	641.64	100	\$152,710.32
Manufacturing	\$2.38	847.68	100	\$201,747.84
Refrigerated Warehouse-No Rail	\$2.38	1695.36	100	\$403,495.68
Unrefrigerated Warehouse-No Rail	\$2.38	2966.87	100	\$706,115.06
Unrefrigerated Warehouse-No Rail	\$2.38	2966.87	100	\$706,115.06
Unrefrigerated Warehouse-No Rail	\$2.38	427.76	100	\$101,806.88
Other Asphalt Surfaces	\$2.38	1624.79	100	\$386,699.54
Free-Standing Discount Superstore	\$2.38	100.00	100	\$23,800.00
Strip Mall	\$2.38	21.97	100	\$5,228.38
Other Non-Asphalt Surfaces	\$2.38	1367.78	100	\$325,531.64
<b>TOTAL PROJECT CONSTRUCTION POWER COST</b>				<b>\$3,013,250.41</b>

**TABLE 5-5: PROJECT CONSTRUCTION ELECTRICITY USAGE**

Land Use	Cost per kWh	Project Construction Electricity Usage (kWh)
Industrial Park	\$0.09	1,696,781
Manufacturing	\$0.09	2,241,643
Refrigerated Warehouse-No Rail	\$0.09	4,483,285
Unrefrigerated Warehouse-No Rail	\$0.09	7,845,723
Unrefrigerated Warehouse-No Rail	\$0.09	7,845,723
Unrefrigerated Warehouse-No Rail	\$0.09	1,131,188
Other Asphalt Surfaces	\$0.09	4,296,662
Free-Standing Discount Superstore	\$0.09	264,444
Strip Mall	\$0.09	58,093
Other Non-Asphalt Surfaces	\$0.09	3,617,018
<b>TOTAL PROJECT CONSTRUCTION ELECTRICITY USAGE (kWh)</b>		<b>33,480,560</b>

<sup>1</sup>Assumes the Project will be under the domestic service rate under SCE

### 5.3.2 CONSTRUCTION EQUIPMENT FUEL ESTIMATES

Fuel consumed by construction equipment would be the primary energy resource expended over the course of Project construction. Project construction activity timeline estimates, construction equipment schedules, equipment power ratings, load factors, and associated fuel consumption estimates are presented in Table 5-6. The number of usage hours per day are based on CalEEMod defaults. The aggregate fuel consumption rate for all equipment is estimated at 18.5 hp-hr-gal., obtained from California Air Resources Board (CARB) 2018 Emissions Factors Tables and cited fuel consumption rate factors presented in Table D-24 of the Moyer guidelines (28). For the purposes of this analysis, the calculations are based on all construction equipment being diesel-powered which is standard practice consistent with industry standards. Diesel fuel would be supplied by existing commercial fuel providers serving the County and region.

As presented in Table 5-6, Project construction activities would consume an estimated 1,099,608 gallons of diesel fuel. Project construction would represent a “single-event” diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

**TABLE 5-6: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES**

Phase Name	Equipment	Quantity	Usage Hours	HP Rating	Load Factor	HP-hrs/day	Total Fuel Consumption (gal. diesel fuel)
Site Preparation	Tractors/Loaders/Backhoes	8	8	97	0.37	2,297	22,349
	Rubber Tired Dozers	6	8	247	0.40	4,742	46,142
Grading	Excavators	4	8	158	0.38	1,921	48,292
	Graders	2	8	187	0.41	1,227	30,834
	Rubber Tired Dozers	2	8	247	0.4	1,581	39,734
	Scrapers	4	8	367	0.48	5,637	141,690
	Tractors/Loaders/Backhoes	4	8	97	0.37	1,148	28,867
Building Construction	Cranes	2	7	231	0.29	938	74,674
	Forklifts	6	8	89	0.2	854	68,029
	Generator Sets	2	8	84	0.74	995	79,188
	Tractors/Loaders/Backhoes	6	7	97	0.37	1,507	120,020
	Welders	2	8	46	0.45	331	26,371
Paving	Pavers	4	8	130	0.42	1,747	139,115
	Paving Equipment	4	8	132	0.36	1,521	121,076
	Rollers	4	8	80	0.38	973	77,456
Architectural Coating	Air Compressors	2	6	78	0.48	449	35,772
<b>CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)</b>							<b>1,099,608</b>

### 5.3.3 CONSTRUCTION WORKER FUEL ESTIMATES

It is assumed that all construction worker trips are from light duty autos (LDA) along area roadways. With respect to estimated VMT, the construction worker trips would generate an estimated 7,230,063 VMT (22). Data regarding Project related construction worker trips were based on CalEEMod 2016.3.2 model defaults utilized within the AQIA. Output from the model runs for construction activity are provided in Appendix 5.1.

As previously stated, vehicle fuel efficiencies for LDAs were estimated using information generated within the 2017 version of the EMFAC developed by the CARB. EMFAC2017 was run for the LDA vehicle class within the California sub-area for a 2021 calendar year. While construction will occur in multiple years, vehicles are understood to be less efficient overall in earlier years. As such, calculating fuel use based on 2021 fuel efficiencies presents a more conservative approach than calculating by year. Data from EMFAC2017 is shown in Appendix 5.2.

As generated by EMFAC2017, an aggregated fuel economy of LDAs ranging from model year 1974 to model year 2021 are estimated to have a fuel efficiency of 31.83 miles per gallon (mpg). Table 5-7 provides an estimated annual fuel consumption resulting from the Project generated by LDAs related to construction worker trips. Based on Table 5-7, it is estimated that 227,139 gallons of fuel will be consumed related to construction worker trips during full construction of the proposed Project. Project construction worker trips would represent a “single-event” gasoline fuel demand and would not require on-going or permanent commitment of fuel resources for this purpose.

**TABLE 5-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES**

Phase Name	Worker Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Site Preparation (180 days)	35	14.7	92,610	31.83	2,909
Grading (465 days)	40	14.7	273,420	31.83	8,590
Building Construction (1473 days)	257	14.7	5,564,847	31.83	174,825
Paving (1473 days)	30	14.7	649,593	31.83	20,408
Architectural Coating (1473 days)	30	14.7	649,593	31.83	20,408
<b>TOTAL CONSTRUCTION WORKER FUEL CONSUMPTION</b>					<b>227,139</b>

### 5.3.4 CONSTRUCTION VENDOR/HAULING FUEL ESTIMATES

With respect to estimated VMT, the construction vendor and hauling trips would generate an estimated 1,959,666 VMT along area roadways. It is assumed that 50% of all vendor trips are

from Medium-Heavy-Duty-Trucks (MHDT) and 50% are from Heavy-Heavy-Duty Trucks (HHDT), and 100% of hauling trips are from HHDT. These assumptions are consistent with the 2016.3.2 CalEEMod defaults. Vehicle fuel efficiencies for MHDTs and HHDTs were estimated using information generated within EMFAC2017. For purposes of this analysis, EMFAC2017 was run for the MHDT and HHDT vehicle class within the California sub-area for a 2021 calendar year. As mentioned in section 5.3.3, using fuel data from 2021 presents the most conservative means to conduct the Project analysis. Data from EMFAC2017 is shown in Appendix 5.2.

As generated by EMFAC2017, an aggregated fuel economy of MHDTs ranging from model year 1974 to model year 2021 are estimated to have a fuel efficiency of 10.05 mpg. Additionally, HHDTs are estimated to have a fuel efficiency of 6.89 mpg. Based on Table 5-8, it is estimated that 91,008 gallons of fuel will be consumed related to construction vendor trips (MHDTs) and 132,837 gallons of fuel will be consumed related to construction vendor trips (HHDTs) during full construction of the proposed Project. Project construction vendor trips would represent a “single-event” diesel fuel demands and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

**TABLE 5-8: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (MHDT)**

Phase Name	Vendor/Hauling Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
<b>Vendor</b>					
Building Construction (1473 days)	90	6.9	914,733	10.05	91,008
<b>PROJECT MHDT TOTAL</b>					<b>91,008</b>

**TABLE 5-9: CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION ESTIMATES (HHDT)**

Phase Name	Vendor/Hauling Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy	Estimated Fuel Consumption (gallons)
<b>Vendor</b>					
Building Construction (1473 days)	90	6.9	914,733	6.89	132,837
<b>Hauling</b>					
Grading (465 days)	14	20	130,200	6.89	18,908
<b>PROJECT HHDT TOTAL</b>					<b>151,745</b>

### 5.3.5 CONSTRUCTION ENERGY EFFICIENCY/CONSERVATION MEASURES

The equipment used for Project construction for the Primary Land Use Plan would conform to CARB regulations and California emissions standards. Additionally, consistent with the *Air Quality & Greenhouse Gas Assessment, Stoneridge Commerce Center Specific Plan* prepared by ECORP, the Project would implement the MM AQ-1 and MM AQ-2, would serve to generally reduce energy demand associated with the Project. Specifically, MM AQ-2 requires that the Project



implement several measures under the County of Riverside Board of Supervisors Policy F-3 (Good Neighbor Policy for Logistics and Warehouse/Distribution Uses). These measures would reduce fuel consumption during construction. It should also be noted that there are no unusual Project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities; or equipment that would not conform to current emissions standards (and related fuel efficiencies). Equipment employed in construction of the Project's Primary Land Use Plan would therefore not result in inefficient wasteful, or unnecessary consumption of fuel.

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

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

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

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

In general, the construction processes promote conservation and efficient use of energy by reducing raw materials demands, with related reduction in energy demands associated with raw materials extraction, transportation, processing, and refinement. Use of materials in bulk reduces energy demands associated with preparation and transport of construction materials as well as the transport and disposal of construction waste and solid waste in general, with corollary

reduced demands on area landfill capacities and energy consumed by waste transport and landfill operations.

## 5.4 OPERATIONAL ENERGY DEMANDS

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

### 5.4.1 TRANSPORTATION ENERGY DEMANDS

Energy that would be consumed by the Proposed Project’s Primary Land Use-generated traffic is a function of total VMT and estimated vehicle fuel economies of vehicles accessing the Project site. The following vehicle subcategories included in this analysis are consistent with CalEEMod and EMFAC for a 2030 Opening Year.

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project’s AQIA, the Project would generate an estimated 144,169,525 annual VMT along area roadways for all vehicles with full build-out of the Project (22). Table 5-10 provides an estimated range of annual fuel consumption resulting from Project generated vehicles. Based on Table 5-10, it is estimated that 10,651,780 gallons of fuel will be consumed.

**TABLE 5-10: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (ALL VEHICLES)**

Vehicle Type	Annual VMT	Estimated Annual Fuel Consumption (gallons)
LDA	36,719,150	895,934
LDT1	3,759,182	110,312
LDT2	11,747,443	348,205
MDV	469,898	17,374
LHDT1	4,430,464	273,023
LHDT2	1,208,308	71,622
MHDT	13,636,307	1,142,735
HHDT	63,404,973	7,532,126
OBUS	268,513	34,554
MCY	8,525,287	225,895
<b>TOTAL (ALL VEHICLES)</b>	<b>144,169,525</b>	<b>10,651,780</b>

### 5.4.2 FACILITY ENERGY DEMANDS

Project building operations and Project site maintenance activities would result in the consumption of natural gas and electricity. Natural gas would be supplied to the Project by

SoCalGas; electricity would be supplied to the Project by SCE. Annual natural gas and electricity demands of the Project are summarized in Table 5-11.

**TABLE 5-11: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY**

Natural Gas Demand	kBTU/year
Industrial Park	1,558,540
Manufacturing	23,634,900
Refrigerated Warehouse-No Rail	611,696
Unrefrigerated Warehouse-No Rail	86,098,600
Unrefrigerated Warehouse-No Rail	611,696.00
Free-Standing Discount Superstore	164,400
Strip Mall	36,115
<b>TOTAL PROJECT NATURAL GAS DEMAND</b>	<b>112,715,947</b>
Electricity Demand	kWh/year
Industrial Park	5,517,450
Manufacturing	8,044,460
Refrigerated Warehouse-No Rail	67,190,300
Unrefrigerated Warehouse-No Rail	6,672,490
Unrefrigerated Warehouse-No Rail	962,030
Free-Standing Discount Superstore	1,125,600
Strip Mall	247,272
<b>TOTAL PROJECT ELECTRICITY DEMAND</b>	<b>89,512,330</b>

**5.4.3 OPERATIONAL ENERGY EFFICIENCY/CONSERVATION MEASURES**

Energy efficiency/energy conservation attributes of the Project would be complemented by increasingly stringent state and federal regulatory actions addressing vehicle fuel economies and vehicle emissions standards; and enhanced building/utilities energy efficiencies mandated under California building codes (e.g., Title 24, California Green Building Standards Code). Additionally, consistent with the *Air Quality & Greenhouse Gas Assessment, Stoneridge Commerce Center Specific Plan* prepared by ECORP, the Project would implement the MM AQ-3 through MM AQ-7 and MM GHG-1 and MM GHG-2, would serve to generally reduce energy demand associated with the Project.

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

### Enhanced Vehicle Fuel Efficiencies

Project annual fuel consumption estimates presented previously in Table 5-10 represent likely potential maximums that would occur for the Project. Under subsequent future conditions, average fuel economies of vehicles accessing the Project site can be expected to improve as older, less fuel-efficient vehicles are removed from circulation, and in response to fuel economy and emissions standards imposed on newer vehicles entering the circulation system.

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

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## 6 ALTERNATIVE LAND USE PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES

### 6.1 LAND USES

The Project is located on 582.6 acres. As stated in the Project description, the Alternative Land Use Plan is expected to consist of: 8,476,776 square feet of light industrial uses, 936,540 square feet of business park uses, and 126,542 square feet of commercial retail uses.

#### 6.1.1 LAND USES MODELED IN CALLEEMOD

CalEEMod does not provide an extensive selection of land use subtype categories, land uses that most closely fit the Project will be utilized (25). For purposes of analysis, the following land uses were modeled consistent with information provided by the Project applicant:

- 2,966,870 sf of Unrefrigerated Warehouse- No Rail
- 2,966,870 of Unrefrigerated Warehouse- No Rail<sup>5</sup>
- 374,620 sf of Unrefrigerated Warehouse- No Rail<sup>6</sup>
- 1,695,360 sf of Refrigerated Warehouse- No Rail
- 561,920 sf of Industrial Park
- 847,680 sf of Manufacturing
- 26,540 sf of Strip Mall
- 1,498,464 sf of Other Asphalt Surfaces
- 1,367,784 sf of Other Non-Asphalt Surfaces
- 100,000 sf of Free-Standing Discount Superstore

### 6.2 CONSTRUCTION

#### 6.2.1 CONSTRUCTION ACTIVITIES

Construction related energy usage is expected from the following construction activities:

- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

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<sup>5</sup> This is a separate building with an equivalent area to the first building listed

<sup>6</sup> This represents a third building of equivalent land use

### Construction Vehicle Trips

Construction worker vehicles traveling to and from the Project site, vendor trips (construction materials delivered to the Project site), were estimated based on information from CalEEMod defaults. The number of worker, vendor, and hauling trips are presented below in Table 6-1.

**TABLE 6-1: CONSTRUCTION TRIP ASSUMPTIONS**

Phase Name	Trips			Trip Length		
	Worker (Trips/Day)	Vendor (Trips/Day)	Hauling (Total)	Worker	Vendor	Hauling
Site Preparation	18	0	0	14.7	6.9	20
Grading	20	0	0	14.7	6.9	20
Building Construction	253	178	14	14.7	6.9	20
Paving	15	0	0	14.7	6.9	20
Architectural Coating	15	0	0	14.7	6.9	20

<sup>1</sup> CalEEMod does not distinguish different trip lengths for import and export activities. As such, a weighted trip length is used for hauling trips.

### 6.2.2 CONSTRUCTION DURATION

Construction is expected to commence in July 2021 and will last through November 2029 as shown in Table 6-2. The duration of construction activity represents a reasonable approximation as required per *CEQA Guidelines*. The duration of construction activity was based on information provided by the Project applicant. The Project is anticipated to be fully built and occupied in 2030.

**TABLE 6-2: CONSTRUCTION DURATION**

Phase Name	Start Date	End Date	Days
Site Preparation	7/1/2021	3/9/2022	180
Grading	3/10/2022	12/20/2023	465
Building Construction	3/22/2024	11/13/2029	1473
Paving	3/22/2024	11/13/2029	1473
Architectural Coating	3/22/2024	11/13/2029	1473

Source: Construction activity based upon information provided by the Project applicant.

### 6.2.3 CONSTRUCTION EQUIPMENT

Site specific construction fleet may vary due to specific project needs at the time of construction. The associated construction equipment by phase is detailed in Table 6-3. The associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines*.

**TABLE 6-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS**

Phase Name	Equipment	Amount	Hours Per Day
Site Preparation	Tractors/Loaders/Backhoes	8	8
	Rubber Tired Dozers	6	8
Grading	Excavators	4	8
	Graders	2	8
	Tractors/Loaders/Backhoes	4	8
	Scrapers	4	8
Building Construction	Cranes	2	7
	Forklifts	6	8
	Generator Sets	2	8
	Tractors/Loaders/Backhoes	6	7
	Welders	2	8
Paving	Pavers	4	8
	Paving Equipment	4	8
	Rollers	4	8
Architectural Coating	Air Compressors	2	6

Source: CalEEMod model output, See Appendix 4.1 detailed model outputs. Engine ratings were based on CalEEMod default parameters.

### 6.3 CONSTRUCTION ENERGY DEMANDS

#### 6.3.1 CONSTRUCTION EQUIPMENT ELECTRICITY USAGE ESTIMATES

The focus within this section is the energy implications of the construction process, specifically the power cost from on-site electricity consumption during construction of the proposed Project. Based on the 2019 National Construction Estimator, Richard Pray (2019) (26), the typical power cost per 1,000 square feet (sf) of building construction per month is estimated to be \$2.38. For the Stoneridge Commerce Center Specific Plan (SP No. 239, A1) development, the Project plans consist of various light industrial, business park, and commercial uses as specified in section 6.1.1 which will be constructed within a 100-month period. Based on Table 6-4, the total power cost of the on-site electricity usage during the construction of the proposed Project is estimated to be approximately \$2,627,121.11. Additionally, as of April 13, 2020, SCE’s general service rate schedule for is \$0.09 per kWh of electricity. (27). As shown on Table 6-5, the total electricity usage from on-site Project construction related activities are estimated to be approximately 29,190,235 kWh.



**TABLE 6-4: ALTERNATIVE LAND USE PROJECT CONSTRUCTION POWER COST**

Land Use	Power Cost (per 1,000 sf of building per month of construction)	Total Building Size (1,000 sf)	Construction Duration (months)	Project Construction Power Cost
Industrial Park	\$2.38	561.92	100	\$133,736.96
Manufacturing	\$2.38	847.68	100	\$201,747.84
Refrigerated Warehouse-No Rail	\$2.38	1695.36	100	\$403,495.68
Unrefrigerated Warehouse-No Rail	\$2.38	2966.87	100	\$706,115.06
Unrefrigerated Warehouse-No Rail	\$2.38	2966.87	100	\$706,115.06
Unrefrigerated Warehouse-No Rail	\$2.38	374.62	100	\$89,159.56
Other Asphalt Surfaces	\$2.38	1498.46	100	\$356,634.43
Free-Standing Discount Superstore	\$2.38	100.00	100	\$23,800.00
Strip Mall	\$2.38	26.54	100	\$6,316.52
Other Non-Asphalt Surfaces	\$2.38	1367.78	100	\$325,531.64
<b>TOTAL PROJECT CONSTRUCTION POWER COST</b>				<b>\$2,952,652.75</b>

**TABLE 6-5: PROJECT CONSTRUCTION ELECTRICITY USAGE**

Land Use	Cost per kWh	Project Construction Electricity Usage (kWh)
Industrial Park	\$0.09	1,485,966
Manufacturing	\$0.09	2,241,643
Refrigerated Warehouse-No Rail	\$0.09	4,483,285
Unrefrigerated Warehouse-No Rail	\$0.09	7,845,723
Unrefrigerated Warehouse-No Rail	\$0.09	7,845,723
Unrefrigerated Warehouse-No Rail	\$0.09	990,662
Other Asphalt Surfaces	\$0.09	3,962,605
Free-Standing Discount Superstore	\$0.09	264,444
Strip Mall	\$0.09	70,184
Other Non-Asphalt Surfaces	\$0.09	3,617,018
<b>TOTAL PROJECT CONSTRUCTION ELECTRICITY USAGE (kWh)</b>		<b>32,807,253</b>

<sup>1</sup>Assumes the Project will be under the domestic service rate under SCE

### 6.3.2 CONSTRUCTION EQUIPMENT FUEL ESTIMATES

Fuel consumed by construction equipment would be the primary energy resource expended over the course of Project construction. Project construction activity timeline estimates, construction equipment schedules, equipment power ratings, load factors, and associated fuel consumption estimates are presented in Table 6-6. The number of usage hours per day are based on CalEEMod defaults. The aggregate fuel consumption rate for all equipment is estimated at 18.5 hp-hr-gal., obtained from California Air Resources Board (CARB) 2018 Emissions Factors Tables and cited fuel consumption rate factors presented in Table D-24 of the Moyer guidelines (28). For the purposes of this analysis, the calculations are based on all construction equipment being diesel-powered which is standard practice consistent with industry standards. Diesel fuel would be supplied by existing commercial fuel providers serving the City and region.

As presented in Table 6-6, Project construction activities would consume an estimated 1,099,608 gallons of diesel fuel. Project construction would represent a “single-event” diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

**TABLE 6-6: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES**

Phase Name	Equipment	Quantity	Usage Hours	HP Rating	Load Factor	HP-hrs/day	Total Fuel Consumption (gal. diesel fuel)
Site Preparation	Tractors/Loaders/Backhoes	8	8	97	0.37	2,297	22,349
	Rubber Tired Dozers	6	8	247	0.40	4,742	46,142
Grading	Excavators	4	8	158	0.38	1,921	48,292
	Graders	2	8	187	0.41	1,227	30,834
	Rubber Tired Dozers	2	8	247	0.4	1,581	39,734
	Scrapers	4	8	367	0.48	5,637	141,690
	Tractors/Loaders/Backhoes	4	8	97	0.37	1,148	28,867
Building Construction	Cranes	2	7	231	0.29	938	74,674
	Forklifts	6	8	89	0.2	854	68,029
	Generator Sets	2	8	84	0.74	995	79,188
	Tractors/Loaders/Backhoes	6	7	97	0.37	1,507	120,020
	Welders	2	8	46	0.45	331	26,371
Paving	Pavers	4	8	130	0.42	1,747	139,115
	Paving Equipment	4	8	132	0.36	1,521	121,076
	Rollers	4	8	80	0.38	973	77,456
Architectural Coating	Air Compressors	2	6	78	0.48	449	35,772
<b>CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)</b>							<b>1,099,608</b>

### 6.3.3 CONSTRUCTION WORKER FUEL ESTIMATES

It is assumed that all construction worker trips are from light duty autos (LDA) along area roadways. With respect to estimated VMT, the construction worker trips would generate an estimated 6,312,165 VMT (22). Data regarding Project related construction worker trips were based on CalEEMod 2016.3.2 model defaults utilized within the AQIA. Output from the model runs for construction activity are provided in Appendix 6.1.

As previously stated, vehicle fuel efficiencies for LDAs were estimated using information generated within the 2017 version of the EMFAC developed by the CARB. EMFAC2017 was run for the LDA vehicle class within the California sub-area for a 2021 calendar year. While construction will occur in multiple years, vehicles are understood to be less efficient overall in earlier years. As such, calculating fuel use based on 2021 fuel efficiencies presents a more conservative approach than calculating by year. Data from EMFAC2017 is shown in Appendix 5.2.

As generated by EMFAC2017, an aggregated fuel economy of LDAs ranging from model year 1974 to model year 2021 are estimated to have a fuel efficiency of 31.83 miles per gallon (mpg). Table 5-7 provides an estimated annual fuel consumption resulting from the Project generated by LDAs related to construction worker trips. Based on Table 6-7, it is estimated that 198,302 gallons of fuel will be consumed related to construction worker trips during full construction of the proposed Project. Project construction worker trips would represent a “single-event” gasoline fuel demand and would not require on-going or permanent commitment of fuel resources for this purpose.

**TABLE 6-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES**

Phase Name	Worker Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Site Preparation (180 days)	18	14.7	47,628	31.83	1,496
Grading (465 days)	20	14.7	136,710	31.83	4,295
Building Construction (1473 days)	253	14.7	5,478,234	31.83	172,104
Paving (1473 days)	15	14.7	324,797	31.83	10,204
Architectural Coating (1473 days)	15	14.7	324,797	31.83	10,204
<b>TOTAL CONSTRUCTION WORKER FUEL CONSUMPTION</b>					<b>198,302</b>

### 6.3.4 CONSTRUCTION VENDOR/HAULING ESTIMATES

With respect to estimated VMT, construction vendor trips would generate an estimated 1,809,139 VMT along area roadways. It is assumed that 50% of all vendor trips are from Medium-Heavy-Duty-Trucks (MHDT) and 50% are from Heavy-Heavy-Duty Trucks (HHDT). These assumptions are consistent with the 2016.3.2 CalEEMod defaults. Vehicle fuel efficiencies for

MHDTs and HHDTs were estimated using information generated within EMFAC2017. For purposes of this analysis, EMFAC2017 was run for the MHDT and HHDT vehicle class within the California sub-area for a 2021 calendar year. As stated in section 6.3.3, estimating fuel consumption by using the fuel efficiency of the first year of construction presents the most conservative approach for use in the Project analysis. Data from EMFAC2017 is shown in Appendix 5.2.

As generated by EMFAC2017, an aggregated fuel economy of MHDTs ranging from model year 1974 to model year 2021 are estimated to have a fuel efficiency of 10.05 mpg. Additionally, HHDTs are estimated to have a fuel efficiency of 6.89 mpg. Based on Table 6-8, it is estimated that 89,997 gallons of fuel will be consumed related to construction vendor trips (MHDTs) and 131,361 gallons of fuel will be consumed related to construction vendor trips (HHDTs) during full construction of the proposed Project. Project construction vendor trips would represent a “single-event” diesel fuel demands and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

**TABLE 6-8: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (MHDT)**

Phase Name	Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
<b>Vendor</b>					
Building Construction (1473 days)	89	6.9	904,569	10.05	89,997
<b>PROJECT MHDT TOTAL</b>					<b>89,997</b>

**TABLE 6-9: CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION ESTIMATES (HHDT)**

Phase Name	Vendor/Hauling Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
<b>Vendor</b>					
Building Construction (1473 days)	89	6.9	904,569	6.89	131,361
<b>Hauling</b>					
Grading (465 days)	14	20	130,200	6.89	18,908
<b>PROJECT HHDT TOTAL</b>					<b>150,269</b>

### 6.3.5 CONSTRUCTION ENERGY EFFICIENCY/CONSERVATION MEASURES

The equipment used for Project construction for the Primary Land Use Plan would conform to CARB regulations and California emissions standards. Additionally, consistent with the *Air Quality & Greenhouse Gas Assessment, Stoneridge Commerce Center Specific Plan* prepared by ECORP, the Project would implement the MM AQ-1 and MM AQ-2, would serve to generally reduce energy demand associated with the Project. Specifically, MM AQ-2 requires that the Project

implement several measures under the County of Riverside Board of Supervisors Policy F-3 (Good Neighbor Policy for Logistics and Warehouse/Distribution Uses). These measures would reduce fuel consumption during construction. It should also be noted that there are no unusual Project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities; or equipment that would not conform to current emissions standards (and related fuel efficiencies). Equipment employed in construction of the Project's Alternative Land Use Plan would therefore not result in inefficient wasteful, or unnecessary consumption of fuel.

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

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

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

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

In general, the construction processes promote conservation and efficient use of energy by reducing raw materials demands, with related reduction in energy demands associated with raw materials extraction, transportation, processing, and refinement. Use of materials in bulk reduces energy demands associated with preparation and transport of construction materials as well as the transport and disposal of construction waste and solid waste in general, with corollary

reduced demands on area landfill capacities and energy consumed by waste transport and landfill operations.

## 6.4 OPERATIONAL ENERGY DEMANDS

Energy consumption in support of or related to the proposed Project’s Alternative Land Use Plan operations would include transportation energy demands (energy consumed by employee and patron vehicles accessing the Project site) and facilities energy demands (energy consumed by building operations and site maintenance activities).

### 6.4.1 TRANSPORTATION ENERGY DEMANDS

Energy that would be consumed by the Proposed Project’s Alternative Land Use Plan-generated traffic is a function of total VMT and estimated vehicle fuel economies of vehicles accessing the Project site. The following vehicle subcategories included in this analysis are consistent with CalEEMod and EMFAC for a 2030 Opening Year.

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project’s AQIA, the Project would generate an estimated 142,547,830 annual VMT along area roadways for all vehicles with full build-out of the Project (22). Table 6-10 provides an estimated range of annual fuel consumption resulting from Project generated vehicles. Based on Table 6-10, it is estimated that 10,496,067 gallons of fuel will be consumed.

**TABLE 6-10: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (ALL VEHICLES)**

Vehicle Type	Annual VMT	Estimated Annual Fuel Consumption (gallons)
LDA	36,542,256	891,618
LDT1	3,741,072	109,781
LDT2	11,690,850	346,527
MDV	467,634	17,291
LHDT1	4,409,120	271,707
LHDT2	1,202,487	71,277
MHDT	13,406,507	1,123,478
HHDT	62,336,468	7,405,194
OBUS	267,219	34,388
MCY	8,484,217	224,807
<b>TOTAL (ALL VEHICLES)</b>	<b>142,547,830</b>	<b>10,496,067</b>

### 6.4.2 FACILITY ENERGY DEMANDS

Project building operations and Project site maintenance activities would result in the consumption of natural gas and electricity. Natural gas would be supplied to the Project by

SoCalGas; electricity would be supplied to the Project by SCE. Annual natural gas and electricity demands of the Project are summarized in Table 6-11.

**TABLE 6-11: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY**

Natural Gas Demand	kBTU/year
Industrial Park	1,949,860
Manufacturing	27,541,100
Refrigerated Warehouse-No Rail	87,751,800
Unrefrigerated Warehouse-No Rail	6,022,750
Unrefrigerated Warehouse-No Rail	760,479.00
Free-Standing Discount Superstore	222,000.00
Strip Mall	58,918.80
<b>TOTAL PROJECT NATURAL GAS DEMAND</b>	<b>124,306,908</b>
Electricity Demand	kWh/year
Industrial Park	4,831,950
Manufacturing	8,044,480
Refrigerated Warehouse-No Rail	67,190,500
Unrefrigerated Warehouse-No Rail	6,672,490
Unrefrigerated Warehouse-No Rail	842,520
Free-Standing Discount Superstore	1,125,600
Strip Mall	298,734
<b>TOTAL PROJECT ELECTRICITY DEMAND</b>	<b>88,707,540</b>

**6.4.3 OPERATIONAL ENERGY EFFICIENCY/CONSERVATION MEASURES**

Energy efficiency/energy conservation attributes of the Project would be complemented by increasingly stringent state and federal regulatory actions addressing vehicle fuel economies and vehicle emissions standards; and enhanced building/utilities energy efficiencies mandated under California building codes (e.g., Title 24, California Green Building Standards Code). Additionally, consistent with the *Air Quality & Greenhouse Gas Assessment, Stoneridge Commerce Center Specific Plan* prepared by ECORP, the Project would implement the MM AQ-3 through MM AQ-7 and MM GHG-1 and MM GHG-2, would serve to generally reduce energy demand associated with the Project

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



### Enhanced Vehicle Fuel Efficiencies

Project annual fuel consumption estimates presented previously in Table 6-10 represent likely potential maximums that would occur for the Project. Under subsequent future conditions, average fuel economies of vehicles accessing the Project site can be expected to improve as older, less fuel-efficient vehicles are removed from circulation, and in response to fuel economy and emissions standards imposed on newer vehicles entering the circulation system.

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

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## 7 CONCLUSIONS

### 7.1.1 ENERGY IMPACT 1

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

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

### 7.1.2 ENERGY IMPACT 2

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

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

#### **CONSISTENCY WITH IEPR**

Electricity would be provided to the Project site by SCE, and SoCalGas will provide natural gas. SCE's Clean Power and Electrification Pathway (CPEP) white paper and the SoCalGas 2018 Corporate Sustainability Report build on existing state programs and policies. As such, under both land use plans, the Project is consistent with, and would not otherwise interfere with, nor obstruct implementation the goals presented in the 2019 IEPR.

Additionally, for both land use plans, the Project will comply with the applicable Title 24 standards which would ensure that the Project energy demands would not be inefficient, wasteful, or otherwise unnecessary. As such, development of the proposed Project would support the goals presented in the 2019 IEPR.

#### **CONSISTENCY WITH ENERGY ACTION PLAN**

The Project site is located along major transportation corridors with proximate access to the Interstate freeway system. The site selected for the Project facilitates access, acts to reduce VMT, and takes advantage of existing infrastructure systems. The Project therefore supports urban design and planning processes identified under the Energy Action Plan, is consistent with, and would not otherwise interfere with, nor obstruct implementation of the Energy Action Plan.

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

The 2019 version of Title 24 was adopted by the CEC and became effective on January 1, 2020. The analysis herein assumes compliance with the 2019 Title 24 Standards.

### **CONSISTENCY WITH RPS**

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

### **CONSISTENCY WITH AB 1493**

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

### **CONSISTENCY WITH SB 350**

This measure is not directly applicable to development projects, but the proposed Project would use energy from Southern California Edison, which has committed to diversify its portfolio of energy sources by increasing energy from wind and solar sources. No feature of the Project would interfere with implementation of SB 350.

### **CONSISTENCY WITH THE COUNTY OF RIVERSIDE CLIMATE ACTION PLAN**

The County of Riverside CAP (December 8, 2015) was designed under the premise that the County of Riverside, and the community it represents, is uniquely capable of addressing emissions associated with sources under Riverside County's jurisdiction, and that Riverside County's emission reduction efforts should coordinate with the state strategies of reducing emissions in order to accomplish these reductions in an efficient and cost-effective manner. The Project would implement the following energy-saving features and operational programs, consistent with the reduction measures set forth in the County of Riverside CAP, these measures would serve to generally reduce energy demand associated with the Project.

### **MM GHG-1**

All future projects proposed within the Specific Plan shall comply with CAP Update Measure R2-CE1, which requires that all future plot plans proposed within the Specific Plan that include more than 100,000 gross square feet of commercial, office, industrial, or manufacturing development shall provide onsite renewable energy production generation comprising at least 20 percent of the Project energy demand. The County shall verify implementation of CAP Update Measure R2-CE1 within the Project building plans and site designs prior to the issuance of building permit(s) and/or site plans (as applicable). The County shall verify implementation of CAP Update Measure R2-CE1 prior to the issuance of Certificate(s) of Occupancy.

### **MM GHG-2**

Pursuant to MM GHG-2, the Project final plans and designs would conform to provisions of the CAP Update through implementation of the Screening Table Measures. Measures that are applicable to Project energy usage are listed at Table 7-1.

**TABLE 7-1: CAP UPDATE CONSISTENCY – INDUSTRIAL AND COMMERCIAL LAND USE**

Feature	Description
EE10.A.1 Insulation	Enhanced Insulation (rigid wall insulation R-13, roof/attic R-38)
EE10.A.2 Windows	Greatly Enhanced Window Insulation (0.28 or less U-factor, 0.22 or less Solar Heat Gain Coefficient [SHGC])
EE10-A.3 Cool Roofs	Modest Cool Roof (Cool Roof Rating Council [CRRC] Rated 0.15 aged solar reflectance, 0.75 thermal emittance)
EE10.A.4 Air Infiltration	Blower Door Home Energy Rating System (HERS) Verified Envelope Leakage of equivalent
EE10.B.1 Heating/Cooling Distribution System	Model Duct Insulation (R-6)
EE10.B.2 Space Heating/Cooling Equipment	Improved Efficiency Heating, Ventilation, and Air Conditioning (HVAC) (Energy Efficiency Ratio [EER] 14/78% Annual Fuel Utilization Efficiency [AFUE] or 8 Heating Seasonal Performance Factor [HSPF])
EE10B.4 Water Heaters	High Efficiency Water Heater (0.72 Energy Factor)
EE10.B.5 Daylighting	All rooms daylighted
EE10.B.6 Artificial Lighting	High Efficiency Lights (50% of in-unit fixtures are high efficiency)
W2.E.2 Toilets	Water Efficient Toilets/Urinals (1.5 gallons per minute [gpm])
W2.E.3 Faucets	Water Efficient faucets (1.2 gpm)
T4.B.1 Electric Vehicle (EV) Recharging	Install EV charging stations in garages/parking areas

**7.1.3 ENERGY IMPACT 3**

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

As previously stated, the proposed Project is subject to California Building Code requirements. New buildings must achieve compliance with 2019 Building and Energy Efficiency Standards and the 2019 California Green Building Standards requirements. The CEC anticipates that single-family homes built with the 2019 standards will use approximately 7% less energy compared to the residential homes built under the 2016 standards. Additionally, after implementation of solar

PV systems, homes built under the 2019 standards will about 53% less energy than homes built under the 2016 standards. Nonresidential buildings will use approximately 30% less energy due to lighting upgrades compared to the prior code (20). The Project would also implement mitigation measures (previously discussed in Section ES.2 of this report), which would serve to generally reduce the overall per capital energy consumption associated with the Project while increasing reliance on renewable energy sources. Additionally, the Project's proximity to the Interstate freeway system would reduce VMT and therefore decrease reliance on fossil fuels. On this basis, the Project would not result in the inefficient, wasteful, or unnecessary consumption of energy. Further, the Project would not cause or result in the need for additional energy producing facilities or energy delivery systems and would reduce mobile based fossil fuel reliance.

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## 9 CERTIFICATIONS

The contents of this energy report represent an accurate depiction of the environmental impacts associated with the proposed Stoneridge Commerce Center Specific Plan (SP No. 239, A1) Project. The information contained in this energy report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at [hqureshi@urbanxroads.com](mailto:hqureshi@urbanxroads.com).

Haseeb Qureshi  
Associate Principal  
URBAN CROSSROADS, INC.  
[hqureshi@urbanxroads.com](mailto:hqureshi@urbanxroads.com)

### EDUCATION

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

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

### PROFESSIONAL AFFILIATIONS

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

### PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June, 2013  
Planned Communities and Urban Infill – Urban Land Institute • June, 2011  
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April, 2008  
Principles of Ambient Air Monitoring – California Air Resources Board • August, 2007  
AB2588 Regulatory Standards – Trinity Consultants • November, 2006  
Air Dispersion Modeling – Lakes Environmental • June, 2006

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## **APPENDIX 5.1:**

### **PRIMARY LAND USE CALEEMOD ANNUAL EMISSIONS MODEL OUTPUTS**

Stoneridge Commerce Center Operational Mobile Source Emissions

Primary Land Use Plan

Vehicle Class	Daily VMT <sup>1</sup>	Pollutant	Run Emission Rate <sup>2</sup> (Gram/Mile)	Idle Emission Rate (Gram/Vehicle/Day)	Start Emission Rate <sup>2</sup> (Grams/Start/Day)	Total Grams Daily	Metric Tons Daily	CO2e Annually
Passenger Automobiles	183913	CO2	513.197800	124.3677	17.10123	96868228.03	96.8682	
		CH4	0.231945	0.019008	0.022121	43037.44	0.0430	36709
		N2O	0.044348	0.016201	0.012167	8479.87	0.0085	

<sup>1</sup> Daily VMT calculated per CalEMod v 2016.3.2, which provides average distance traveled per trip type.

<sup>2</sup> Start emissions account for 4 automobile starts daily.

All emission factors sourced from EMFAC2017.

Vehicle Class	Daily VMT <sup>1</sup>	Pollutant	Run Emission Rate <sup>2</sup> (Gram/Mile)	Idle Emission Rate (Gram/Vehicle/Day)	Start Emission Rate <sup>2</sup> (Grams/Start/Day)	Total Grams Daily	Metric Tons Daily	CO2e Annually
Heavy Duty Trucks	211072	CO2	1120.405063	11022.54061	0	279650854.63	279.6509	
		CH4	0.001104	0.234962	0	1153.14	0.0012	107057
		N2O	0.176112	1.73259	0	43957.20	0.0440	

<sup>1</sup> In order to more accurately account for the trip distribution patterns of freight trucks, the average trip length is calculated at 53.9 miles, which represents the average distance between the Project site and the Port of Los Angeles/Long Beach, the Project site and the Banning Pass, the Project Site and the San Diego County line, the Project site and the Cajon Pass, and the Project site and downtown Los Angeles.

<sup>2</sup> Start emissions account for 4 automobile starts daily.

All emission factors sourced from EMFAC2017.

Stoneridge Commerce Center - Primary Land Use Plan - Riverside-South Coast County, Annual

**Stoneridge Commerce Center - Primary Land Use Plan  
Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	641.64	1000sqft	29.46	641,638.80	0
Manufacturing	847.68	1000sqft	38.92	847,677.60	0
Refrigerated Warehouse-No Rail	1,695.36	1000sqft	77.84	1,695,355.20	0
Unrefrigerated Warehouse-No Rail	2,966.87	1000sqft	136.22	2,966,871.60	0
Unrefrigerated Warehouse-No Rail	2,966.87	1000sqft	136.22	2,966,871.60	0
Unrefrigerated Warehouse-No Rail	427.76	1000sqft	19.64	427,759.20	0
Other Asphalt Surfaces	37.30	Acre	37.30	1,624,788.00	0
Other Non-Asphalt Surfaces	31.40	Acre	31.40	1,367,784.00	0
Free-Standing Discount Superstore	100.00	1000sqft	6.56	100,000.00	0
Strip Mall	21.97	1000sqft	1.44	21,968.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2030
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	502.65	<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**

Stoneridge Commerce Center - Primary Land Use Plan - Riverside-South Coast County, Annual

Project Characteristics - 2017 SCE CO2 Intensity Factor per Edison International Sustainability Template - Section 2 Quantative Information (2018)

Land Use - Land use types are consistent with the Traffic Impact Analysis prepared for the Project (Urban Crossroads 2020). Land uses also include 37.3 acres of internal circulation and 31.4 acres of offsite infrastructure.

Construction Phase - Construction timing adjusted to reflect a 2021 start date and 2030 Opening Year. Building construction, paving, and painting assumed to occur simultaneously.

Off-road Equipment - Ibid

Off-road Equipment - Ibid

Off-road Equipment - Ibid

Off-road Equipment - Ibid

Off-road Equipment - Equipment doubled to account for accelerated timeline compared with CalEEMod defaults

Trips and VMT - Building Construction worker & vendor trips reflect total building s.f. divided by the number of days of construction, coupled with the rates for commercial buildings in the CalEEMod User's Guide, Appendix E. Painting worker trips equate to paving.

Grading - Haul truck emissions calculated separately

Vehicle Trips - Mobile emissions modeled separately

Consumer Products - Consumer product emission factor adjusted to omit dry industrial warehouse square footage. Cold storage, manufacturing, industrial park, and all commercial retail is included.

Water And Wastewater - Water consumption per EMWD Water Supply Assessment Report - Stoneridge Commerce Center SP 239 (2020)

Construction Off-road Equipment Mitigation - "Mitigation" accounts for County requirements to employ Tier 3 engines or better and adhere to SCAQMD Rule 403

Energy Mitigation - Energy use reflects 2019 Title 24 Standards. Increase of efficiency per CEC 2019 Building Energy Efficiency Standards Frequently Asked Questions (2018)

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	40
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00



Stoneridge Commerce Center - Primary Land Use Plan - Riverside-South Coast County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	660.00	1,473.00
tblConstructionPhase	NumDays	9,300.00	1,473.00
tblConstructionPhase	NumDays	930.00	465.00
tblConstructionPhase	NumDays	660.00	1,473.00
tblConstructionPhase	NumDays	360.00	180.00
tblConsumerProducts	ROG_EF	1.98E-05	4.1E-06
tblLandUse	LandUseSquareFeet	641,640.00	641,638.80

Stoneridge Commerce Center - Primary Land Use Plan - Riverside-South Coast County, Annual

tblLandUse	LandUseSquareFeet	847,680.00	847,677.60
tblLandUse	LandUseSquareFeet	1,695,360.00	1,695,355.20
tblLandUse	LandUseSquareFeet	2,966,870.00	2,966,871.60
tblLandUse	LandUseSquareFeet	2,966,870.00	2,966,871.60
tblLandUse	LandUseSquareFeet	427,760.00	427,759.20
tblLandUse	LandUseSquareFeet	21,970.00	21,968.00
tblLandUse	LotAcreage	14.73	29.46
tblLandUse	LotAcreage	19.46	38.92
tblLandUse	LotAcreage	38.92	77.84
tblLandUse	LotAcreage	68.11	136.22
tblLandUse	LotAcreage	68.11	136.22
tblLandUse	LotAcreage	9.82	19.64
tblLandUse	LotAcreage	2.30	6.56
tblLandUse	LotAcreage	0.50	1.44
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	502.65
tblTripsAndVMT	VendorTripNumber	2,075.00	180.00
tblTripsAndVMT	WorkerTripNumber	5,305.00	257.00
tblTripsAndVMT	WorkerTripNumber	1,061.00	30.00
tblVehicleTrips	ST_TR	64.07	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	56.12	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	50.75	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	3.82	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	7,407,252.15	5,330,000.00
tblWater	IndoorWaterUseRate	148,379,250.00	15,864,849.00

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tblWater	IndoorWaterUseRate	196,026,000.00	31,024,945.00
tblWater	IndoorWaterUseRate	392,052,000.00	62,754,292.00
tblWater	IndoorWaterUseRate	1,627,373.30	1,170,000.00
tblWater	IndoorWaterUseRate	1,471,096,875.00	242,555,914.00
tblWater	OutdoorWaterUseRate	4,539,928.74	246,000.00
tblWater	OutdoorWaterUseRate	997,422.34	54,000.00

**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					
2021	0.5231	5.3523	2.8651	5.2500e-003	2.4101	0.2700	2.6802	1.3176	0.2484	1.5660	0.0000	461.8838	461.8838	0.1432	0.0000	465.4643
2022	0.9410	9.8360	7.2496	0.0155	3.4325	0.4243	3.8569	1.3264	0.3904	1.7168	0.0000	1,360.1483	1,360.1483	0.4268	0.0000	1,370.8176
2023	0.8595	8.7443	7.2322	0.0162	2.8120	0.3607	3.1728	0.9854	0.3319	1.3172	0.0000	1,421.4305	1,421.4305	0.4471	0.0000	1,432.6076
2024	6.9209	6.1720	7.6804	0.0180	0.4690	0.2352	0.7042	0.1272	0.2200	0.3472	0.0000	1,613.2943	1,613.2943	0.2747	0.0000	1,620.1623
2025	8.8406	7.3910	9.7543	0.0230	0.6030	0.2644	0.8675	0.1635	0.2473	0.4108	0.0000	2,057.5475	2,057.5475	0.3509	0.0000	2,066.3187
2026	8.8328	7.3675	9.6802	0.0228	0.6030	0.2643	0.8674	0.1635	0.2472	0.4107	0.0000	2,042.7378	2,042.7378	0.3495	0.0000	2,051.4759
2027	8.8253	7.3455	9.6151	0.0227	0.6030	0.2642	0.8672	0.1635	0.2470	0.4106	0.0000	2,029.8012	2,029.8012	0.3483	0.0000	2,038.5078
2028	8.7842	7.2990	9.5229	0.0225	0.6007	0.2630	0.8637	0.1629	0.2459	0.4088	0.0000	2,010.9527	2,010.9527	0.3457	0.0000	2,019.5961
2029	7.6626	6.3580	8.2690	0.0195	0.5245	0.2295	0.7539	0.1422	0.2146	0.3568	0.0000	1,747.2239	1,747.2239	0.3009	0.0000	1,754.7461
<b>Maximum</b>	<b>8.8406</b>	<b>9.8360</b>	<b>9.7543</b>	<b>0.0230</b>	<b>3.4325</b>	<b>0.4243</b>	<b>3.8569</b>	<b>1.3264</b>	<b>0.3904</b>	<b>1.7168</b>	<b>0.0000</b>	<b>2,057.5475</b>	<b>2,057.5475</b>	<b>0.4471</b>	<b>0.0000</b>	<b>2,066.3187</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					
2021	0.1328	2.5233	3.1034	5.2500e-003	0.9466	0.1251	1.0717	0.5158	0.1250	0.6409	0.0000	461.8833	461.8833	0.1432	0.0000	465.4638
2022	0.3880	7.2837	9.0346	0.0155	1.3534	0.3212	1.6746	0.5216	0.3212	0.8428	0.0000	1,360.1467	1,360.1467	0.4268	0.0000	1,370.8160
2023	0.4044	7.5963	9.4261	0.0162	1.1113	0.3291	1.4404	0.3886	0.3291	0.7176	0.0000	1,421.4289	1,421.4289	0.4471	0.0000	1,432.6059
2024	6.6476	6.7183	8.5734	0.0180	0.3137	0.3296	0.6433	0.0891	0.3294	0.4185	0.0000	1,613.2932	1,613.2932	0.2747	0.0000	1,620.1612
2025	8.5380	8.6129	10.9366	0.0230	0.4033	0.4237	0.8270	0.1145	0.4235	0.5380	0.0000	2,057.5461	2,057.5461	0.3509	0.0000	2,066.3172
2026	8.5302	8.5893	10.8626	0.0228	0.4033	0.4236	0.8269	0.1145	0.4234	0.5379	0.0000	2,042.7364	2,042.7364	0.3495	0.0000	2,051.4745
2027	8.5227	8.5674	10.7975	0.0227	0.4033	0.4235	0.8268	0.1145	0.4232	0.5377	0.0000	2,029.7998	2,029.7998	0.3483	0.0000	2,038.5064
2028	8.4828	8.5162	10.7007	0.0225	0.4017	0.4217	0.8234	0.1141	0.4215	0.5355	0.0000	2,010.9513	2,010.9513	0.3457	0.0000	2,019.5947
2029	7.3995	7.4207	9.2973	0.0195	0.3507	0.3680	0.7187	0.0996	0.3678	0.4674	0.0000	1,747.2227	1,747.2227	0.3009	0.0000	1,754.7449
<b>Maximum</b>	<b>8.5380</b>	<b>8.6129</b>	<b>10.9366</b>	<b>0.0230</b>	<b>1.3534</b>	<b>0.4237</b>	<b>1.6746</b>	<b>0.5216</b>	<b>0.4235</b>	<b>0.8428</b>	<b>0.0000</b>	<b>2,057.5461</b>	<b>2,057.5461</b>	<b>0.4471</b>	<b>0.0000</b>	<b>2,066.3172</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>6.02</b>	<b>0.06</b>	<b>-15.12</b>	<b>0.00</b>	<b>52.83</b>	<b>-22.90</b>	<b>39.50</b>	<b>54.48</b>	<b>-32.25</b>	<b>24.60</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)
4	4-8-2021	7-7-2021	0.2226	0.1006

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5	7-8-2021	10-7-2021	2.9253	1.3226
6	10-8-2021	1-7-2022	2.8846	1.3226
7	1-8-2022	4-7-2022	2.4674	1.5319
8	4-8-2022	7-7-2022	2.7694	2.0565
9	7-8-2022	10-7-2022	2.7998	2.0791
10	10-8-2022	1-7-2023	2.7766	2.0791
11	1-8-2023	4-7-2023	2.4406	2.0333
12	4-8-2023	7-7-2023	2.4677	2.0558
13	7-8-2023	10-7-2023	2.4948	2.0784
14	10-8-2023	1-7-2024	2.0067	1.6718
15	1-8-2024	4-7-2024	0.7831	0.7994
16	4-8-2024	7-7-2024	4.1942	4.2816
17	7-8-2024	10-7-2024	4.2399	4.3283
18	10-8-2024	1-7-2025	4.2244	4.3236
19	1-8-2025	4-7-2025	3.9958	4.2223
20	4-8-2025	7-7-2025	4.0442	4.2732
21	7-8-2025	10-7-2025	4.0883	4.3198
22	10-8-2025	1-7-2026	4.0837	4.3152
23	1-8-2026	4-7-2026	3.9881	4.2146
24	4-8-2026	7-7-2026	4.0364	4.2654
25	7-8-2026	10-7-2026	4.0804	4.3119
26	10-8-2026	1-7-2027	4.0759	4.3073
27	1-8-2027	4-7-2027	3.9809	4.2073
28	4-8-2027	7-7-2027	4.0291	4.2580
29	7-8-2027	10-7-2027	4.0730	4.3045
30	10-8-2027	1-7-2028	4.0685	4.3000
31	1-8-2028	4-7-2028	4.0187	4.2476

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32	4-8-2028	7-7-2028	4.0227	4.2516
33	7-8-2028	10-7-2028	4.0665	4.2980
34	10-8-2028	1-7-2029	4.0620	4.2935
35	1-8-2029	4-7-2029	3.9684	4.1949
36	4-8-2029	7-7-2029	4.0165	4.2455
37	7-8-2029	9-30-2029	3.7517	3.9656
		Highest	4.2399	4.3283

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	11.9617	1.1100e-003	0.1236	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	0.2416	0.2416	6.2000e-004	0.0000	0.2572
Energy	0.7048	6.4071	5.3819	0.0384		0.4869	0.4869		0.4869	0.4869	0.0000	29,545.6159	29,545.6159	1.4359	0.3973	29,699.9066
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	2,004.1988	0.0000	2,004.1988	118.4448	0.0000	4,965.3177
Water						0.0000	0.0000		0.0000	0.0000	113.7990	1,065.6558	1,179.4548	11.7497	0.2887	1,559.2321
<b>Total</b>	<b>12.6665</b>	<b>6.4082</b>	<b>5.5056</b>	<b>0.0385</b>	<b>0.0000</b>	<b>0.4874</b>	<b>0.4874</b>	<b>0.0000</b>	<b>0.4874</b>	<b>0.4874</b>	<b>2,117.9978</b>	<b>30,611.5133</b>	<b>32,729.5111</b>	<b>131.6310</b>	<b>0.6860</b>	<b>36,224.7135</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	11.9617	1.1100e-003	0.1236	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	0.2416	0.2416	6.2000e-004	0.0000	0.2572
Energy	0.6502	5.9113	4.9655	0.0355		0.4493	0.4493		0.4493	0.4493	0.0000	28,421.4688	28,421.4688	1.3918	0.3804	28,569.6303
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	2,004.1988	0.0000	2,004.1988	118.4448	0.0000	4,965.3177
Water						0.0000	0.0000		0.0000	0.0000	113.7990	1,065.6558	1,179.4548	11.7497	0.2887	1,559.2321
<b>Total</b>	<b>12.6120</b>	<b>5.9124</b>	<b>5.0891</b>	<b>0.0355</b>	<b>0.0000</b>	<b>0.4497</b>	<b>0.4497</b>	<b>0.0000</b>	<b>0.4497</b>	<b>0.4497</b>	<b>2,117.9978</b>	<b>29,487.3662</b>	<b>31,605.3640</b>	<b>131.5869</b>	<b>0.6691</b>	<b>35,094.4373</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>0.43</b>	<b>7.74</b>	<b>7.56</b>	<b>7.72</b>	<b>0.00</b>	<b>7.73</b>	<b>7.73</b>	<b>0.00</b>	<b>7.73</b>	<b>7.73</b>	<b>0.00</b>	<b>3.67</b>	<b>3.43</b>	<b>0.03</b>	<b>2.46</b>	<b>3.12</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	Site Preparation	Site Preparation	7/1/2021	3/9/2022	5	180	
2	Grading	Grading	3/10/2022	12/20/2023	5	465	
3	Building Construction	Building Construction	3/22/2024	11/13/2029	5	1473	
4	Paving	Paving	3/22/2024	11/13/2029	5	1473	
5	Architectural Coating	Architectural Coating	3/22/2024	11/13/2029	5	1473	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 2325**

**Acres of Paving: 68.7**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 14,502,213; Non-Residential Outdoor: 4,834,071; Striped Parking Area: 179,554 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	6	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	8	8.00	97	0.37
Grading	Excavators	4	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	4	8.00	130	0.42
Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Architectural Coating	Air Compressors	2	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	14	35.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	16	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	257.00	180.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	12	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3848	0.0000	2.3848	1.3109	0.0000	1.3109	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5132	5.3456	2.7924	5.0200e-003		0.2699	0.2699		0.2483	0.2483	0.0000	441.3515	441.3515	0.1427	0.0000	444.9200
<b>Total</b>	<b>0.5132</b>	<b>5.3456</b>	<b>2.7924</b>	<b>5.0200e-003</b>	<b>2.3848</b>	<b>0.2699</b>	<b>2.6546</b>	<b>1.3109</b>	<b>0.2483</b>	<b>1.5591</b>	<b>0.0000</b>	<b>441.3515</b>	<b>441.3515</b>	<b>0.1427</b>	<b>0.0000</b>	<b>444.9200</b>

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**3.2 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.9000e-003	6.6700e-003	0.0727	2.3000e-004	0.0254	1.5000e-004	0.0255	6.7400e-003	1.4000e-004	6.8800e-003	0.0000	20.5324	20.5324	4.8000e-004	0.0000	20.5443
<b>Total</b>	<b>9.9000e-003</b>	<b>6.6700e-003</b>	<b>0.0727</b>	<b>2.3000e-004</b>	<b>0.0254</b>	<b>1.5000e-004</b>	<b>0.0255</b>	<b>6.7400e-003</b>	<b>1.4000e-004</b>	<b>6.8800e-003</b>	<b>0.0000</b>	<b>20.5324</b>	<b>20.5324</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>20.5443</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					0.9301	0.0000	0.9301	0.5112	0.0000	0.5112	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1229	2.5167	3.0307	5.0200e-003		0.1249	0.1249		0.1249	0.1249	0.0000	441.3509	441.3509	0.1427	0.0000	444.9195
<b>Total</b>	<b>0.1229</b>	<b>2.5167</b>	<b>3.0307</b>	<b>5.0200e-003</b>	<b>0.9301</b>	<b>0.1249</b>	<b>1.0549</b>	<b>0.5112</b>	<b>0.1249</b>	<b>0.6361</b>	<b>0.0000</b>	<b>441.3509</b>	<b>441.3509</b>	<b>0.1427</b>	<b>0.0000</b>	<b>444.9195</b>

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**3.2 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.9000e-003	6.6700e-003	0.0727	2.3000e-004	0.0166	1.5000e-004	0.0167	4.5800e-003	1.4000e-004	4.7200e-003	0.0000	20.5324	20.5324	4.8000e-004	0.0000	20.5443
<b>Total</b>	<b>9.9000e-003</b>	<b>6.6700e-003</b>	<b>0.0727</b>	<b>2.3000e-004</b>	<b>0.0166</b>	<b>1.5000e-004</b>	<b>0.0167</b>	<b>4.5800e-003</b>	<b>1.4000e-004</b>	<b>4.7200e-003</b>	<b>0.0000</b>	<b>20.5324</b>	<b>20.5324</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>20.5443</b>

**3.2 Site Preparation - 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					0.8672	0.0000	0.8672	0.4767	0.0000	0.4767	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1522	1.5880	0.9455	1.8300e-003		0.0774	0.0774		0.0712	0.0712	0.0000	160.5091	160.5091	0.0519	0.0000	161.8069
<b>Total</b>	<b>0.1522</b>	<b>1.5880</b>	<b>0.9455</b>	<b>1.8300e-003</b>	<b>0.8672</b>	<b>0.0774</b>	<b>0.9446</b>	<b>0.4767</b>	<b>0.0712</b>	<b>0.5479</b>	<b>0.0000</b>	<b>160.5091</b>	<b>160.5091</b>	<b>0.0519</b>	<b>0.0000</b>	<b>161.8069</b>

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**3.2 Site Preparation - 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	3.3700e-003	2.1800e-003	0.0244	8.0000e-005	9.2300e-003	5.0000e-005	9.2900e-003	2.4500e-003	5.0000e-005	2.5000e-003	0.0000	7.1939	7.1939	1.6000e-004	0.0000	7.1978
<b>Total</b>	<b>3.3700e-003</b>	<b>2.1800e-003</b>	<b>0.0244</b>	<b>8.0000e-005</b>	<b>9.2300e-003</b>	<b>5.0000e-005</b>	<b>9.2900e-003</b>	<b>2.4500e-003</b>	<b>5.0000e-005</b>	<b>2.5000e-003</b>	<b>0.0000</b>	<b>7.1939</b>	<b>7.1939</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>7.1978</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					0.3382	0.0000	0.3382	0.1859	0.0000	0.1859	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0447	0.9152	1.1021	1.8300e-003		0.0454	0.0454		0.0454	0.0454	0.0000	160.5089	160.5089	0.0519	0.0000	161.8067
<b>Total</b>	<b>0.0447</b>	<b>0.9152</b>	<b>1.1021</b>	<b>1.8300e-003</b>	<b>0.3382</b>	<b>0.0454</b>	<b>0.3836</b>	<b>0.1859</b>	<b>0.0454</b>	<b>0.2313</b>	<b>0.0000</b>	<b>160.5089</b>	<b>160.5089</b>	<b>0.0519</b>	<b>0.0000</b>	<b>161.8067</b>

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**3.2 Site Preparation - 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	3.3700e-003	2.1800e-003	0.0244	8.0000e-005	6.0300e-003	5.0000e-005	6.0800e-003	1.6700e-003	5.0000e-005	1.7200e-003	0.0000	7.1939	7.1939	1.6000e-004	0.0000	7.1978
<b>Total</b>	<b>3.3700e-003</b>	<b>2.1800e-003</b>	<b>0.0244</b>	<b>8.0000e-005</b>	<b>6.0300e-003</b>	<b>5.0000e-005</b>	<b>6.0800e-003</b>	<b>1.6700e-003</b>	<b>5.0000e-005</b>	<b>1.7200e-003</b>	<b>0.0000</b>	<b>7.1939</b>	<b>7.1939</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>7.1978</b>

**3.3 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					2.5095	0.0000	2.5095	0.8349	0.0000	0.8349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7685	8.2348	6.1568	0.0132		0.3466	0.3466		0.3189	0.3189	0.0000	1,156.1335	1,156.1335	0.3739	0.0000	1,165.4814
<b>Total</b>	<b>0.7685</b>	<b>8.2348</b>	<b>6.1568</b>	<b>0.0132</b>	<b>2.5095</b>	<b>0.3466</b>	<b>2.8561</b>	<b>0.8349</b>	<b>0.3189</b>	<b>1.1538</b>	<b>0.0000</b>	<b>1,156.1335</b>	<b>1,156.1335</b>	<b>0.3739</b>	<b>0.0000</b>	<b>1,165.4814</b>



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**3.3 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	0.0000	0.0000	0.0000	0.0000	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	0.0170	0.0110	0.1230	4.0000e-004	0.0466	2.7000e-004	0.0469	0.0124	2.5000e-004	0.0126	0.0000	36.3118	36.3118	7.9000e-004	0.0000	36.3316
<b>Total</b>	<b>0.0170</b>	<b>0.0110</b>	<b>0.1230</b>	<b>4.0000e-004</b>	<b>0.0466</b>	<b>2.7000e-004</b>	<b>0.0469</b>	<b>0.0124</b>	<b>2.5000e-004</b>	<b>0.0126</b>	<b>0.0000</b>	<b>36.3118</b>	<b>36.3118</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>36.3316</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					0.9787	0.0000	0.9787	0.3256	0.0000	0.3256	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3229	6.3554	7.7852	0.0132		0.2755	0.2755		0.2755	0.2755	0.0000	1,156.1321	1,156.1321	0.3739	0.0000	1,165.4800
<b>Total</b>	<b>0.3229</b>	<b>6.3554</b>	<b>7.7852</b>	<b>0.0132</b>	<b>0.9787</b>	<b>0.2755</b>	<b>1.2542</b>	<b>0.3256</b>	<b>0.2755</b>	<b>0.6011</b>	<b>0.0000</b>	<b>1,156.1321</b>	<b>1,156.1321</b>	<b>0.3739</b>	<b>0.0000</b>	<b>1,165.4800</b>

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**3.3 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	0.0000	0.0000	0.0000	0.0000	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	0.0170	0.0110	0.1230	4.0000e-004	0.0304	2.7000e-004	0.0307	8.4100e-003	2.5000e-004	8.6600e-003	0.0000	36.3118	36.3118	7.9000e-004	0.0000	36.3316
<b>Total</b>	<b>0.0170</b>	<b>0.0110</b>	<b>0.1230</b>	<b>4.0000e-004</b>	<b>0.0304</b>	<b>2.7000e-004</b>	<b>0.0307</b>	<b>8.4100e-003</b>	<b>2.5000e-004</b>	<b>8.6600e-003</b>	<b>0.0000</b>	<b>36.3118</b>	<b>36.3118</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>36.3316</b>

**3.3 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					2.7564	0.0000	2.7564	0.9706	0.0000	0.9706	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.8404	8.7325	7.0969	0.0157		0.3604	0.3604		0.3316	0.3316	0.0000	1,379.7408	1,379.7408	0.4462	0.0000	1,390.8967
<b>Total</b>	<b>0.8404</b>	<b>8.7325</b>	<b>7.0969</b>	<b>0.0157</b>	<b>2.7564</b>	<b>0.3604</b>	<b>3.1168</b>	<b>0.9706</b>	<b>0.3316</b>	<b>1.3022</b>	<b>0.0000</b>	<b>1,379.7408</b>	<b>1,379.7408</b>	<b>0.4462</b>	<b>0.0000</b>	<b>1,390.8967</b>

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**3.3 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	0.0000	0.0000	0.0000	0.0000	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	0.0191	0.0119	0.1353	4.6000e-004	0.0556	3.2000e-004	0.0559	0.0148	2.9000e-004	0.0151	0.0000	41.6897	41.6897	8.5000e-004	0.0000	41.7109
<b>Total</b>	<b>0.0191</b>	<b>0.0119</b>	<b>0.1353</b>	<b>4.6000e-004</b>	<b>0.0556</b>	<b>3.2000e-004</b>	<b>0.0559</b>	<b>0.0148</b>	<b>2.9000e-004</b>	<b>0.0151</b>	<b>0.0000</b>	<b>41.6897</b>	<b>41.6897</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>41.7109</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					1.0750	0.0000	1.0750	0.3785	0.0000	0.3785	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3853	7.5845	9.2908	0.0157		0.3288	0.3288		0.3288	0.3288	0.0000	1,379.7391	1,379.7391	0.4462	0.0000	1,390.8950
<b>Total</b>	<b>0.3853</b>	<b>7.5845</b>	<b>9.2908</b>	<b>0.0157</b>	<b>1.0750</b>	<b>0.3288</b>	<b>1.4038</b>	<b>0.3785</b>	<b>0.3288</b>	<b>0.7073</b>	<b>0.0000</b>	<b>1,379.7391</b>	<b>1,379.7391</b>	<b>0.4462</b>	<b>0.0000</b>	<b>1,390.8950</b>

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**3.3 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0191	0.0119	0.1353	4.6000e-004	0.0363	3.2000e-004	0.0366	0.0100	2.9000e-004	0.0103	0.0000	41.6897	41.6897	8.5000e-004	0.0000	41.7109
<b>Total</b>	<b>0.0191</b>	<b>0.0119</b>	<b>0.1353</b>	<b>4.6000e-004</b>	<b>0.0363</b>	<b>3.2000e-004</b>	<b>0.0366</b>	<b>0.0100</b>	<b>2.9000e-004</b>	<b>0.0103</b>	<b>0.0000</b>	<b>41.6897</b>	<b>41.6897</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>41.7109</b>

**3.4 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	0.2987	2.7291	3.2819	5.4700e-003		0.1245	0.1245		0.1171	0.1171	0.0000	470.6537	470.6537	0.1113	0.0000	473.4361
<b>Total</b>	<b>0.2987</b>	<b>2.7291</b>	<b>3.2819</b>	<b>5.4700e-003</b>		<b>0.1245</b>	<b>0.1245</b>		<b>0.1171</b>	<b>0.1171</b>	<b>0.0000</b>	<b>470.6537</b>	<b>470.6537</b>	<b>0.1113</b>	<b>0.0000</b>	<b>473.4361</b>

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**3.4 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	0.0305	1.1937	0.2570	4.4800e-003	0.1154	1.2200e-003	0.1166	0.0333	1.1600e-003	0.0345	0.0000	428.6429	428.6429	0.0241	0.0000	429.2458
Worker	0.0929	0.0554	0.6527	2.2900e-003	0.2867	1.6200e-003	0.2883	0.0761	1.4900e-003	0.0776	0.0000	207.2442	207.2442	3.9800e-003	0.0000	207.3436
<b>Total</b>	<b>0.1234</b>	<b>1.2491</b>	<b>0.9097</b>	<b>6.7700e-003</b>	<b>0.4021</b>	<b>2.8400e-003</b>	<b>0.4049</b>	<b>0.1094</b>	<b>2.6500e-003</b>	<b>0.1121</b>	<b>0.0000</b>	<b>635.8871</b>	<b>635.8871</b>	<b>0.0281</b>	<b>0.0000</b>	<b>636.5895</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	0.1368	2.8879	3.6284	5.4700e-003		0.1834	0.1834		0.1834	0.1834	0.0000	470.6531	470.6531	0.1113	0.0000	473.4355
<b>Total</b>	<b>0.1368</b>	<b>2.8879</b>	<b>3.6284</b>	<b>5.4700e-003</b>		<b>0.1834</b>	<b>0.1834</b>		<b>0.1834</b>	<b>0.1834</b>	<b>0.0000</b>	<b>470.6531</b>	<b>470.6531</b>	<b>0.1113</b>	<b>0.0000</b>	<b>473.4355</b>

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**3.4 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0305	1.1937	0.2570	4.4800e-003	0.0827	1.2200e-003	0.0839	0.0253	1.1600e-003	0.0264	0.0000	428.6429	428.6429	0.0241	0.0000	429.2458
Worker	0.0929	0.0554	0.6527	2.2900e-003	0.1873	1.6200e-003	0.1889	0.0517	1.4900e-003	0.0532	0.0000	207.2442	207.2442	3.9800e-003	0.0000	207.3436
<b>Total</b>	<b>0.1234</b>	<b>1.2491</b>	<b>0.9097</b>	<b>6.7700e-003</b>	<b>0.2699</b>	<b>2.8400e-003</b>	<b>0.2728</b>	<b>0.0770</b>	<b>2.6500e-003</b>	<b>0.0796</b>	<b>0.0000</b>	<b>635.8871</b>	<b>635.8871</b>	<b>0.0281</b>	<b>0.0000</b>	<b>636.5895</b>

**3.4 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	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670
<b>Total</b>	<b>0.3569</b>	<b>3.2546</b>	<b>4.1981</b>	<b>7.0400e-003</b>		<b>0.1377</b>	<b>0.1377</b>		<b>0.1295</b>	<b>0.1295</b>	<b>0.0000</b>	<b>605.3098</b>	<b>605.3098</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8670</b>

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**3.4 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	0.0383	1.5177	0.3193	5.7200e-003	0.1483	1.5400e-003	0.1499	0.0428	1.4800e-003	0.0443	0.0000	547.5848	547.5848	0.0302	0.0000	548.3401
Worker	0.1130	0.0648	0.7782	2.8300e-003	0.3686	2.0400e-003	0.3707	0.0979	1.8800e-003	0.0998	0.0000	255.7924	255.7924	4.6400e-003	0.0000	255.9084
<b>Total</b>	<b>0.1513</b>	<b>1.5825</b>	<b>1.0975</b>	<b>8.5500e-003</b>	<b>0.5170</b>	<b>3.5800e-003</b>	<b>0.5206</b>	<b>0.1407</b>	<b>3.3600e-003</b>	<b>0.1440</b>	<b>0.0000</b>	<b>803.3772</b>	<b>803.3772</b>	<b>0.0349</b>	<b>0.0000</b>	<b>804.2485</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	0.1759	3.7130	4.6651	7.0400e-003		0.2358	0.2358		0.2358	0.2358	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663
<b>Total</b>	<b>0.1759</b>	<b>3.7130</b>	<b>4.6651</b>	<b>7.0400e-003</b>		<b>0.2358</b>	<b>0.2358</b>		<b>0.2358</b>	<b>0.2358</b>	<b>0.0000</b>	<b>605.3091</b>	<b>605.3091</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8663</b>

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**3.4 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	0.0383	1.5177	0.3193	5.7200e-003	0.1063	1.5400e-003	0.1079	0.0325	1.4800e-003	0.0340	0.0000	547.5848	547.5848	0.0302	0.0000	548.3401
Worker	0.1130	0.0648	0.7782	2.8300e-003	0.2408	2.0400e-003	0.2428	0.0665	1.8800e-003	0.0684	0.0000	255.7924	255.7924	4.6400e-003	0.0000	255.9084
<b>Total</b>	<b>0.1513</b>	<b>1.5825</b>	<b>1.0975</b>	<b>8.5500e-003</b>	<b>0.3471</b>	<b>3.5800e-003</b>	<b>0.3507</b>	<b>0.0990</b>	<b>3.3600e-003</b>	<b>0.1023</b>	<b>0.0000</b>	<b>803.3772</b>	<b>803.3772</b>	<b>0.0349</b>	<b>0.0000</b>	<b>804.2485</b>

**3.4 Building Construction - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670
<b>Total</b>	<b>0.3569</b>	<b>3.2546</b>	<b>4.1981</b>	<b>7.0400e-003</b>		<b>0.1377</b>	<b>0.1377</b>		<b>0.1295</b>	<b>0.1295</b>	<b>0.0000</b>	<b>605.3098</b>	<b>605.3098</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8670</b>



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**3.4 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	0.0374	1.5008	0.3104	5.6800e-003	0.1483	1.5200e-003	0.1499	0.0428	1.4600e-003	0.0443	0.0000	544.2662	544.2662	0.0294	0.0000	545.0011
Worker	0.1074	0.0594	0.7254	2.7200e-003	0.3686	1.9800e-003	0.3706	0.0979	1.8200e-003	0.0997	0.0000	246.4762	246.4762	4.2300e-003	0.0000	246.5819
<b>Total</b>	<b>0.1448</b>	<b>1.5602</b>	<b>1.0358</b>	<b>8.4000e-003</b>	<b>0.5170</b>	<b>3.5000e-003</b>	<b>0.5205</b>	<b>0.1407</b>	<b>3.2800e-003</b>	<b>0.1440</b>	<b>0.0000</b>	<b>790.7424</b>	<b>790.7424</b>	<b>0.0336</b>	<b>0.0000</b>	<b>791.5831</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	0.1759	3.7130	4.6651	7.0400e-003		0.2358	0.2358		0.2358	0.2358	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663
<b>Total</b>	<b>0.1759</b>	<b>3.7130</b>	<b>4.6651</b>	<b>7.0400e-003</b>		<b>0.2358</b>	<b>0.2358</b>		<b>0.2358</b>	<b>0.2358</b>	<b>0.0000</b>	<b>605.3091</b>	<b>605.3091</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8663</b>

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**3.4 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	0.0374	1.5008	0.3104	5.6800e-003	0.1063	1.5200e-003	0.1078	0.0325	1.4600e-003	0.0339	0.0000	544.2662	544.2662	0.0294	0.0000	545.0011
Worker	0.1074	0.0594	0.7254	2.7200e-003	0.2408	1.9800e-003	0.2427	0.0665	1.8200e-003	0.0683	0.0000	246.4762	246.4762	4.2300e-003	0.0000	246.5819
<b>Total</b>	<b>0.1448</b>	<b>1.5602</b>	<b>1.0358</b>	<b>8.4000e-003</b>	<b>0.3471</b>	<b>3.5000e-003</b>	<b>0.3506</b>	<b>0.0990</b>	<b>3.2800e-003</b>	<b>0.1023</b>	<b>0.0000</b>	<b>790.7424</b>	<b>790.7424</b>	<b>0.0336</b>	<b>0.0000</b>	<b>791.5831</b>

**3.4 Building Construction - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670
<b>Total</b>	<b>0.3569</b>	<b>3.2546</b>	<b>4.1981</b>	<b>7.0400e-003</b>		<b>0.1377</b>	<b>0.1377</b>		<b>0.1295</b>	<b>0.1295</b>	<b>0.0000</b>	<b>605.3098</b>	<b>605.3098</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8670</b>

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**3.4 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	0.0367	1.4848	0.3031	5.6500e-003	0.1483	1.5000e-003	0.1498	0.0428	1.4400e-003	0.0442	0.0000	541.4032	541.4032	0.0286	0.0000	542.1178
Worker	0.1019	0.0546	0.6785	2.6300e-003	0.3686	1.8700e-003	0.3705	0.0979	1.7200e-003	0.0996	0.0000	238.3094	238.3094	3.8600e-003	0.0000	238.4059
<b>Total</b>	<b>0.1386</b>	<b>1.5394</b>	<b>0.9816</b>	<b>8.2800e-003</b>	<b>0.5170</b>	<b>3.3700e-003</b>	<b>0.5203</b>	<b>0.1407</b>	<b>3.1600e-003</b>	<b>0.1438</b>	<b>0.0000</b>	<b>779.7125</b>	<b>779.7125</b>	<b>0.0324</b>	<b>0.0000</b>	<b>780.5237</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	0.1759	3.7130	4.6651	7.0400e-003		0.2358	0.2358		0.2358	0.2358	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663
<b>Total</b>	<b>0.1759</b>	<b>3.7130</b>	<b>4.6651</b>	<b>7.0400e-003</b>		<b>0.2358</b>	<b>0.2358</b>		<b>0.2358</b>	<b>0.2358</b>	<b>0.0000</b>	<b>605.3091</b>	<b>605.3091</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8663</b>

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**3.4 Building Construction - 2027**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0367	1.4848	0.3031	5.6500e-003	0.1063	1.5000e-003	0.1078	0.0325	1.4400e-003	0.0339	0.0000	541.4032	541.4032	0.0286	0.0000	542.1178
Worker	0.1019	0.0546	0.6785	2.6300e-003	0.2408	1.8700e-003	0.2426	0.0665	1.7200e-003	0.0682	0.0000	238.3094	238.3094	3.8600e-003	0.0000	238.4059
<b>Total</b>	<b>0.1386</b>	<b>1.5394</b>	<b>0.9816</b>	<b>8.2800e-003</b>	<b>0.3471</b>	<b>3.3700e-003</b>	<b>0.3504</b>	<b>0.0990</b>	<b>3.1600e-003</b>	<b>0.1021</b>	<b>0.0000</b>	<b>779.7125</b>	<b>779.7125</b>	<b>0.0324</b>	<b>0.0000</b>	<b>780.5237</b>

**3.4 Building Construction - 2028**

**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	0.3555	3.2421	4.1820	7.0100e-003		0.1372	0.1372		0.1290	0.1290	0.0000	602.9906	602.9906	0.1417	0.0000	606.5342
<b>Total</b>	<b>0.3555</b>	<b>3.2421</b>	<b>4.1820</b>	<b>7.0100e-003</b>		<b>0.1372</b>	<b>0.1372</b>		<b>0.1290</b>	<b>0.1290</b>	<b>0.0000</b>	<b>602.9906</b>	<b>602.9906</b>	<b>0.1417</b>	<b>0.0000</b>	<b>606.5342</b>

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**3.4 Building Construction - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0360	1.4661	0.2966	5.6000e-003	0.1478	1.4800e-003	0.1492	0.0426	1.4200e-003	0.0440	0.0000	537.0143	537.0143	0.0277	0.0000	537.7060
Worker	0.0961	0.0501	0.6353	2.5400e-003	0.3672	1.7300e-003	0.3690	0.0975	1.5900e-003	0.0991	0.0000	230.2968	230.2968	3.5400e-003	0.0000	230.3852
<b>Total</b>	<b>0.1320</b>	<b>1.5162</b>	<b>0.9319</b>	<b>8.1400e-003</b>	<b>0.5150</b>	<b>3.2100e-003</b>	<b>0.5182</b>	<b>0.1401</b>	<b>3.0100e-003</b>	<b>0.1431</b>	<b>0.0000</b>	<b>767.3111</b>	<b>767.3111</b>	<b>0.0312</b>	<b>0.0000</b>	<b>768.0912</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	0.1752	3.6988	4.6472	7.0100e-003		0.2349	0.2349		0.2349	0.2349	0.0000	602.9899	602.9899	0.1417	0.0000	606.5335
<b>Total</b>	<b>0.1752</b>	<b>3.6988</b>	<b>4.6472</b>	<b>7.0100e-003</b>		<b>0.2349</b>	<b>0.2349</b>		<b>0.2349</b>	<b>0.2349</b>	<b>0.0000</b>	<b>602.9899</b>	<b>602.9899</b>	<b>0.1417</b>	<b>0.0000</b>	<b>606.5335</b>

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**3.4 Building Construction - 2028**

**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	0.0360	1.4661	0.2966	5.6000e-003	0.1059	1.4800e-003	0.1074	0.0324	1.4200e-003	0.0338	0.0000	537.0143	537.0143	0.0277	0.0000	537.7060
Worker	0.0961	0.0501	0.6353	2.5400e-003	0.2398	1.7300e-003	0.2416	0.0663	1.5900e-003	0.0678	0.0000	230.2968	230.2968	3.5400e-003	0.0000	230.3852
<b>Total</b>	<b>0.1320</b>	<b>1.5162</b>	<b>0.9319</b>	<b>8.1400e-003</b>	<b>0.3457</b>	<b>3.2100e-003</b>	<b>0.3489</b>	<b>0.0986</b>	<b>3.0100e-003</b>	<b>0.1016</b>	<b>0.0000</b>	<b>767.3111</b>	<b>767.3111</b>	<b>0.0312</b>	<b>0.0000</b>	<b>768.0912</b>

**3.4 Building Construction - 2029**

**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	0.3104	2.8306	3.6512	6.1200e-003		0.1198	0.1198		0.1127	0.1127	0.0000	526.4572	526.4572	0.1238	0.0000	529.5510
<b>Total</b>	<b>0.3104</b>	<b>2.8306</b>	<b>3.6512</b>	<b>6.1200e-003</b>		<b>0.1198</b>	<b>0.1198</b>		<b>0.1127</b>	<b>0.1127</b>	<b>0.0000</b>	<b>526.4572</b>	<b>526.4572</b>	<b>0.1238</b>	<b>0.0000</b>	<b>529.5510</b>

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**3.4 Building Construction - 2029**

**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	0.0310	1.2696	0.2549	4.8700e-003	0.1290	1.2800e-003	0.1303	0.0372	1.2200e-003	0.0384	0.0000	467.0524	467.0524	0.0235	0.0000	467.6401
Worker	0.0789	0.0403	0.5213	2.1600e-003	0.3206	1.4000e-003	0.3220	0.0851	1.2900e-003	0.0864	0.0000	195.6430	195.6430	2.8300e-003	0.0000	195.7137
<b>Total</b>	<b>0.1098</b>	<b>1.3099</b>	<b>0.7762</b>	<b>7.0300e-003</b>	<b>0.4496</b>	<b>2.6800e-003</b>	<b>0.4523</b>	<b>0.1224</b>	<b>2.5100e-003</b>	<b>0.1249</b>	<b>0.0000</b>	<b>662.6954</b>	<b>662.6954</b>	<b>0.0263</b>	<b>0.0000</b>	<b>663.3538</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	0.1530	3.2293	4.0573	6.1200e-003		0.2051	0.2051		0.2051	0.2051	0.0000	526.4565	526.4565	0.1238	0.0000	529.5504
<b>Total</b>	<b>0.1530</b>	<b>3.2293</b>	<b>4.0573</b>	<b>6.1200e-003</b>		<b>0.2051</b>	<b>0.2051</b>		<b>0.2051</b>	<b>0.2051</b>	<b>0.0000</b>	<b>526.4565</b>	<b>526.4565</b>	<b>0.1238</b>	<b>0.0000</b>	<b>529.5504</b>

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**3.4 Building Construction - 2029**

**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	0.0310	1.2696	0.2549	4.8700e-003	0.0924	1.2800e-003	0.0937	0.0282	1.2200e-003	0.0295	0.0000	467.0524	467.0524	0.0235	0.0000	467.6401
Worker	0.0789	0.0403	0.5213	2.1600e-003	0.2094	1.4000e-003	0.2108	0.0578	1.2900e-003	0.0591	0.0000	195.6430	195.6430	2.8300e-003	0.0000	195.7137
<b>Total</b>	<b>0.1098</b>	<b>1.3099</b>	<b>0.7762</b>	<b>7.0300e-003</b>	<b>0.3018</b>	<b>2.6800e-003</b>	<b>0.3045</b>	<b>0.0861</b>	<b>2.5100e-003</b>	<b>0.0886</b>	<b>0.0000</b>	<b>662.6954</b>	<b>662.6954</b>	<b>0.0263</b>	<b>0.0000</b>	<b>663.3538</b>

**3.5 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2006	1.9335	2.9690	4.6300e-003		0.0951	0.0951		0.0875	0.0875	0.0000	406.5386	406.5386	0.1315	0.0000	409.8257
Paving	6.7300e-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>0.2073</b>	<b>1.9335</b>	<b>2.9690</b>	<b>4.6300e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0875</b>	<b>0.0875</b>	<b>0.0000</b>	<b>406.5386</b>	<b>406.5386</b>	<b>0.1315</b>	<b>0.0000</b>	<b>409.8257</b>



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**3.5 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0108	6.4700e-003	0.0762	2.7000e-004	0.0335	1.9000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003	0.0000	24.1919	24.1919	4.6000e-004	0.0000	24.2035
<b>Total</b>	<b>0.0108</b>	<b>6.4700e-003</b>	<b>0.0762</b>	<b>2.7000e-004</b>	<b>0.0335</b>	<b>1.9000e-004</b>	<b>0.0337</b>	<b>8.8900e-003</b>	<b>1.7000e-004</b>	<b>9.0600e-003</b>	<b>0.0000</b>	<b>24.1919</b>	<b>24.1919</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>24.2035</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	0.1139	2.2929	3.5110	4.6300e-003		0.1237	0.1237		0.1237	0.1237	0.0000	406.5381	406.5381	0.1315	0.0000	409.8252
Paving	6.7300e-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>0.1206</b>	<b>2.2929</b>	<b>3.5110</b>	<b>4.6300e-003</b>		<b>0.1237</b>	<b>0.1237</b>		<b>0.1237</b>	<b>0.1237</b>	<b>0.0000</b>	<b>406.5381</b>	<b>406.5381</b>	<b>0.1315</b>	<b>0.0000</b>	<b>409.8252</b>

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**3.5 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0108	6.4700e-003	0.0762	2.7000e-004	0.0219	1.9000e-004	0.0221	6.0400e-003	1.7000e-004	6.2100e-003	0.0000	24.1919	24.1919	4.6000e-004	0.0000	24.2035
<b>Total</b>	<b>0.0108</b>	<b>6.4700e-003</b>	<b>0.0762</b>	<b>2.7000e-004</b>	<b>0.0219</b>	<b>1.9000e-004</b>	<b>0.0221</b>	<b>6.0400e-003</b>	<b>1.7000e-004</b>	<b>6.2100e-003</b>	<b>0.0000</b>	<b>24.1919</b>	<b>24.1919</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>24.2035</b>

**3.5 Paving - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2389	2.2398	3.8049	5.9500e-003		0.1092	0.1092		0.1005	0.1005	0.0000	522.5026	522.5026	0.1690	0.0000	526.7273
Paving	8.6600e-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>0.2475</b>	<b>2.2398</b>	<b>3.8049</b>	<b>5.9500e-003</b>		<b>0.1092</b>	<b>0.1092</b>		<b>0.1005</b>	<b>0.1005</b>	<b>0.0000</b>	<b>522.5026</b>	<b>522.5026</b>	<b>0.1690</b>	<b>0.0000</b>	<b>526.7273</b>

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**3.5 Paving - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0132	7.5700e-003	0.0908	3.3000e-004	0.0430	2.4000e-004	0.0433	0.0114	2.2000e-004	0.0117	0.0000	29.8590	29.8590	5.4000e-004	0.0000	29.8726
<b>Total</b>	<b>0.0132</b>	<b>7.5700e-003</b>	<b>0.0908</b>	<b>3.3000e-004</b>	<b>0.0430</b>	<b>2.4000e-004</b>	<b>0.0433</b>	<b>0.0114</b>	<b>2.2000e-004</b>	<b>0.0117</b>	<b>0.0000</b>	<b>29.8590</b>	<b>29.8590</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>29.8726</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	0.1464	2.9481	4.5142	5.9500e-003		0.1590	0.1590		0.1590	0.1590	0.0000	522.5019	522.5019	0.1690	0.0000	526.7266
Paving	8.6600e-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>0.1551</b>	<b>2.9481</b>	<b>4.5142</b>	<b>5.9500e-003</b>		<b>0.1590</b>	<b>0.1590</b>		<b>0.1590</b>	<b>0.1590</b>	<b>0.0000</b>	<b>522.5019</b>	<b>522.5019</b>	<b>0.1690</b>	<b>0.0000</b>	<b>526.7266</b>

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**3.5 Paving - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0132	7.5700e-003	0.0908	3.3000e-004	0.0281	2.4000e-004	0.0283	7.7600e-003	2.2000e-004	7.9800e-003	0.0000	29.8590	29.8590	5.4000e-004	0.0000	29.8726
<b>Total</b>	<b>0.0132</b>	<b>7.5700e-003</b>	<b>0.0908</b>	<b>3.3000e-004</b>	<b>0.0281</b>	<b>2.4000e-004</b>	<b>0.0283</b>	<b>7.7600e-003</b>	<b>2.2000e-004</b>	<b>7.9800e-003</b>	<b>0.0000</b>	<b>29.8590</b>	<b>29.8590</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>29.8726</b>

**3.5 Paving - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2389	2.2398	3.8049	5.9500e-003		0.1092	0.1092		0.1005	0.1005	0.0000	522.5026	522.5026	0.1690	0.0000	526.7273
Paving	8.6600e-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>0.2475</b>	<b>2.2398</b>	<b>3.8049</b>	<b>5.9500e-003</b>		<b>0.1092</b>	<b>0.1092</b>		<b>0.1005</b>	<b>0.1005</b>	<b>0.0000</b>	<b>522.5026</b>	<b>522.5026</b>	<b>0.1690</b>	<b>0.0000</b>	<b>526.7273</b>

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**3.5 Paving - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0125	6.9400e-003	0.0847	3.2000e-004	0.0430	2.3000e-004	0.0433	0.0114	2.1000e-004	0.0116	0.0000	28.7715	28.7715	4.9000e-004	0.0000	28.7839
<b>Total</b>	<b>0.0125</b>	<b>6.9400e-003</b>	<b>0.0847</b>	<b>3.2000e-004</b>	<b>0.0430</b>	<b>2.3000e-004</b>	<b>0.0433</b>	<b>0.0114</b>	<b>2.1000e-004</b>	<b>0.0116</b>	<b>0.0000</b>	<b>28.7715</b>	<b>28.7715</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>28.7839</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	0.1464	2.9481	4.5142	5.9500e-003		0.1590	0.1590		0.1590	0.1590	0.0000	522.5019	522.5019	0.1690	0.0000	526.7266
Paving	8.6600e-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>0.1551</b>	<b>2.9481</b>	<b>4.5142</b>	<b>5.9500e-003</b>		<b>0.1590</b>	<b>0.1590</b>		<b>0.1590</b>	<b>0.1590</b>	<b>0.0000</b>	<b>522.5019</b>	<b>522.5019</b>	<b>0.1690</b>	<b>0.0000</b>	<b>526.7266</b>

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**3.5 Paving - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0125	6.9400e-003	0.0847	3.2000e-004	0.0281	2.3000e-004	0.0283	7.7600e-003	2.1000e-004	7.9800e-003	0.0000	28.7715	28.7715	4.9000e-004	0.0000	28.7839
<b>Total</b>	<b>0.0125</b>	<b>6.9400e-003</b>	<b>0.0847</b>	<b>3.2000e-004</b>	<b>0.0281</b>	<b>2.3000e-004</b>	<b>0.0283</b>	<b>7.7600e-003</b>	<b>2.1000e-004</b>	<b>7.9800e-003</b>	<b>0.0000</b>	<b>28.7715</b>	<b>28.7715</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>28.7839</b>

**3.5 Paving - 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	0.2389	2.2398	3.8049	5.9500e-003		0.1092	0.1092		0.1005	0.1005	0.0000	522.5026	522.5026	0.1690	0.0000	526.7273
Paving	8.6600e-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>0.2475</b>	<b>2.2398</b>	<b>3.8049</b>	<b>5.9500e-003</b>		<b>0.1092</b>	<b>0.1092</b>		<b>0.1005</b>	<b>0.1005</b>	<b>0.0000</b>	<b>522.5026</b>	<b>522.5026</b>	<b>0.1690</b>	<b>0.0000</b>	<b>526.7273</b>

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**3.5 Paving - 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	0.0119	6.3700e-003	0.0792	3.1000e-004	0.0430	2.2000e-004	0.0433	0.0114	2.0000e-004	0.0116	0.0000	27.8182	27.8182	4.5000e-004	0.0000	27.8295
<b>Total</b>	<b>0.0119</b>	<b>6.3700e-003</b>	<b>0.0792</b>	<b>3.1000e-004</b>	<b>0.0430</b>	<b>2.2000e-004</b>	<b>0.0433</b>	<b>0.0114</b>	<b>2.0000e-004</b>	<b>0.0116</b>	<b>0.0000</b>	<b>27.8182</b>	<b>27.8182</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>27.8295</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	0.1464	2.9481	4.5142	5.9500e-003		0.1590	0.1590		0.1590	0.1590	0.0000	522.5019	522.5019	0.1690	0.0000	526.7266
Paving	8.6600e-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>0.1551</b>	<b>2.9481</b>	<b>4.5142</b>	<b>5.9500e-003</b>		<b>0.1590</b>	<b>0.1590</b>		<b>0.1590</b>	<b>0.1590</b>	<b>0.0000</b>	<b>522.5019</b>	<b>522.5019</b>	<b>0.1690</b>	<b>0.0000</b>	<b>526.7266</b>

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**3.5 Paving - 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	0.0119	6.3700e-003	0.0792	3.1000e-004	0.0281	2.2000e-004	0.0283	7.7600e-003	2.0000e-004	7.9600e-003	0.0000	27.8182	27.8182	4.5000e-004	0.0000	27.8295
<b>Total</b>	<b>0.0119</b>	<b>6.3700e-003</b>	<b>0.0792</b>	<b>3.1000e-004</b>	<b>0.0281</b>	<b>2.2000e-004</b>	<b>0.0283</b>	<b>7.7600e-003</b>	<b>2.0000e-004</b>	<b>7.9600e-003</b>	<b>0.0000</b>	<b>27.8182</b>	<b>27.8182</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>27.8295</b>

**3.5 Paving - 2028**

**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	0.2379	2.2312	3.7903	5.9300e-003		0.1088	0.1088		0.1001	0.1001	0.0000	520.5006	520.5006	0.1683	0.0000	524.7092
Paving	8.6200e-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>0.2466</b>	<b>2.2312</b>	<b>3.7903</b>	<b>5.9300e-003</b>		<b>0.1088</b>	<b>0.1088</b>		<b>0.1001</b>	<b>0.1001</b>	<b>0.0000</b>	<b>520.5006</b>	<b>520.5006</b>	<b>0.1683</b>	<b>0.0000</b>	<b>524.7092</b>



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**3.5 Paving - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0112	5.8500e-003	0.0742	3.0000e-004	0.0429	2.0000e-004	0.0431	0.0114	1.9000e-004	0.0116	0.0000	26.8829	26.8829	4.1000e-004	0.0000	26.8932
<b>Total</b>	<b>0.0112</b>	<b>5.8500e-003</b>	<b>0.0742</b>	<b>3.0000e-004</b>	<b>0.0429</b>	<b>2.0000e-004</b>	<b>0.0431</b>	<b>0.0114</b>	<b>1.9000e-004</b>	<b>0.0116</b>	<b>0.0000</b>	<b>26.8829</b>	<b>26.8829</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>26.8932</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	0.1458	2.9368	4.4969	5.9300e-003		0.1584	0.1584		0.1584	0.1584	0.0000	520.5000	520.5000	0.1683	0.0000	524.7085
Paving	8.6200e-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>0.1545</b>	<b>2.9368</b>	<b>4.4969</b>	<b>5.9300e-003</b>		<b>0.1584</b>	<b>0.1584</b>		<b>0.1584</b>	<b>0.1584</b>	<b>0.0000</b>	<b>520.5000</b>	<b>520.5000</b>	<b>0.1683</b>	<b>0.0000</b>	<b>524.7085</b>

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**3.5 Paving - 2028**

**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	0.0112	5.8500e-003	0.0742	3.0000e-004	0.0280	2.0000e-004	0.0282	7.7300e-003	1.9000e-004	7.9200e-003	0.0000	26.8829	26.8829	4.1000e-004	0.0000	26.8932
<b>Total</b>	<b>0.0112</b>	<b>5.8500e-003</b>	<b>0.0742</b>	<b>3.0000e-004</b>	<b>0.0280</b>	<b>2.0000e-004</b>	<b>0.0282</b>	<b>7.7300e-003</b>	<b>1.9000e-004</b>	<b>7.9200e-003</b>	<b>0.0000</b>	<b>26.8829</b>	<b>26.8829</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>26.8932</b>

**3.5 Paving - 2029**

**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	0.2077	1.9480	3.3092	5.1800e-003		0.0950	0.0950		0.0874	0.0874	0.0000	454.4371	454.4371	0.1470	0.0000	458.1115
Paving	7.5300e-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>0.2153</b>	<b>1.9480</b>	<b>3.3092</b>	<b>5.1800e-003</b>		<b>0.0950</b>	<b>0.0950</b>		<b>0.0874</b>	<b>0.0874</b>	<b>0.0000</b>	<b>454.4371</b>	<b>454.4371</b>	<b>0.1470</b>	<b>0.0000</b>	<b>458.1115</b>

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**3.5 Paving - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2000e-003	4.7000e-003	0.0609	2.5000e-004	0.0374	1.6000e-004	0.0376	9.9400e-003	1.5000e-004	0.0101	0.0000	22.8377	22.8377	3.3000e-004	0.0000	22.8460
<b>Total</b>	<b>9.2000e-003</b>	<b>4.7000e-003</b>	<b>0.0609</b>	<b>2.5000e-004</b>	<b>0.0374</b>	<b>1.6000e-004</b>	<b>0.0376</b>	<b>9.9400e-003</b>	<b>1.5000e-004</b>	<b>0.0101</b>	<b>0.0000</b>	<b>22.8377</b>	<b>22.8377</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>22.8460</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	0.1273	2.5640	3.9261	5.1800e-003		0.1383	0.1383		0.1383	0.1383	0.0000	454.4366	454.4366	0.1470	0.0000	458.1109
Paving	7.5300e-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>0.1349</b>	<b>2.5640</b>	<b>3.9261</b>	<b>5.1800e-003</b>		<b>0.1383</b>	<b>0.1383</b>		<b>0.1383</b>	<b>0.1383</b>	<b>0.0000</b>	<b>454.4366</b>	<b>454.4366</b>	<b>0.1470</b>	<b>0.0000</b>	<b>458.1109</b>

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**3.5 Paving - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2000e-003	4.7000e-003	0.0609	2.5000e-004	0.0244	1.6000e-004	0.0246	6.7500e-003	1.5000e-004	6.9000e-003	0.0000	22.8377	22.8377	3.3000e-004	0.0000	22.8460
<b>Total</b>	<b>9.2000e-003</b>	<b>4.7000e-003</b>	<b>0.0609</b>	<b>2.5000e-004</b>	<b>0.0244</b>	<b>1.6000e-004</b>	<b>0.0246</b>	<b>6.7500e-003</b>	<b>1.5000e-004</b>	<b>6.9000e-003</b>	<b>0.0000</b>	<b>22.8377</b>	<b>22.8377</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>22.8460</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.2330					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0367	0.2474	0.3675	6.0000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	51.8311	51.8311	2.9200e-003	0.0000	51.9040
<b>Total</b>	<b>6.2697</b>	<b>0.2474</b>	<b>0.3675</b>	<b>6.0000e-004</b>		<b>0.0124</b>	<b>0.0124</b>		<b>0.0124</b>	<b>0.0124</b>	<b>0.0000</b>	<b>51.8311</b>	<b>51.8311</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>51.9040</b>

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**3.6 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0108	6.4700e-003	0.0762	2.7000e-004	0.0335	1.9000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003	0.0000	24.1919	24.1919	4.6000e-004	0.0000	24.2035
<b>Total</b>	<b>0.0108</b>	<b>6.4700e-003</b>	<b>0.0762</b>	<b>2.7000e-004</b>	<b>0.0335</b>	<b>1.9000e-004</b>	<b>0.0337</b>	<b>8.8900e-003</b>	<b>1.7000e-004</b>	<b>9.0600e-003</b>	<b>0.0000</b>	<b>24.1919</b>	<b>24.1919</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>24.2035</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	6.2330					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.2755	0.3720	6.0000e-004		0.0193	0.0193		0.0193	0.0193	0.0000	51.8310	51.8310	2.9200e-003	0.0000	51.9040
<b>Total</b>	<b>6.2451</b>	<b>0.2755</b>	<b>0.3720</b>	<b>6.0000e-004</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>51.8310</b>	<b>51.8310</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>51.9040</b>

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**3.6 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0108	6.4700e-003	0.0762	2.7000e-004	0.0219	1.9000e-004	0.0221	6.0400e-003	1.7000e-004	6.2100e-003	0.0000	24.1919	24.1919	4.6000e-004	0.0000	24.2035
<b>Total</b>	<b>0.0108</b>	<b>6.4700e-003</b>	<b>0.0762</b>	<b>2.7000e-004</b>	<b>0.0219</b>	<b>1.9000e-004</b>	<b>0.0221</b>	<b>6.0400e-003</b>	<b>1.7000e-004</b>	<b>6.2100e-003</b>	<b>0.0000</b>	<b>24.1919</b>	<b>24.1919</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>24.2035</b>

**3.6 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	8.0139					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>8.0585</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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**3.6 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	0.0132	7.5700e-003	0.0908	3.3000e-004	0.0430	2.4000e-004	0.0433	0.0114	2.2000e-004	0.0117	0.0000	29.8590	29.8590	5.4000e-004	0.0000	29.8726
<b>Total</b>	<b>0.0132</b>	<b>7.5700e-003</b>	<b>0.0908</b>	<b>3.3000e-004</b>	<b>0.0430</b>	<b>2.4000e-004</b>	<b>0.0433</b>	<b>0.0114</b>	<b>2.2000e-004</b>	<b>0.0117</b>	<b>0.0000</b>	<b>29.8590</b>	<b>29.8590</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>29.8726</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	8.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3542	0.4783	7.8000e-004		0.0248	0.0248		0.0248	0.0248	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307
<b>Total</b>	<b>8.0294</b>	<b>0.3542</b>	<b>0.4783</b>	<b>7.8000e-004</b>		<b>0.0248</b>	<b>0.0248</b>		<b>0.0248</b>	<b>0.0248</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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**3.6 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	0.0132	7.5700e-003	0.0908	3.3000e-004	0.0281	2.4000e-004	0.0283	7.7600e-003	2.2000e-004	7.9800e-003	0.0000	29.8590	29.8590	5.4000e-004	0.0000	29.8726
<b>Total</b>	<b>0.0132</b>	<b>7.5700e-003</b>	<b>0.0908</b>	<b>3.3000e-004</b>	<b>0.0281</b>	<b>2.4000e-004</b>	<b>0.0283</b>	<b>7.7600e-003</b>	<b>2.2000e-004</b>	<b>7.9800e-003</b>	<b>0.0000</b>	<b>29.8590</b>	<b>29.8590</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>29.8726</b>

**3.6 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	8.0139					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>8.0585</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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**3.6 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	0.0125	6.9400e-003	0.0847	3.2000e-004	0.0430	2.3000e-004	0.0433	0.0114	2.1000e-004	0.0116	0.0000	28.7715	28.7715	4.9000e-004	0.0000	28.7839
<b>Total</b>	<b>0.0125</b>	<b>6.9400e-003</b>	<b>0.0847</b>	<b>3.2000e-004</b>	<b>0.0430</b>	<b>2.3000e-004</b>	<b>0.0433</b>	<b>0.0114</b>	<b>2.1000e-004</b>	<b>0.0116</b>	<b>0.0000</b>	<b>28.7715</b>	<b>28.7715</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>28.7839</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	8.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3542	0.4783	7.8000e-004		0.0248	0.0248		0.0248	0.0248	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307
<b>Total</b>	<b>8.0294</b>	<b>0.3542</b>	<b>0.4783</b>	<b>7.8000e-004</b>		<b>0.0248</b>	<b>0.0248</b>		<b>0.0248</b>	<b>0.0248</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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**3.6 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	0.0125	6.9400e-003	0.0847	3.2000e-004	0.0281	2.3000e-004	0.0283	7.7600e-003	2.1000e-004	7.9800e-003	0.0000	28.7715	28.7715	4.9000e-004	0.0000	28.7839
<b>Total</b>	<b>0.0125</b>	<b>6.9400e-003</b>	<b>0.0847</b>	<b>3.2000e-004</b>	<b>0.0281</b>	<b>2.3000e-004</b>	<b>0.0283</b>	<b>7.7600e-003</b>	<b>2.1000e-004</b>	<b>7.9800e-003</b>	<b>0.0000</b>	<b>28.7715</b>	<b>28.7715</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>28.7839</b>

**3.6 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	8.0139					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>8.0585</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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**3.6 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	0.0119	6.3700e-003	0.0792	3.1000e-004	0.0430	2.2000e-004	0.0433	0.0114	2.0000e-004	0.0116	0.0000	27.8182	27.8182	4.5000e-004	0.0000	27.8295
<b>Total</b>	<b>0.0119</b>	<b>6.3700e-003</b>	<b>0.0792</b>	<b>3.1000e-004</b>	<b>0.0430</b>	<b>2.2000e-004</b>	<b>0.0433</b>	<b>0.0114</b>	<b>2.0000e-004</b>	<b>0.0116</b>	<b>0.0000</b>	<b>27.8182</b>	<b>27.8182</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>27.8295</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	8.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3542	0.4783	7.8000e-004		0.0248	0.0248		0.0248	0.0248	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307
<b>Total</b>	<b>8.0294</b>	<b>0.3542</b>	<b>0.4783</b>	<b>7.8000e-004</b>		<b>0.0248</b>	<b>0.0248</b>		<b>0.0248</b>	<b>0.0248</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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**3.6 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	0.0119	6.3700e-003	0.0792	3.1000e-004	0.0281	2.2000e-004	0.0283	7.7600e-003	2.0000e-004	7.9600e-003	0.0000	27.8182	27.8182	4.5000e-004	0.0000	27.8295
<b>Total</b>	<b>0.0119</b>	<b>6.3700e-003</b>	<b>0.0792</b>	<b>3.1000e-004</b>	<b>0.0281</b>	<b>2.2000e-004</b>	<b>0.0283</b>	<b>7.7600e-003</b>	<b>2.0000e-004</b>	<b>7.9600e-003</b>	<b>0.0000</b>	<b>27.8182</b>	<b>27.8182</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>27.8295</b>

**3.6 Architectural Coating - 2028**

**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	7.9832					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0444	0.2978	0.4704	7.7000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.3846	66.3846	3.6200e-003	0.0000	66.4751
<b>Total</b>	<b>8.0276</b>	<b>0.2978</b>	<b>0.4704</b>	<b>7.7000e-004</b>		<b>0.0134</b>	<b>0.0134</b>		<b>0.0134</b>	<b>0.0134</b>	<b>0.0000</b>	<b>66.3846</b>	<b>66.3846</b>	<b>3.6200e-003</b>	<b>0.0000</b>	<b>66.4751</b>

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**3.6 Architectural Coating - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0112	5.8500e-003	0.0742	3.0000e-004	0.0429	2.0000e-004	0.0431	0.0114	1.9000e-004	0.0116	0.0000	26.8829	26.8829	4.1000e-004	0.0000	26.8932
<b>Total</b>	<b>0.0112</b>	<b>5.8500e-003</b>	<b>0.0742</b>	<b>3.0000e-004</b>	<b>0.0429</b>	<b>2.0000e-004</b>	<b>0.0431</b>	<b>0.0114</b>	<b>1.9000e-004</b>	<b>0.0116</b>	<b>0.0000</b>	<b>26.8829</b>	<b>26.8829</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>26.8932</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	7.9832					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3528	0.4764	7.7000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	66.3845	66.3845	3.6200e-003	0.0000	66.4751
<b>Total</b>	<b>7.9987</b>	<b>0.3528</b>	<b>0.4764</b>	<b>7.7000e-004</b>		<b>0.0247</b>	<b>0.0247</b>		<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>66.3845</b>	<b>66.3845</b>	<b>3.6200e-003</b>	<b>0.0000</b>	<b>66.4751</b>

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**3.6 Architectural Coating - 2028**

**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	0.0112	5.8500e-003	0.0742	3.0000e-004	0.0280	2.0000e-004	0.0282	7.7300e-003	1.9000e-004	7.9200e-003	0.0000	26.8829	26.8829	4.1000e-004	0.0000	26.8932
<b>Total</b>	<b>0.0112</b>	<b>5.8500e-003</b>	<b>0.0742</b>	<b>3.0000e-004</b>	<b>0.0280</b>	<b>2.0000e-004</b>	<b>0.0282</b>	<b>7.7300e-003</b>	<b>1.9000e-004</b>	<b>7.9200e-003</b>	<b>0.0000</b>	<b>26.8829</b>	<b>26.8829</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>26.8932</b>

**3.6 Architectural Coating - 2029**

**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	6.9700					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0388	0.2600	0.4107	6.7000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	57.9589	57.9589	3.1600e-003	0.0000	58.0379
<b>Total</b>	<b>7.0088</b>	<b>0.2600</b>	<b>0.4107</b>	<b>6.7000e-004</b>		<b>0.0117</b>	<b>0.0117</b>		<b>0.0117</b>	<b>0.0117</b>	<b>0.0000</b>	<b>57.9589</b>	<b>57.9589</b>	<b>3.1600e-003</b>	<b>0.0000</b>	<b>58.0379</b>

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**3.6 Architectural Coating - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2000e-003	4.7000e-003	0.0609	2.5000e-004	0.0374	1.6000e-004	0.0376	9.9400e-003	1.5000e-004	0.0101	0.0000	22.8377	22.8377	3.3000e-004	0.0000	22.8460
<b>Total</b>	<b>9.2000e-003</b>	<b>4.7000e-003</b>	<b>0.0609</b>	<b>2.5000e-004</b>	<b>0.0374</b>	<b>1.6000e-004</b>	<b>0.0376</b>	<b>9.9400e-003</b>	<b>1.5000e-004</b>	<b>0.0101</b>	<b>0.0000</b>	<b>22.8377</b>	<b>22.8377</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>22.8460</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	6.9700					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0135	0.3080	0.4160	6.7000e-004		0.0216	0.0216		0.0216	0.0216	0.0000	57.9588	57.9588	3.1600e-003	0.0000	58.0378
<b>Total</b>	<b>6.9835</b>	<b>0.3080</b>	<b>0.4160</b>	<b>6.7000e-004</b>		<b>0.0216</b>	<b>0.0216</b>		<b>0.0216</b>	<b>0.0216</b>	<b>0.0000</b>	<b>57.9588</b>	<b>57.9588</b>	<b>3.1600e-003</b>	<b>0.0000</b>	<b>58.0378</b>

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**3.6 Architectural Coating - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2000e-003	4.7000e-003	0.0609	2.5000e-004	0.0244	1.6000e-004	0.0246	6.7500e-003	1.5000e-004	6.9000e-003	0.0000	22.8377	22.8377	3.3000e-004	0.0000	22.8460
<b>Total</b>	<b>9.2000e-003</b>	<b>4.7000e-003</b>	<b>0.0609</b>	<b>2.5000e-004</b>	<b>0.0244</b>	<b>1.6000e-004</b>	<b>0.0246</b>	<b>6.7500e-003</b>	<b>1.5000e-004</b>	<b>6.9000e-003</b>	<b>0.0000</b>	<b>22.8377</b>	<b>22.8377</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>22.8460</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Free-Standing Discount Superstore	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Manufacturing	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Free-Standing Discount	16.60	8.40	6.90	13.20	67.80	19.00	47.5	35.5	17
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Free-Standing Discount Superstore	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Industrial Park	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Manufacturing	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Other Asphalt Surfaces	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Other Non-Asphalt Surfaces	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Refrigerated Warehouse-No Rail	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Strip Mall	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Unrefrigerated Warehouse-No Rail	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	21,986.3504	21,986.3504	1.2685	0.2625	22,096.2712
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22,570.7668	22,570.7668	1.3022	0.2694	22,683.6094
NaturalGas Mitigated	0.6502	5.9113	4.9655	0.0355		0.4493	0.4493		0.4493	0.4493	0.0000	6,435.1184	6,435.1184	0.1233	0.1180	6,473.3591
NaturalGas Unmitigated	0.7048	6.4071	5.3819	0.0384		0.4869	0.4869		0.4869	0.4869	0.0000	6,974.8491	6,974.8491	0.1337	0.1279	7,016.2971

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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					
Free-Standing Discount Superstore	222000	1.2000e-003	0.0109	9.1400e-003	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	11.8468	11.8468	2.3000e-004	2.2000e-004	11.9172
Industrial Park	2.22649e+006	0.0120	0.1091	0.0917	6.5000e-004		8.2900e-003	8.2900e-003		8.2900e-003	8.2900e-003	0.0000	118.8138	118.8138	2.2800e-003	2.1800e-003	119.5199
Manufacturing	2.7541e+007	0.1485	1.3501	1.1340	8.1000e-003		0.1026	0.1026		0.1026	0.1026	0.0000	1,469.6951	1,469.6951	0.0282	0.0269	1,478.4287
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	8.77516e+007	0.4732	4.3016	3.6133	0.0258		0.3269	0.3269		0.3269	0.3269	0.0000	4,682.7588	4,682.7588	0.0898	0.0859	4,710.5861
Strip Mall	48769	2.6000e-004	2.3900e-003	2.0100e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.6025	2.6025	5.0000e-005	5.0000e-005	2.6180
Unrefrigerated Warehouse-No Rail	6.02275e+006	0.0650	0.5905	0.4960	3.5400e-003		0.0449	0.0449		0.0449	0.0449	0.0000	642.7937	642.7937	0.0123	0.0118	646.6135
Unrefrigerated Warehouse-No Rail	868351	4.6800e-003	0.0426	0.0358	2.6000e-004		3.2400e-003	3.2400e-003		3.2400e-003	3.2400e-003	0.0000	46.3385	46.3385	8.9000e-004	8.5000e-004	46.6139
<b>Total</b>		<b>0.7048</b>	<b>6.4071</b>	<b>5.3819</b>	<b>0.0384</b>		<b>0.4869</b>	<b>0.4869</b>		<b>0.4869</b>	<b>0.4869</b>	<b>0.0000</b>	<b>6,974.8491</b>	<b>6,974.8491</b>	<b>0.1337</b>	<b>0.1279</b>	<b>7,016.2971</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					
Free-Standing Discount Superstore	164400	8.9000e-004	8.0600e-003	6.7700e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.7730	8.7730	1.7000e-004	1.6000e-004	8.8251
Industrial Park	1.55854e+006	8.4000e-003	0.0764	0.0642	4.6000e-004		5.8100e-003	5.8100e-003		5.8100e-003	5.8100e-003	0.0000	83.1697	83.1697	1.5900e-003	1.5200e-003	83.6639
Manufacturing	2.36349e+007	0.1274	1.1586	0.9732	6.9500e-003		0.0881	0.0881		0.0881	0.0881	0.0000	1,261.2508	1,261.2508	0.0242	0.0231	1,268.7458
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	8.60986e+007	0.4643	4.2205	3.5452	0.0253		0.3208	0.3208		0.3208	0.3208	0.0000	4,594.5499	4,594.5499	0.0881	0.0842	4,621.8530
Strip Mall	36115.4	1.9000e-004	1.7700e-003	1.4900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.9273	1.9273	4.0000e-005	4.0000e-005	1.9387
Unrefrigerated Warehouse-No Rail	4.24263e+006	0.0458	0.4159	0.3494	2.5000e-003		0.0316	0.0316		0.0316	0.0316	0.0000	452.8054	452.8054	8.6800e-003	8.3000e-003	455.4962
Unrefrigerated Warehouse-No Rail	611696	3.3000e-003	0.0300	0.0252	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6424	32.6424	6.3000e-004	6.0000e-004	32.8364
<b>Total</b>		<b>0.6502</b>	<b>5.9113</b>	<b>4.9655</b>	<b>0.0355</b>		<b>0.4493</b>	<b>0.4493</b>		<b>0.4493</b>	<b>0.4493</b>	<b>0.0000</b>	<b>6,435.1184</b>	<b>6,435.1184</b>	<b>0.1233</b>	<b>0.1180</b>	<b>6,473.3591</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Free-Standing Discount Superstore	1.263e+006	287.9617	0.0166	3.4400e-003	289.4014
Industrial Park	6.1084e+006	1,392.7046	0.0804	0.0166	1,399.6674
Manufacturing	8.60393e+006	1,961.6801	0.1132	0.0234	1,971.4875
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.77294e+007	15,442.1908	0.8909	0.1843	15,519.3941
Strip Mall	277456	63.2594	3.6500e-003	7.6000e-004	63.5757
Unrefrigerated Warehouse-No Rail	1.00951e+006	230.1669	0.0133	2.7500e-003	231.3176
Unrefrigerated Warehouse-No Rail	7.00182e+006	3,192.8034	0.1842	0.0381	3,208.7658
<b>Total</b>		<b>22,570.7668</b>	<b>1.3022</b>	<b>0.2694</b>	<b>22,683.6094</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Free-Standing Discount Superstore	1.1256e+006	256.6348	0.0148	3.0600e-003	257.9178
Industrial Park	5.51745e+006	1,257.9692	0.0726	0.0150	1,264.2584
Manufacturing	8.04446e+006	1,834.1225	0.1058	0.0219	1,843.2922
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.71903e+007	15,319.2717	0.8838	0.1829	15,395.8605
Strip Mall	247272	56.3775	3.2500e-003	6.7000e-004	56.6594
Unrefrigerated Warehouse-No Rail	6.67249e+006	3,042.6334	0.1755	0.0363	3,057.8451
Unrefrigerated Warehouse-No Rail	962030	219.3412	0.0127	2.6200e-003	220.4378
<b>Total</b>		<b>21,986.3504</b>	<b>1.2685</b>	<b>0.2624</b>	<b>22,096.2712</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	11.9617	1.1100e-003	0.1236	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	0.2416	0.2416	6.2000e-004	0.0000	0.2572
Unmitigated	11.9617	1.1100e-003	0.1236	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	0.2416	0.2416	6.2000e-004	0.0000	0.2572

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	4.5228					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.4276					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0113	1.1100e-003	0.1236	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	0.2416	0.2416	6.2000e-004	0.0000	0.2572
<b>Total</b>	<b>11.9617</b>	<b>1.1100e-003</b>	<b>0.1236</b>	<b>1.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>0.2416</b>	<b>0.2416</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>0.2572</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	4.5228					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.4276					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0113	1.1100e-003	0.1236	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	0.2416	0.2416	6.2000e-004	0.0000	0.2572
<b>Total</b>	<b>11.9617</b>	<b>1.1100e-003</b>	<b>0.1236</b>	<b>1.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>0.2416</b>	<b>0.2416</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>0.2572</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Stoneridge Commerce Center - Primary Land Use Plan - Riverside-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,179.4548	11.7497	0.2887	1,559.2321
Unmitigated	1,179.4548	11.7497	0.2887	1,559.2321

Stoneridge Commerce Center - Primary Land Use Plan - Riverside-South Coast County, Annual

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Free-Standing Discount Superstore	5.33 / 0.246	18.1376	0.1746	4.3000e-003	23.7839
Industrial Park	15.8648 / 0	52.1322	0.5197	0.0128	68.9291
Manufacturing	31.0249 / 0	101.9485	1.0163	0.0250	134.7962
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	62.7543 / 0	206.2118	2.0556	0.0505	272.6529
Strip Mall	1.17 / 0.054	3.9814	0.0383	9.4000e-004	5.2209
Unrefrigerated Warehouse-No Rail	242.556 / 0	797.0432	7.9452	0.1952	1,053.8492
<b>Total</b>		<b>1,179.4548</b>	<b>11.7497</b>	<b>0.2887</b>	<b>1,559.2321</b>

Stoneridge Commerce Center - Primary Land Use Plan - Riverside-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Free-Standing Discount Superstore	5.33 / 0.246	18.1376	0.1746	4.3000e-003	23.7839
Industrial Park	15.8648 / 0	52.1322	0.5197	0.0128	68.9291
Manufacturing	31.0249 / 0	101.9485	1.0163	0.0250	134.7962
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	62.7543 / 0	206.2118	2.0556	0.0505	272.6529
Strip Mall	1.17 / 0.054	3.9814	0.0383	9.4000e-004	5.2209
Unrefrigerated Warehouse-No Rail	242.556 / 0	797.0432	7.9452	0.1952	1,053.8492
<b>Total</b>		<b>1,179.4548</b>	<b>11.7497</b>	<b>0.2887</b>	<b>1,559.2321</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Stoneridge Commerce Center - Primary Land Use Plan - Riverside-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,004.198 8	118.4448	0.0000	4,965.317 7
Unmitigated	2,004.198 8	118.4448	0.0000	4,965.317 7

Stoneridge Commerce Center - Primary Land Use Plan - Riverside-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Free-Standing Discount Superstore	430.07	87.3003	5.1593	0.0000	216.2829
Industrial Park	795.63	161.5057	9.5447	0.0000	400.1235
Manufacturing	1051.12	213.3679	12.6097	0.0000	528.6098
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1593.64	323.4945	19.1180	0.0000	801.4440
Strip Mall	23.07	4.6830	0.2768	0.0000	11.6019
Unrefrigerated Warehouse-No Rail	5979.81	1,213.8474	71.7363	0.0000	3,007.2555
<b>Total</b>		<b>2,004.1988</b>	<b>118.4448</b>	<b>0.0000</b>	<b>4,965.3177</b>

Stoneridge Commerce Center - Primary Land Use Plan - Riverside-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Free-Standing Discount Superstore	430.07	87.3003	5.1593	0.0000	216.2829
Industrial Park	795.63	161.5057	9.5447	0.0000	400.1235
Manufacturing	1051.12	213.3679	12.6097	0.0000	528.6098
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1593.64	323.4945	19.1180	0.0000	801.4440
Strip Mall	23.07	4.6830	0.2768	0.0000	11.6019
Unrefrigerated Warehouse-No Rail	5979.81	1,213.8474	71.7363	0.0000	3,007.2555
<b>Total</b>		<b>2,004.1988</b>	<b>118.4448</b>	<b>0.0000</b>	<b>4,965.3177</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**

**Fire Pumps and Emergency Generators**

Stoneridge Commerce Center - Primary Land Use Plan - Riverside-South Coast County, Annual

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX 5.2:**  
**EMFAC2017 MODEL OUTPUTS**

Source: EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

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

Region	Calendar Yr	Vehicle Cat	VMT	Fuel Consumption		
Riverside (SC)	2020	HHDT	495.6972	0.124168	HHDT	6.782552
Riverside (SC)	2020	HHDT	1849784	270.3842	LDA	31.03287
Riverside (SC)	2020	HHDT	7927.188	3.460299	LDT1	26.10346
Riverside (SC)	2020	LDA	22811940	744.9245	LDT2	24.24608
Riverside (SC)	2020	LDA	211707.5	4.252687	LHDT1	14.1089
Riverside (SC)	2020	LDA	225470.4	0	LHDT2	14.81261
Riverside (SC)	2020	LDT1	2171444	83.37784	MCY	38.12087
Riverside (SC)	2020	LDT1	703.6072	0.027947	MDV	19.52887
Riverside (SC)	2020	LDT1	5032.136	0	MH	5.960946
Riverside (SC)	2020	LDT2	6953901	288.5007	MHDT	9.85853
Riverside (SC)	2020	LDT2	38380.62	1.036808	OBUS	6.271514
Riverside (SC)	2020	LDT2	27869.84	0	SBUS	7.849443
Riverside (SC)	2020	LHDT1	522854.2	49.16043	UBUS	4.948738
Riverside (SC)	2020	LHDT1	546497.8	26.63228		
Riverside (SC)	2020	LHDT2	74925.36	8.050831	LDA	31.03287
Riverside (SC)	2020	LHDT2	210205.5	11.19837	LDT1	26.10346
Riverside (SC)	2020	MCY	186161.7	4.883458	LDT2	24.24608
Riverside (SC)	2020	MDV	5759435	297.2116	MDV	19.52887
Riverside (SC)	2020	MDV	122611.3	4.491895	LHDT1	14.1089
Riverside (SC)	2020	MDV	9882.785	0	LHDT2	14.81261
Riverside (SC)	2020	MH	42692.11	8.402718	MHDT	9.85853
Riverside (SC)	2020	MH	16646.27	1.551805	HHDT	6.782552
Riverside (SC)	2020	MHDT	51275.62	10.04377	OBUS	6.271514
Riverside (SC)	2020	MHDT	722759.9	68.47052	UBUS	4.948738
Riverside (SC)	2020	OBUS	16098.84	3.193257	MCY	38.12087
Riverside (SC)	2020	OBUS	15117.16	1.784169	SBUS	7.849443
Riverside (SC)	2020	SBUS	14360.46	1.634422	MH	5.960946
Riverside (SC)	2020	SBUS	25716.68	3.471308		
Riverside (SC)	2020	UBUS	22881.2	3.711979		
Riverside (SC)	2020	UBUS	58.5719	0.006566		
Riverside (SC)	2020	UBUS	1.251703	0		
Riverside (SC)	2020	UBUS	26538.11	6.279789		

Source: EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: County

Region: Riverside

Calendar Year: 2021

Season: Annual

Vehicle Classification: EMFAC2007 Categories

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

Region	Calendar Year	Vehicle Category	VMT	Fuel Consumption	Category	MPG
Riverside (SC)	2021	HHDT	478.7903	0.116984	HHDT	6.89
Riverside (SC)	2021	HHDT	1897940	272.9191	LDA	31.83
Riverside (SC)	2021	HHDT	9360.06	4.010789	LDT1	26.78
Riverside (SC)	2021	LDA	23296505	743.7333	LDT2	25.09
Riverside (SC)	2021	LDA	226458.8	4.453455	LHDT1	14.22
Riverside (SC)	2021	LDA	292574.3	0	LHDT2	14.92
Riverside (SC)	2021	LDT1	2219909	83.25303	MCY	37.97
Riverside (SC)	2021	LDT1	650.1857	0.025602	MDV	20.08
Riverside (SC)	2021	LDT1	9256.811	0	MH	6.02
Riverside (SC)	2021	LDT2	7067860	283.861	MHDT	10.05
Riverside (SC)	2021	LDT2	43422.05	1.140187	OBUS	6.40
Riverside (SC)	2021	LDT2	38876.44	0	SBUS	7.92
Riverside (SC)	2021	LHDT1	510348.4	47.71514	UBUS	4.95
Riverside (SC)	2021	LHDT1	537960.6	25.9859		
Riverside (SC)	2021	LHDT2	74170.49	7.924831	LDA	31.83
Riverside (SC)	2021	LHDT2	207780.3	10.96839	LDT1	26.78
Riverside (SC)	2021	MCY	183349	4.828545	LDT2	25.09
Riverside (SC)	2021	MDV	5679895	285.6583	MDV	20.08
Riverside (SC)	2021	MDV	130330.6	4.661607	LHDT1	14.22
Riverside (SC)	2021	MDV	18657.55	0	LHDT2	14.92
Riverside (SC)	2021	MH	40199.39	7.865863	MHDT	10.05
Riverside (SC)	2021	MH	16101.15	1.490736	HHDT	6.89
Riverside (SC)	2021	MHDT	52658.62	10.17367	OBUS	6.40
Riverside (SC)	2021	MHDT	732039.4	67.89709	UBUS	4.95
Riverside (SC)	2021	OBUS	15660.95	3.076576	MCY	37.97
Riverside (SC)	2021	OBUS	15466.2	1.786531	SBUS	7.92
Riverside (SC)	2021	SBUS	14544.86	1.649581	MH	6.02
Riverside (SC)	2021	SBUS	26346.93	3.516064		
Riverside (SC)	2021	UBUS	23017.82	3.736316		
Riverside (SC)	2021	UBUS	58.5719	0.006566		
Riverside (SC)	2021	UBUS	1.251703	0		
Riverside (SC)	2021	UBUS	26696.92	6.314839		

Source: EMFAC2017 (v1.0.2) Emissions Inventory

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Region Type: County

Region: Riverside

Calendar Year: 2022

Season: Annual

Vehicle Classification: EMFAC2007 Categories

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

Region	Calendar Yr	Vehicle Cat	Population	VMT	Fuel Consumption	Category	MPG
Riverside (SC)	2022	HHDT	8.256088	469.2901	0.111263	HHDT	7.062137
Riverside (SC)	2022	HHDT	27250.49	1943054	272.0963	LDA	32.76922
Riverside (SC)	2022	HHDT	278.9619	10718.14	4.513402	LDT1	27.55223
Riverside (SC)	2022	LDA	750300.9	23700815	737.3963	LDT2	26.03077
Riverside (SC)	2022	LDA	6761.576	239612.1	4.599544	LHDT1	14.39127
Riverside (SC)	2022	LDA	10150.83	374200.2	0	LHDT2	15.07892
Riverside (SC)	2022	LDT1	80587.48	2261930	82.62273	MCY	37.93004
Riverside (SC)	2022	LDT1	42.61598	601.668	0.023368	MDV	20.73738
Riverside (SC)	2022	LDT1	312.6717	14552.99	0	MH	6.092828
Riverside (SC)	2022	LDT2	246596.5	7165411	277.8915	MHDT	10.37123
Riverside (SC)	2022	LDT2	1288.993	48028.56	1.225312	OBUS	6.573606
Riverside (SC)	2022	LDT2	1692.169	52184.74	0	SBUS	7.986271
Riverside (SC)	2022	LHDT1	20885.97	499086.1	46.2022	UBUS	4.95007
Riverside (SC)	2022	LHDT1	19999.78	530194.9	25.31902		
Riverside (SC)	2022	LHDT2	3292.647	73474.64	7.773729	LDA	32.76922
Riverside (SC)	2022	LHDT2	7676.541	205588.3	10.7331	LDT1	27.55223
Riverside (SC)	2022	MCY	35659.72	180969.6	4.771142	LDT2	26.03077
Riverside (SC)	2022	MDV	208791.4	5597390	273.1678	MDV	20.73738
Riverside (SC)	2022	MDV	3985.675	137165.9	4.774807	LHDT1	14.39127
Riverside (SC)	2022	MDV	787.1077	29245.37	0	LHDT2	15.07892
Riverside (SC)	2022	MH	6261.086	37965.37	7.358586	MHDT	10.37123
Riverside (SC)	2022	MH	2593.425	15617.97	1.435909	HHDT	7.062137
Riverside (SC)	2022	MHDT	1963.204	54049.91	10.27354	OBUS	6.573606
Riverside (SC)	2022	MHDT	15756.36	740259.9	66.31429	UBUS	4.95007
Riverside (SC)	2022	OBUS	589.4801	15270.7	2.957856	MCY	37.93004
Riverside (SC)	2022	OBUS	347.993	15788.6	1.766993	SBUS	7.986271
Riverside (SC)	2022	SBUS	475.4713	14725.73	1.664499	MH	6.092828
Riverside (SC)	2022	SBUS	1131.956	26989.84	3.558911		
Riverside (SC)	2022	UBUS	163.4848	23154.43	3.75606		
Riverside (SC)	2022	UBUS	1.105798	58.5719	0.006566		
Riverside (SC)	2022	UBUS	5.058469	1.251703	0		
Riverside (SC)	2022	UBUS	306.6216	26855.73	6.35238		

Source: EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2030

Season: Annual

Vehicle Classification: EMFAC2007 Categories

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

Region	Calendar Yr	Vehicle Cat	Population	VMT	Fuel Consumption		
Riverside (SC)	2030	HHDT	6.067137	575.8782	0.112023	HHDT	8.417939
Riverside (SC)	2030	HHDT	17773.3	2271030	264.2077	LDA	40.9842
Riverside (SC)	2030	HHDT	532.474	21687.83	8.109718	LDT1	34.07774
Riverside (SC)	2030	LDA	715227.8	26282325	672.5523	LDT2	33.73716
Riverside (SC)	2030	LDA	8217.151	311906.7	4.995669	LHDT1	16.22746
Riverside (SC)	2030	LDA	31589.04	1174529	0	LHDT2	16.87059
Riverside (SC)	2030	LDT1	73433.16	2574226	77.4536	MCY	37.74003
Riverside (SC)	2030	LDT1	9.294708	328.9267	0.010112	MDV	27.0457
Riverside (SC)	2030	LDT1	1718.405	65233.46	0	MH	6.929284
Riverside (SC)	2030	LDT2	221857.7	7975748	242.1264	MHDT	11.93304
Riverside (SC)	2030	LDT2	1944.648	74491.26	1.578488	OBUS	7.770802
Riverside (SC)	2030	LDT2	6596.872	171672	0	SBUS	8.740599
Riverside (SC)	2030	LHDT1	14719.7	462837.1	38.13034	UBUS	5.158098
Riverside (SC)	2030	LHDT1	16082.32	495405.8	20.92034		
Riverside (SC)	2030	LHDT2	2310.879	71347.95	6.744077	LDA	40.9842
Riverside (SC)	2030	LHDT2	6520.499	195813	9.091823	LDT1	34.07774
Riverside (SC)	2030	MCY	30660.06	174391.9	4.620874	LDT2	33.73716
Riverside (SC)	2030	MDV	159091.3	5362565	204.3155	MDV	27.0457
Riverside (SC)	2030	MDV	4876.505	176358.1	5.031249	LHDT1	16.22746
Riverside (SC)	2030	MDV	4670.491	123005.7	0	LHDT2	16.87059
Riverside (SC)	2030	MH	3513.615	27586.63	4.761984	MHDT	11.93304
Riverside (SC)	2030	MH	1869.681	13149.06	1.11679	HHDT	8.417939
Riverside (SC)	2030	MHDT	1662.069	65180.36	10.83823	OBUS	7.770802
Riverside (SC)	2030	MHDT	13927.58	791350.3	60.93984	UBUS	5.158098
Riverside (SC)	2030	OBUS	439.781	14096.42	2.37656	MCY	37.74003
Riverside (SC)	2030	OBUS	276.915	18004.47	1.754403	SBUS	8.740599
Riverside (SC)	2030	SBUS	499.4966	16119.68	1.749767	MH	6.929284
Riverside (SC)	2030	SBUS	1026.146	32699.81	3.835605		
Riverside (SC)	2030	UBUS	172.2178	24247.37	3.499317		
Riverside (SC)	2030	UBUS	0	0	0		
Riverside (SC)	2030	UBUS	214.9729	28186.03	6.665941		

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## **APPENDIX 6.1:**

### **ALTERNATIVE LAND USE CALCEEMOD ANNUAL EMISSIONS MODEL OUTPUT**



Stoneridge Commerce Center Operational Mobile Source Emissions

Alternative Land Use Plan

Vehicle Class	Daily VMT <sup>1</sup>	Pollutant	Run Emission Rate <sup>2</sup> (Gram/Mile)	Idle Emission Rate (Gram/Vehicle/Day)	Start Emission Rate <sup>2</sup> (Grams/Start/Day)	Total Grams Daily	Metric Tons Daily	CO2e Annually
Passenger Automobiles	183027	CO2	513.197800	124.3677	17.10123	96388369.05	96.3884	
		CH4	0.231945	0.019008	0.022121	42828.15	0.0428	36527
		N2O	0.044348	0.016201	0.012167	8437.29	0.0084	

<sup>1</sup> Daily VMT calculated per CalLEMod v 2016.3.2, which provides average distance traveled per trip type.

<sup>2</sup> Start emissions account for 4 automobile starts daily.

All emission factors sourced from EMFAC2017.

Vehicle Class	Daily VMT <sup>1</sup>	Pollutant	Run Emission Rate <sup>2</sup> (Gram/Mile)	Idle Emission Rate (Gram/Vehicle/Day)	Start Emission Rate <sup>2</sup> (Grams/Start/Day)	Total Grams Daily	Metric Tons Daily	CO2e Annually
Heavy Duty Trucks	207515	CO2	1120.405063	11022.54061	0	274937637.98	274.9376	
		CH4	0.001104	0.234962	0	1133.70	0.0011	105253
		N2O	0.176112	1.73259	0	43216.35	0.0432	

<sup>1</sup> In order to more accurately account for the trip distribution patterns of freight trucks, the average trip length is calculated at 53.9 miles, which represents the average distance between the Project site and the Port of Los Angeles/Long Beach, the Project site and the Banning Pass, the Project Site and the San Diego County line, the Project site and the Cajon Pass, and the Project site and downtown Los Angeles.

<sup>2</sup> Start emissions account for 4 automobile starts daily.

All emission factors sourced from EMFAC2017.

Stoneridge Commerce Center - Alternative Land Use Plan - Riverside-South Coast County, Annual

**Stoneridge Commerce Center - Alternative Land Use Plan  
Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	561.92	1000sqft	30.90	561,920.00	0
Manufacturing	847.68	1000sqft	38.92	847,680.00	0
Refrigerated Warehouse-No Rail	1,695.36	1000sqft	77.84	1,695,360.00	0
Unrefrigerated Warehouse-No Rail	2,966.87	1000sqft	136.22	2,966,870.00	0
Unrefrigerated Warehouse-No Rail	2,966.87	1000sqft	136.22	2,966,870.00	0
Unrefrigerated Warehouse-No Rail	374.62	1000sqft	20.60	374,620.00	0
Other Asphalt Surfaces	34.40	Acre	34.40	1,498,464.00	0
Other Non-Asphalt Surfaces	31.40	Acre	31.40	1,367,784.00	0
Free-Standing Discount Superstore	100.00	1000sqft	6.72	100,000.00	0
Strip Mall	26.54	1000sqft	1.78	26,540.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2030
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	502.65	<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**

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Project Characteristics - 2017 SCE CO2 Intensity Factor per Edison International Sustainability Template - Section 2 Quantative Information (2018)

Land Use - Land use types are consistent with the Traffic Impact Analysis prepared for the Project (Urban Crossroads 2020). Land uses also include 34.4 acres of internal circulation and 31.4 acres of offsite infrastructure.

Construction Phase - Construction timing adjusted to reflect a 2021 start date and 2030 Opening Year. Building construction, paving, and painting assumed to occur simultaneously

Off-road Equipment - Ibid

Off-road Equipment - Ibid

Off-road Equipment - Ibid

Off-road Equipment - Ibid

Off-road Equipment - Equipment doubled to account for accelerated timeline compared with CalEEMod defaults

Trips and VMT - Building construction worker & vendor trips reflect total building s.f. divided by the number of days of construction, coupled with the rates for commercial buildings in the CalEEMod User's Guide Appendix E. Painting worker trips equate to Paving.

Grading - Haul truck emissions calculated separately

Vehicle Trips - Mobile emissions modeled separately

Consumer Products - Consumer product emission factor adusted to omit dry warehouse square footage. Cold storage, manufacturing, industrial park, and all commercial retail are included

Water And Wastewater - Water supply derived from EMWD Water Supply Assessment Reput Stoneridge Commerce Center SP 239 (2020)

Construction Off-road Equipment Mitigation - "Mitigation" accounts for County requirements to employ Tier 3 engines or better and adhere to SCAQMD Rule 403

Energy Mitigation - Energy use reflects 2019 Title 24 standards. Increase in efficiency per CEC Building Energy Efficiency Standards Frequently Asked Questions (2018)

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	40
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	660.00	1,473.00
tblConstructionPhase	NumDays	9,300.00	1,473.00
tblConstructionPhase	NumDays	930.00	465.00
tblConstructionPhase	NumDays	660.00	1,473.00
tblConstructionPhase	NumDays	360.00	180.00
tblConsumerProducts	ROG_EF	1.98E-05	4.1E-06
tblLandUse	LotAcreage	12.90	30.90

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tblLandUse	LotAcreage	19.46	38.92
tblLandUse	LotAcreage	38.92	77.84
tblLandUse	LotAcreage	68.11	136.22
tblLandUse	LotAcreage	68.11	136.22
tblLandUse	LotAcreage	8.60	20.60
tblLandUse	LotAcreage	2.30	6.72
tblLandUse	LotAcreage	0.61	1.78
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	502.65
tblTripsAndVMT	VendorTripNumber	2,033.00	178.00
tblTripsAndVMT	WorkerTripNumber	35.00	18.00
tblTripsAndVMT	WorkerTripNumber	40.00	20.00

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tblTripsAndVMT	WorkerTripNumber	5,198.00	253.00
tblTripsAndVMT	WorkerTripNumber	30.00	15.00
tblTripsAndVMT	WorkerTripNumber	1,040.00	15.00
tblVehicleTrips	ST_TR	64.07	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	56.12	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	50.75	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	3.82	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	7,407,252.15	5,330,000.00
tblWater	IndoorWaterUseRate	129,944,000.00	12,907,430.00
tblWater	IndoorWaterUseRate	196,026,000.00	31,024,945.00
tblWater	IndoorWaterUseRate	392,052,000.00	62,754,292.00
tblWater	IndoorWaterUseRate	1,965,884.72	1,339,695.00
tblWater	IndoorWaterUseRate	1,458,808,250.00	240,584,301.00

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tblWater	OutdoorWaterUseRate	4,539,928.74	246,000.00
tblWater	OutdoorWaterUseRate	1,204,897.09	54,000.00

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.5183	5.3491	2.8298	5.1400e-003	2.3978	0.2700	2.6678	1.3143	0.2484	1.5627	0.0000	451.9110	451.9110	0.1430	0.0000	455.4857
2022	0.9309	9.8295	7.1763	0.0152	3.4047	0.4242	3.8289	1.3190	0.3902	1.7092	0.0000	1,338.4982	1,338.4982	0.4263	0.0000	1,349.1558
2023	0.8499	8.7384	7.1646	0.0159	2.7842	0.3606	3.1448	0.9780	0.3317	1.3097	0.0000	1,400.5856	1,400.5856	0.4467	0.0000	1,411.7521
2024	6.8234	6.1514	7.5912	0.0177	0.4298	0.2350	0.6648	0.1168	0.2198	0.3365	0.0000	1,581.1141	1,581.1141	0.2739	0.0000	1,587.9622
2025	8.7160	7.3656	9.6478	0.0225	0.5526	0.2641	0.8168	0.1501	0.2470	0.3971	0.0000	2,017.6230	2,017.6230	0.3499	0.0000	2,026.3704
2026	8.7090	7.3430	9.5808	0.0224	0.5526	0.2641	0.8167	0.1501	0.2469	0.3970	0.0000	2,004.0826	2,004.0826	0.3486	0.0000	2,012.7986
2027	8.7022	7.3218	9.5220	0.0223	0.5526	0.2639	0.8165	0.1501	0.2468	0.3969	0.0000	1,992.2583	1,992.2583	0.3474	0.0000	2,000.9442
2028	8.6623	7.2761	9.4355	0.0221	0.5505	0.2627	0.8132	0.1495	0.2457	0.3952	0.0000	1,974.5186	1,974.5186	0.3450	0.0000	1,983.1426
2029	7.5569	6.3386	8.1972	0.0192	0.4806	0.2293	0.7099	0.1306	0.2144	0.3449	0.0000	1,716.1517	1,716.1517	0.3003	0.0000	1,723.6580
<b>Maximum</b>	<b>8.7160</b>	<b>9.8295</b>	<b>9.6478</b>	<b>0.0225</b>	<b>3.4047</b>	<b>0.4242</b>	<b>3.8289</b>	<b>1.3190</b>	<b>0.3902</b>	<b>1.7092</b>	<b>0.0000</b>	<b>2,017.6230</b>	<b>2,017.6230</b>	<b>0.4467</b>	<b>0.0000</b>	<b>2,026.3704</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					
2021	0.1280	2.5201	3.0681	5.1400e-003	0.9386	0.1250	1.0636	0.5136	0.1250	0.6386	0.0000	451.9104	451.9104	0.1430	0.0000	455.4851
2022	0.3778	7.2772	8.9613	0.0152	1.3352	0.3211	1.6563	0.5166	0.3210	0.8376	0.0000	1,338.4966	1,338.4966	0.4263	0.0000	1,349.1542
2023	0.3949	7.5904	9.3584	0.0159	1.0932	0.3289	1.4221	0.3836	0.3289	0.7125	0.0000	1,400.5840	1,400.5840	0.4467	0.0000	1,411.7505
2024	6.5501	6.6977	8.4842	0.0177	0.2880	0.3294	0.6174	0.0819	0.3292	0.4111	0.0000	1,581.1130	1,581.1130	0.2739	0.0000	1,587.9611
2025	8.4135	8.5874	10.8302	0.0225	0.3703	0.4235	0.7937	0.1053	0.4232	0.5286	0.0000	2,017.6216	2,017.6216	0.3499	0.0000	2,026.3690
2026	8.4065	8.5648	10.7632	0.0224	0.3702	0.4234	0.7936	0.1053	0.4231	0.5285	0.0000	2,004.0812	2,004.0812	0.3486	0.0000	2,012.7972
2027	8.3997	8.5437	10.7044	0.0223	0.3702	0.4232	0.7935	0.1053	0.4230	0.5283	0.0000	1,992.2569	1,992.2569	0.3474	0.0000	2,000.9427
2028	8.3610	8.4933	10.6133	0.0221	0.3688	0.4214	0.7903	0.1049	0.4212	0.5262	0.0000	1,974.5172	1,974.5172	0.3450	0.0000	1,983.1412
2029	7.2938	7.4012	9.2255	0.0192	0.3220	0.3678	0.6898	0.0916	0.3676	0.4593	0.0000	1,716.1505	1,716.1505	0.3003	0.0000	1,723.6568
<b>Maximum</b>	<b>8.4135</b>	<b>8.5874</b>	<b>10.8302</b>	<b>0.0225</b>	<b>1.3352</b>	<b>0.4235</b>	<b>1.6563</b>	<b>0.5166</b>	<b>0.4232</b>	<b>0.8376</b>	<b>0.0000</b>	<b>2,017.6216</b>	<b>2,017.6216</b>	<b>0.4467</b>	<b>0.0000</b>	<b>2,026.3690</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>6.11</b>	<b>0.06</b>	<b>-15.27</b>	<b>0.00</b>	<b>53.39</b>	<b>-22.92</b>	<b>39.63</b>	<b>54.96</b>	<b>-32.27</b>	<b>24.51</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)
4	4-8-2021	7-7-2021	0.2223	0.1003



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5	7-8-2021	10-7-2021	2.9211	1.3185
6	10-8-2021	1-7-2022	2.8805	1.3185
7	1-8-2022	4-7-2022	2.4634	1.5279
8	4-8-2022	7-7-2022	2.7649	2.0520
9	7-8-2022	10-7-2022	2.7953	2.0746
10	10-8-2022	1-7-2023	2.7721	2.0746
11	1-8-2023	4-7-2023	2.4365	2.0292
12	4-8-2023	7-7-2023	2.4636	2.0517
13	7-8-2023	10-7-2023	2.4906	2.0743
14	10-8-2023	1-7-2024	2.0033	1.6684
15	1-8-2024	4-7-2024	0.7759	0.7923
16	4-8-2024	7-7-2024	4.1561	4.2435
17	7-8-2024	10-7-2024	4.2014	4.2898
18	10-8-2024	1-7-2025	4.1860	4.2852
19	1-8-2025	4-7-2025	3.9587	4.1851
20	4-8-2025	7-7-2025	4.0066	4.2356
21	7-8-2025	10-7-2025	4.0503	4.2818
22	10-8-2025	1-7-2026	4.0458	4.2772
23	1-8-2026	4-7-2026	3.9514	4.1778
24	4-8-2026	7-7-2026	3.9993	4.2282
25	7-8-2026	10-7-2026	4.0429	4.2743
26	10-8-2026	1-7-2027	4.0383	4.2698
27	1-8-2027	4-7-2027	3.9445	4.1710
28	4-8-2027	7-7-2027	3.9923	4.2213
29	7-8-2027	10-7-2027	4.0359	4.2673
30	10-8-2027	1-7-2028	4.0314	4.2628
31	1-8-2028	4-7-2028	3.9823	4.2112

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32	4-8-2028	7-7-2028	3.9863	4.2152
33	7-8-2028	10-7-2028	4.0298	4.2612
34	10-8-2028	1-7-2029	4.0253	4.2567
35	1-8-2029	4-7-2029	3.9328	4.1592
36	4-8-2029	7-7-2029	3.9805	4.2095
37	7-8-2029	9-30-2029	3.7181	3.9319
		Highest	4.2014	4.2898

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	11.7962	1.1000e-003	0.1220	1.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	0.2384	0.2384	6.1000e-004	0.0000	0.2538
Energy	0.7028	6.3887	5.3665	0.0383		0.4855	0.4855		0.4855	0.4855	0.0000	29,337.2436	29,337.2436	1.4246	0.3947	29,490.4736
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	1,974.9681	0.0000	1,974.9681	116.7173	0.0000	4,892.8999
Water						0.0000	0.0000		0.0000	0.0000	112.2890	1,051.5264	1,163.8155	11.5938	0.2849	1,538.5539
<b>Total</b>	<b>12.4990</b>	<b>6.3898</b>	<b>5.4885</b>	<b>0.0383</b>	<b>0.0000</b>	<b>0.4860</b>	<b>0.4860</b>	<b>0.0000</b>	<b>0.4860</b>	<b>0.4860</b>	<b>2,087.2571</b>	<b>30,389.0084</b>	<b>32,476.2655</b>	<b>129.7363</b>	<b>0.6796</b>	<b>35,922.1811</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	11.7962	1.1000e-003	0.1220	1.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	0.2384	0.2384	6.1000e-004	0.0000	0.2538
Energy	0.6488	5.8984	4.9547	0.0354		0.4483	0.4483		0.4483	0.4483	0.0000	28,235.7369	28,235.7369	1.3817	0.3781	28,382.9567
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	1,974.9681	0.0000	1,974.9681	116.7173	0.0000	4,892.8999
Water						0.0000	0.0000		0.0000	0.0000	112.2890	1,051.5264	1,163.8155	11.5938	0.2849	1,538.5539
<b>Total</b>	<b>12.4451</b>	<b>5.8995</b>	<b>5.0767</b>	<b>0.0354</b>	<b>0.0000</b>	<b>0.4487</b>	<b>0.4487</b>	<b>0.0000</b>	<b>0.4487</b>	<b>0.4487</b>	<b>2,087.2571</b>	<b>29,287.5017</b>	<b>31,374.7589</b>	<b>129.6934</b>	<b>0.6630</b>	<b>34,814.6642</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>0.43</b>	<b>7.67</b>	<b>7.50</b>	<b>7.67</b>	<b>0.00</b>	<b>7.67</b>	<b>7.67</b>	<b>0.00</b>	<b>7.67</b>	<b>7.67</b>	<b>0.00</b>	<b>3.62</b>	<b>3.39</b>	<b>0.03</b>	<b>2.44</b>	<b>3.08</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	Site Preparation	Site Preparation	7/1/2021	3/9/2022	5	180	
2	Grading	Grading	3/10/2022	12/20/2023	5	465	
3	Building Construction	Building Construction	3/22/2024	11/13/2029	5	1473	
4	Paving	Paving	3/22/2024	11/13/2029	5	1473	
5	Architectural Coating	Architectural Coating	3/22/2024	11/13/2029	5	1473	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 2325**

**Acres of Paving: 65.8**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 14,309,790; Non-Residential Outdoor: 4,769,930; Striped Parking Area: 171,975 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	6	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	8	8.00	97	0.37
Grading	Excavators	4	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	4	8.00	130	0.42
Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Architectural Coating	Air Compressors	2	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	14	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	16	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	253.00	178.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	12	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3848	0.0000	2.3848	1.3109	0.0000	1.3109	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5132	5.3456	2.7924	5.0200e-003		0.2699	0.2699		0.2483	0.2483	0.0000	441.3515	441.3515	0.1427	0.0000	444.9200
<b>Total</b>	<b>0.5132</b>	<b>5.3456</b>	<b>2.7924</b>	<b>5.0200e-003</b>	<b>2.3848</b>	<b>0.2699</b>	<b>2.6546</b>	<b>1.3109</b>	<b>0.2483</b>	<b>1.5591</b>	<b>0.0000</b>	<b>441.3515</b>	<b>441.3515</b>	<b>0.1427</b>	<b>0.0000</b>	<b>444.9200</b>

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**3.2 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0900e-003	3.4300e-003	0.0374	1.2000e-004	0.0131	8.0000e-005	0.0131	3.4700e-003	7.0000e-005	3.5400e-003	0.0000	10.5595	10.5595	2.5000e-004	0.0000	10.5656
<b>Total</b>	<b>5.0900e-003</b>	<b>3.4300e-003</b>	<b>0.0374</b>	<b>1.2000e-004</b>	<b>0.0131</b>	<b>8.0000e-005</b>	<b>0.0131</b>	<b>3.4700e-003</b>	<b>7.0000e-005</b>	<b>3.5400e-003</b>	<b>0.0000</b>	<b>10.5595</b>	<b>10.5595</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>10.5656</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					0.9301	0.0000	0.9301	0.5112	0.0000	0.5112	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1229	2.5167	3.0307	5.0200e-003		0.1249	0.1249		0.1249	0.1249	0.0000	441.3509	441.3509	0.1427	0.0000	444.9195
<b>Total</b>	<b>0.1229</b>	<b>2.5167</b>	<b>3.0307</b>	<b>5.0200e-003</b>	<b>0.9301</b>	<b>0.1249</b>	<b>1.0549</b>	<b>0.5112</b>	<b>0.1249</b>	<b>0.6361</b>	<b>0.0000</b>	<b>441.3509</b>	<b>441.3509</b>	<b>0.1427</b>	<b>0.0000</b>	<b>444.9195</b>

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**3.2 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0900e-003	3.4300e-003	0.0374	1.2000e-004	8.5300e-003	8.0000e-005	8.6100e-003	2.3600e-003	7.0000e-005	2.4300e-003	0.0000	10.5595	10.5595	2.5000e-004	0.0000	10.5656
<b>Total</b>	<b>5.0900e-003</b>	<b>3.4300e-003</b>	<b>0.0374</b>	<b>1.2000e-004</b>	<b>8.5300e-003</b>	<b>8.0000e-005</b>	<b>8.6100e-003</b>	<b>2.3600e-003</b>	<b>7.0000e-005</b>	<b>2.4300e-003</b>	<b>0.0000</b>	<b>10.5595</b>	<b>10.5595</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>10.5656</b>

**3.2 Site Preparation - 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					0.8672	0.0000	0.8672	0.4767	0.0000	0.4767	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1522	1.5880	0.9455	1.8300e-003		0.0774	0.0774		0.0712	0.0712	0.0000	160.5091	160.5091	0.0519	0.0000	161.8069
<b>Total</b>	<b>0.1522</b>	<b>1.5880</b>	<b>0.9455</b>	<b>1.8300e-003</b>	<b>0.8672</b>	<b>0.0774</b>	<b>0.9446</b>	<b>0.4767</b>	<b>0.0712</b>	<b>0.5479</b>	<b>0.0000</b>	<b>160.5091</b>	<b>160.5091</b>	<b>0.0519</b>	<b>0.0000</b>	<b>161.8069</b>



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**3.2 Site Preparation - 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	1.7400e-003	1.1200e-003	0.0125	4.0000e-005	4.7500e-003	3.0000e-005	4.7800e-003	1.2600e-003	3.0000e-005	1.2900e-003	0.0000	3.6997	3.6997	8.0000e-005	0.0000	3.7017
<b>Total</b>	<b>1.7400e-003</b>	<b>1.1200e-003</b>	<b>0.0125</b>	<b>4.0000e-005</b>	<b>4.7500e-003</b>	<b>3.0000e-005</b>	<b>4.7800e-003</b>	<b>1.2600e-003</b>	<b>3.0000e-005</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>3.6997</b>	<b>3.6997</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>3.7017</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					0.3382	0.0000	0.3382	0.1859	0.0000	0.1859	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0447	0.9152	1.1021	1.8300e-003		0.0454	0.0454		0.0454	0.0454	0.0000	160.5089	160.5089	0.0519	0.0000	161.8067
<b>Total</b>	<b>0.0447</b>	<b>0.9152</b>	<b>1.1021</b>	<b>1.8300e-003</b>	<b>0.3382</b>	<b>0.0454</b>	<b>0.3836</b>	<b>0.1859</b>	<b>0.0454</b>	<b>0.2313</b>	<b>0.0000</b>	<b>160.5089</b>	<b>160.5089</b>	<b>0.0519</b>	<b>0.0000</b>	<b>161.8067</b>

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**3.2 Site Preparation - 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	1.7400e-003	1.1200e-003	0.0125	4.0000e-005	3.1000e-003	3.0000e-005	3.1300e-003	8.6000e-004	3.0000e-005	8.8000e-004	0.0000	3.6997	3.6997	8.0000e-005	0.0000	3.7017
<b>Total</b>	<b>1.7400e-003</b>	<b>1.1200e-003</b>	<b>0.0125</b>	<b>4.0000e-005</b>	<b>3.1000e-003</b>	<b>3.0000e-005</b>	<b>3.1300e-003</b>	<b>8.6000e-004</b>	<b>3.0000e-005</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>3.6997</b>	<b>3.6997</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>3.7017</b>

**3.3 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					2.5095	0.0000	2.5095	0.8349	0.0000	0.8349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7685	8.2348	6.1568	0.0132		0.3466	0.3466		0.3189	0.3189	0.0000	1,156.1335	1,156.1335	0.3739	0.0000	1,165.4814
<b>Total</b>	<b>0.7685</b>	<b>8.2348</b>	<b>6.1568</b>	<b>0.0132</b>	<b>2.5095</b>	<b>0.3466</b>	<b>2.8561</b>	<b>0.8349</b>	<b>0.3189</b>	<b>1.1538</b>	<b>0.0000</b>	<b>1,156.1335</b>	<b>1,156.1335</b>	<b>0.3739</b>	<b>0.0000</b>	<b>1,165.4814</b>

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**3.3 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	0.0000	0.0000	0.0000	0.0000	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	8.5200e-003	5.5100e-003	0.0615	2.0000e-004	0.0233	1.4000e-004	0.0234	6.1900e-003	1.3000e-004	6.3100e-003	0.0000	18.1559	18.1559	3.9000e-004	0.0000	18.1658
<b>Total</b>	<b>8.5200e-003</b>	<b>5.5100e-003</b>	<b>0.0615</b>	<b>2.0000e-004</b>	<b>0.0233</b>	<b>1.4000e-004</b>	<b>0.0234</b>	<b>6.1900e-003</b>	<b>1.3000e-004</b>	<b>6.3100e-003</b>	<b>0.0000</b>	<b>18.1559</b>	<b>18.1559</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>18.1658</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					0.9787	0.0000	0.9787	0.3256	0.0000	0.3256	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3229	6.3554	7.7852	0.0132		0.2755	0.2755		0.2755	0.2755	0.0000	1,156.1321	1,156.1321	0.3739	0.0000	1,165.4800
<b>Total</b>	<b>0.3229</b>	<b>6.3554</b>	<b>7.7852</b>	<b>0.0132</b>	<b>0.9787</b>	<b>0.2755</b>	<b>1.2542</b>	<b>0.3256</b>	<b>0.2755</b>	<b>0.6011</b>	<b>0.0000</b>	<b>1,156.1321</b>	<b>1,156.1321</b>	<b>0.3739</b>	<b>0.0000</b>	<b>1,165.4800</b>

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**3.3 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	0.0000	0.0000	0.0000	0.0000	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	8.5200e-003	5.5100e-003	0.0615	2.0000e-004	0.0152	1.4000e-004	0.0154	4.2000e-003	1.3000e-004	4.3300e-003	0.0000	18.1559	18.1559	3.9000e-004	0.0000	18.1658
<b>Total</b>	<b>8.5200e-003</b>	<b>5.5100e-003</b>	<b>0.0615</b>	<b>2.0000e-004</b>	<b>0.0152</b>	<b>1.4000e-004</b>	<b>0.0154</b>	<b>4.2000e-003</b>	<b>1.3000e-004</b>	<b>4.3300e-003</b>	<b>0.0000</b>	<b>18.1559</b>	<b>18.1559</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>18.1658</b>

**3.3 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					2.7564	0.0000	2.7564	0.9706	0.0000	0.9706	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.8404	8.7325	7.0969	0.0157		0.3604	0.3604		0.3316	0.3316	0.0000	1,379.7408	1,379.7408	0.4462	0.0000	1,390.8967
<b>Total</b>	<b>0.8404</b>	<b>8.7325</b>	<b>7.0969</b>	<b>0.0157</b>	<b>2.7564</b>	<b>0.3604</b>	<b>3.1168</b>	<b>0.9706</b>	<b>0.3316</b>	<b>1.3022</b>	<b>0.0000</b>	<b>1,379.7408</b>	<b>1,379.7408</b>	<b>0.4462</b>	<b>0.0000</b>	<b>1,390.8967</b>

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**3.3 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5500e-003	5.9300e-003	0.0676	2.3000e-004	0.0278	1.6000e-004	0.0280	7.3800e-003	1.5000e-004	7.5300e-003	0.0000	20.8449	20.8449	4.2000e-004	0.0000	20.8554
<b>Total</b>	<b>9.5500e-003</b>	<b>5.9300e-003</b>	<b>0.0676</b>	<b>2.3000e-004</b>	<b>0.0278</b>	<b>1.6000e-004</b>	<b>0.0280</b>	<b>7.3800e-003</b>	<b>1.5000e-004</b>	<b>7.5300e-003</b>	<b>0.0000</b>	<b>20.8449</b>	<b>20.8449</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>20.8554</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					1.0750	0.0000	1.0750	0.3785	0.0000	0.3785	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3853	7.5845	9.2908	0.0157		0.3288	0.3288		0.3288	0.3288	0.0000	1,379.7391	1,379.7391	0.4462	0.0000	1,390.8950
<b>Total</b>	<b>0.3853</b>	<b>7.5845</b>	<b>9.2908</b>	<b>0.0157</b>	<b>1.0750</b>	<b>0.3288</b>	<b>1.4038</b>	<b>0.3785</b>	<b>0.3288</b>	<b>0.7073</b>	<b>0.0000</b>	<b>1,379.7391</b>	<b>1,379.7391</b>	<b>0.4462</b>	<b>0.0000</b>	<b>1,390.8950</b>

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**3.3 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5500e-003	5.9300e-003	0.0676	2.3000e-004	0.0182	1.6000e-004	0.0183	5.0200e-003	1.5000e-004	5.1600e-003	0.0000	20.8449	20.8449	4.2000e-004	0.0000	20.8554
<b>Total</b>	<b>9.5500e-003</b>	<b>5.9300e-003</b>	<b>0.0676</b>	<b>2.3000e-004</b>	<b>0.0182</b>	<b>1.6000e-004</b>	<b>0.0183</b>	<b>5.0200e-003</b>	<b>1.5000e-004</b>	<b>5.1600e-003</b>	<b>0.0000</b>	<b>20.8449</b>	<b>20.8449</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>20.8554</b>

**3.4 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	0.2987	2.7291	3.2819	5.4700e-003		0.1245	0.1245		0.1171	0.1171	0.0000	470.6537	470.6537	0.1113	0.0000	473.4361
<b>Total</b>	<b>0.2987</b>	<b>2.7291</b>	<b>3.2819</b>	<b>5.4700e-003</b>		<b>0.1245</b>	<b>0.1245</b>		<b>0.1171</b>	<b>0.1171</b>	<b>0.0000</b>	<b>470.6537</b>	<b>470.6537</b>	<b>0.1113</b>	<b>0.0000</b>	<b>473.4361</b>

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**3.4 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	0.0302	1.1804	0.2541	4.4300e-003	0.1141	1.2000e-003	0.1153	0.0329	1.1500e-003	0.0341	0.0000	423.8802	423.8802	0.0239	0.0000	424.4764
Worker	0.0915	0.0545	0.6426	2.2500e-003	0.2823	1.5900e-003	0.2838	0.0750	1.4600e-003	0.0764	0.0000	204.0186	204.0186	3.9200e-003	0.0000	204.1165
<b>Total</b>	<b>0.1216</b>	<b>1.2350</b>	<b>0.8967</b>	<b>6.6800e-003</b>	<b>0.3964</b>	<b>2.7900e-003</b>	<b>0.3991</b>	<b>0.1079</b>	<b>2.6100e-003</b>	<b>0.1105</b>	<b>0.0000</b>	<b>627.8988</b>	<b>627.8988</b>	<b>0.0278</b>	<b>0.0000</b>	<b>628.5929</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	0.1368	2.8879	3.6284	5.4700e-003		0.1834	0.1834		0.1834	0.1834	0.0000	470.6531	470.6531	0.1113	0.0000	473.4355
<b>Total</b>	<b>0.1368</b>	<b>2.8879</b>	<b>3.6284</b>	<b>5.4700e-003</b>		<b>0.1834</b>	<b>0.1834</b>		<b>0.1834</b>	<b>0.1834</b>	<b>0.0000</b>	<b>470.6531</b>	<b>470.6531</b>	<b>0.1113</b>	<b>0.0000</b>	<b>473.4355</b>

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**3.4 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0302	1.1804	0.2541	4.4300e-003	0.0818	1.2000e-003	0.0830	0.0250	1.1500e-003	0.0261	0.0000	423.8802	423.8802	0.0239	0.0000	424.4764
Worker	0.0915	0.0545	0.6426	2.2500e-003	0.1844	1.5900e-003	0.1859	0.0509	1.4600e-003	0.0524	0.0000	204.0186	204.0186	3.9200e-003	0.0000	204.1165
<b>Total</b>	<b>0.1216</b>	<b>1.2350</b>	<b>0.8967</b>	<b>6.6800e-003</b>	<b>0.2661</b>	<b>2.7900e-003</b>	<b>0.2689</b>	<b>0.0759</b>	<b>2.6100e-003</b>	<b>0.0785</b>	<b>0.0000</b>	<b>627.8988</b>	<b>627.8988</b>	<b>0.0278</b>	<b>0.0000</b>	<b>628.5929</b>

**3.4 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	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670
<b>Total</b>	<b>0.3569</b>	<b>3.2546</b>	<b>4.1981</b>	<b>7.0400e-003</b>		<b>0.1377</b>	<b>0.1377</b>		<b>0.1295</b>	<b>0.1295</b>	<b>0.0000</b>	<b>605.3098</b>	<b>605.3098</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8670</b>



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**3.4 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	0.0378	1.5008	0.3158	5.6500e-003	0.1467	1.5300e-003	0.1482	0.0423	1.4600e-003	0.0438	0.0000	541.5005	541.5005	0.0299	0.0000	542.2474
Worker	0.1113	0.0638	0.7661	2.7800e-003	0.3629	2.0100e-003	0.3649	0.0964	1.8500e-003	0.0982	0.0000	251.8112	251.8112	4.5700e-003	0.0000	251.9253
<b>Total</b>	<b>0.1491</b>	<b>1.5647</b>	<b>1.0819</b>	<b>8.4300e-003</b>	<b>0.5096</b>	<b>3.5400e-003</b>	<b>0.5131</b>	<b>0.1387</b>	<b>3.3100e-003</b>	<b>0.1420</b>	<b>0.0000</b>	<b>793.3117</b>	<b>793.3117</b>	<b>0.0345</b>	<b>0.0000</b>	<b>794.1728</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	0.1759	3.7130	4.6651	7.0400e-003		0.2358	0.2358		0.2358	0.2358	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663
<b>Total</b>	<b>0.1759</b>	<b>3.7130</b>	<b>4.6651</b>	<b>7.0400e-003</b>		<b>0.2358</b>	<b>0.2358</b>		<b>0.2358</b>	<b>0.2358</b>	<b>0.0000</b>	<b>605.3091</b>	<b>605.3091</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8663</b>

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**3.4 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	0.0378	1.5008	0.3158	5.6500e-003	0.1051	1.5300e-003	0.1067	0.0321	1.4600e-003	0.0336	0.0000	541.5005	541.5005	0.0299	0.0000	542.2474
Worker	0.1113	0.0638	0.7661	2.7800e-003	0.2370	2.0100e-003	0.2390	0.0655	1.8500e-003	0.0673	0.0000	251.8112	251.8112	4.5700e-003	0.0000	251.9253
<b>Total</b>	<b>0.1491</b>	<b>1.5647</b>	<b>1.0819</b>	<b>8.4300e-003</b>	<b>0.3421</b>	<b>3.5400e-003</b>	<b>0.3457</b>	<b>0.0976</b>	<b>3.3100e-003</b>	<b>0.1009</b>	<b>0.0000</b>	<b>793.3117</b>	<b>793.3117</b>	<b>0.0345</b>	<b>0.0000</b>	<b>794.1728</b>

**3.4 Building Construction - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670
<b>Total</b>	<b>0.3569</b>	<b>3.2546</b>	<b>4.1981</b>	<b>7.0400e-003</b>		<b>0.1377</b>	<b>0.1377</b>		<b>0.1295</b>	<b>0.1295</b>	<b>0.0000</b>	<b>605.3098</b>	<b>605.3098</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8670</b>

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**3.4 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	0.0370	1.4842	0.3069	5.6200e-003	0.1467	1.5100e-003	0.1482	0.0423	1.4400e-003	0.0438	0.0000	538.2188	538.2188	0.0291	0.0000	538.9456
Worker	0.1057	0.0585	0.7141	2.6800e-003	0.3629	1.9500e-003	0.3648	0.0964	1.7900e-003	0.0982	0.0000	242.6400	242.6400	4.1600e-003	0.0000	242.7441
<b>Total</b>	<b>0.1427</b>	<b>1.5427</b>	<b>1.0210</b>	<b>8.3000e-003</b>	<b>0.5096</b>	<b>3.4600e-003</b>	<b>0.5130</b>	<b>0.1387</b>	<b>3.2300e-003</b>	<b>0.1419</b>	<b>0.0000</b>	<b>780.8588</b>	<b>780.8588</b>	<b>0.0332</b>	<b>0.0000</b>	<b>781.6896</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	0.1759	3.7130	4.6651	7.0400e-003		0.2358	0.2358		0.2358	0.2358	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663
<b>Total</b>	<b>0.1759</b>	<b>3.7130</b>	<b>4.6651</b>	<b>7.0400e-003</b>		<b>0.2358</b>	<b>0.2358</b>		<b>0.2358</b>	<b>0.2358</b>	<b>0.0000</b>	<b>605.3091</b>	<b>605.3091</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8663</b>

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**3.4 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	0.0370	1.4842	0.3069	5.6200e-003	0.1051	1.5100e-003	0.1066	0.0321	1.4400e-003	0.0336	0.0000	538.2188	538.2188	0.0291	0.0000	538.9456
Worker	0.1057	0.0585	0.7141	2.6800e-003	0.2370	1.9500e-003	0.2390	0.0655	1.7900e-003	0.0673	0.0000	242.6400	242.6400	4.1600e-003	0.0000	242.7441
<b>Total</b>	<b>0.1427</b>	<b>1.5427</b>	<b>1.0210</b>	<b>8.3000e-003</b>	<b>0.3421</b>	<b>3.4600e-003</b>	<b>0.3456</b>	<b>0.0976</b>	<b>3.2300e-003</b>	<b>0.1008</b>	<b>0.0000</b>	<b>780.8588</b>	<b>780.8588</b>	<b>0.0332</b>	<b>0.0000</b>	<b>781.6896</b>

**3.4 Building Construction - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670
<b>Total</b>	<b>0.3569</b>	<b>3.2546</b>	<b>4.1981</b>	<b>7.0400e-003</b>		<b>0.1377</b>	<b>0.1377</b>		<b>0.1295</b>	<b>0.1295</b>	<b>0.0000</b>	<b>605.3098</b>	<b>605.3098</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8670</b>

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**3.4 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	0.0363	1.4683	0.2997	5.5900e-003	0.1467	1.4900e-003	0.1482	0.0423	1.4200e-003	0.0437	0.0000	535.3876	535.3876	0.0283	0.0000	536.0943
Worker	0.1003	0.0537	0.6680	2.5900e-003	0.3629	1.8400e-003	0.3647	0.0964	1.7000e-003	0.0981	0.0000	234.6003	234.6003	3.8000e-003	0.0000	234.6953
<b>Total</b>	<b>0.1366</b>	<b>1.5221</b>	<b>0.9677</b>	<b>8.1800e-003</b>	<b>0.5096</b>	<b>3.3300e-003</b>	<b>0.5129</b>	<b>0.1387</b>	<b>3.1200e-003</b>	<b>0.1418</b>	<b>0.0000</b>	<b>769.9879</b>	<b>769.9879</b>	<b>0.0321</b>	<b>0.0000</b>	<b>770.7896</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	0.1759	3.7130	4.6651	7.0400e-003		0.2358	0.2358		0.2358	0.2358	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663
<b>Total</b>	<b>0.1759</b>	<b>3.7130</b>	<b>4.6651</b>	<b>7.0400e-003</b>		<b>0.2358</b>	<b>0.2358</b>		<b>0.2358</b>	<b>0.2358</b>	<b>0.0000</b>	<b>605.3091</b>	<b>605.3091</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8663</b>

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**3.4 Building Construction - 2027**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0363	1.4683	0.2997	5.5900e-003	0.1051	1.4900e-003	0.1066	0.0321	1.4200e-003	0.0335	0.0000	535.3876	535.3876	0.0283	0.0000	536.0943
Worker	0.1003	0.0537	0.6680	2.5900e-003	0.2370	1.8400e-003	0.2389	0.0655	1.7000e-003	0.0672	0.0000	234.6003	234.6003	3.8000e-003	0.0000	234.6953
<b>Total</b>	<b>0.1366</b>	<b>1.5221</b>	<b>0.9677</b>	<b>8.1800e-003</b>	<b>0.3421</b>	<b>3.3300e-003</b>	<b>0.3455</b>	<b>0.0976</b>	<b>3.1200e-003</b>	<b>0.1007</b>	<b>0.0000</b>	<b>769.9879</b>	<b>769.9879</b>	<b>0.0321</b>	<b>0.0000</b>	<b>770.7896</b>

**3.4 Building Construction - 2028**

**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	0.3555	3.2421	4.1820	7.0100e-003		0.1372	0.1372		0.1290	0.1290	0.0000	602.9906	602.9906	0.1417	0.0000	606.5342
<b>Total</b>	<b>0.3555</b>	<b>3.2421</b>	<b>4.1820</b>	<b>7.0100e-003</b>		<b>0.1372</b>	<b>0.1372</b>		<b>0.1290</b>	<b>0.1290</b>	<b>0.0000</b>	<b>602.9906</b>	<b>602.9906</b>	<b>0.1417</b>	<b>0.0000</b>	<b>606.5342</b>

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**3.4 Building Construction - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0356	1.4498	0.2933	5.5400e-003	0.1461	1.4600e-003	0.1476	0.0422	1.4000e-003	0.0436	0.0000	531.0475	531.0475	0.0274	0.0000	531.7315
Worker	0.0946	0.0493	0.6254	2.5000e-003	0.3615	1.7000e-003	0.3632	0.0960	1.5700e-003	0.0976	0.0000	226.7124	226.7124	3.4800e-003	0.0000	226.7995
<b>Total</b>	<b>0.1301</b>	<b>1.4991</b>	<b>0.9187</b>	<b>8.0400e-003</b>	<b>0.5076</b>	<b>3.1600e-003</b>	<b>0.5108</b>	<b>0.1381</b>	<b>2.9700e-003</b>	<b>0.1411</b>	<b>0.0000</b>	<b>757.7599</b>	<b>757.7599</b>	<b>0.0308</b>	<b>0.0000</b>	<b>758.5309</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	0.1752	3.6988	4.6472	7.0100e-003		0.2349	0.2349		0.2349	0.2349	0.0000	602.9899	602.9899	0.1417	0.0000	606.5335
<b>Total</b>	<b>0.1752</b>	<b>3.6988</b>	<b>4.6472</b>	<b>7.0100e-003</b>		<b>0.2349</b>	<b>0.2349</b>		<b>0.2349</b>	<b>0.2349</b>	<b>0.0000</b>	<b>602.9899</b>	<b>602.9899</b>	<b>0.1417</b>	<b>0.0000</b>	<b>606.5335</b>

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**3.4 Building Construction - 2028**

**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	0.0356	1.4498	0.2933	5.5400e-003	0.1047	1.4600e-003	0.1062	0.0320	1.4000e-003	0.0334	0.0000	531.0475	531.0475	0.0274	0.0000	531.7315
Worker	0.0946	0.0493	0.6254	2.5000e-003	0.2361	1.7000e-003	0.2378	0.0652	1.5700e-003	0.0668	0.0000	226.7124	226.7124	3.4800e-003	0.0000	226.7995
<b>Total</b>	<b>0.1301</b>	<b>1.4991</b>	<b>0.9187</b>	<b>8.0400e-003</b>	<b>0.3408</b>	<b>3.1600e-003</b>	<b>0.3440</b>	<b>0.0972</b>	<b>2.9700e-003</b>	<b>0.1002</b>	<b>0.0000</b>	<b>757.7599</b>	<b>757.7599</b>	<b>0.0308</b>	<b>0.0000</b>	<b>758.5309</b>

**3.4 Building Construction - 2029**

**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	0.3104	2.8306	3.6512	6.1200e-003		0.1198	0.1198		0.1127	0.1127	0.0000	526.4572	526.4572	0.1238	0.0000	529.5510
<b>Total</b>	<b>0.3104</b>	<b>2.8306</b>	<b>3.6512</b>	<b>6.1200e-003</b>		<b>0.1198</b>	<b>0.1198</b>		<b>0.1127</b>	<b>0.1127</b>	<b>0.0000</b>	<b>526.4572</b>	<b>526.4572</b>	<b>0.1238</b>	<b>0.0000</b>	<b>529.5510</b>



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**3.4 Building Construction - 2029**

**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	0.0306	1.2555	0.2521	4.8200e-003	0.1276	1.2600e-003	0.1288	0.0368	1.2100e-003	0.0380	0.0000	461.8630	461.8630	0.0233	0.0000	462.4441
Worker	0.0776	0.0397	0.5132	2.1300e-003	0.3156	1.3800e-003	0.3170	0.0838	1.2700e-003	0.0851	0.0000	192.5979	192.5979	2.7900e-003	0.0000	192.6676
<b>Total</b>	<b>0.1082</b>	<b>1.2952</b>	<b>0.7652</b>	<b>6.9500e-003</b>	<b>0.4432</b>	<b>2.6400e-003</b>	<b>0.4458</b>	<b>0.1206</b>	<b>2.4800e-003</b>	<b>0.1231</b>	<b>0.0000</b>	<b>654.4609</b>	<b>654.4609</b>	<b>0.0260</b>	<b>0.0000</b>	<b>655.1117</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	0.1530	3.2293	4.0573	6.1200e-003		0.2051	0.2051		0.2051	0.2051	0.0000	526.4565	526.4565	0.1238	0.0000	529.5504
<b>Total</b>	<b>0.1530</b>	<b>3.2293</b>	<b>4.0573</b>	<b>6.1200e-003</b>		<b>0.2051</b>	<b>0.2051</b>		<b>0.2051</b>	<b>0.2051</b>	<b>0.0000</b>	<b>526.4565</b>	<b>526.4565</b>	<b>0.1238</b>	<b>0.0000</b>	<b>529.5504</b>

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**3.4 Building Construction - 2029**

**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	0.0306	1.2555	0.2521	4.8200e-003	0.0914	1.2600e-003	0.0927	0.0279	1.2100e-003	0.0291	0.0000	461.8630	461.8630	0.0233	0.0000	462.4441
Worker	0.0776	0.0397	0.5132	2.1300e-003	0.2061	1.3800e-003	0.2075	0.0569	1.2700e-003	0.0582	0.0000	192.5979	192.5979	2.7900e-003	0.0000	192.6676
<b>Total</b>	<b>0.1082</b>	<b>1.2952</b>	<b>0.7652</b>	<b>6.9500e-003</b>	<b>0.2976</b>	<b>2.6400e-003</b>	<b>0.3002</b>	<b>0.0849</b>	<b>2.4800e-003</b>	<b>0.0873</b>	<b>0.0000</b>	<b>654.4609</b>	<b>654.4609</b>	<b>0.0260</b>	<b>0.0000</b>	<b>655.1117</b>

**3.5 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2006	1.9335	2.9690	4.6300e-003		0.0951	0.0951		0.0875	0.0875	0.0000	406.5386	406.5386	0.1315	0.0000	409.8257
Paving	6.2100e-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>0.2068</b>	<b>1.9335</b>	<b>2.9690</b>	<b>4.6300e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0875</b>	<b>0.0875</b>	<b>0.0000</b>	<b>406.5386</b>	<b>406.5386</b>	<b>0.1315</b>	<b>0.0000</b>	<b>409.8257</b>

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**3.5 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4200e-003	3.2300e-003	0.0381	1.3000e-004	0.0167	9.0000e-005	0.0168	4.4400e-003	9.0000e-005	4.5300e-003	0.0000	12.0960	12.0960	2.3000e-004	0.0000	12.1018
<b>Total</b>	<b>5.4200e-003</b>	<b>3.2300e-003</b>	<b>0.0381</b>	<b>1.3000e-004</b>	<b>0.0167</b>	<b>9.0000e-005</b>	<b>0.0168</b>	<b>4.4400e-003</b>	<b>9.0000e-005</b>	<b>4.5300e-003</b>	<b>0.0000</b>	<b>12.0960</b>	<b>12.0960</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>12.1018</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	0.1139	2.2929	3.5110	4.6300e-003		0.1237	0.1237		0.1237	0.1237	0.0000	406.5381	406.5381	0.1315	0.0000	409.8252
Paving	6.2100e-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>0.1201</b>	<b>2.2929</b>	<b>3.5110</b>	<b>4.6300e-003</b>		<b>0.1237</b>	<b>0.1237</b>		<b>0.1237</b>	<b>0.1237</b>	<b>0.0000</b>	<b>406.5381</b>	<b>406.5381</b>	<b>0.1315</b>	<b>0.0000</b>	<b>409.8252</b>

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**3.5 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4200e-003	3.2300e-003	0.0381	1.3000e-004	0.0109	9.0000e-005	0.0110	3.0200e-003	9.0000e-005	3.1100e-003	0.0000	12.0960	12.0960	2.3000e-004	0.0000	12.1018
<b>Total</b>	<b>5.4200e-003</b>	<b>3.2300e-003</b>	<b>0.0381</b>	<b>1.3000e-004</b>	<b>0.0109</b>	<b>9.0000e-005</b>	<b>0.0110</b>	<b>3.0200e-003</b>	<b>9.0000e-005</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>12.0960</b>	<b>12.0960</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>12.1018</b>

**3.5 Paving - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2389	2.2398	3.8049	5.9500e-003		0.1092	0.1092		0.1005	0.1005	0.0000	522.5026	522.5026	0.1690	0.0000	526.7273
Paving	7.9800e-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>0.2468</b>	<b>2.2398</b>	<b>3.8049</b>	<b>5.9500e-003</b>		<b>0.1092</b>	<b>0.1092</b>		<b>0.1005</b>	<b>0.1005</b>	<b>0.0000</b>	<b>522.5026</b>	<b>522.5026</b>	<b>0.1690</b>	<b>0.0000</b>	<b>526.7273</b>

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**3.5 Paving - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-003	3.7800e-003	0.0454	1.6000e-004	0.0215	1.2000e-004	0.0216	5.7100e-003	1.1000e-004	5.8200e-003	0.0000	14.9295	14.9295	2.7000e-004	0.0000	14.9363
<b>Total</b>	<b>6.6000e-003</b>	<b>3.7800e-003</b>	<b>0.0454</b>	<b>1.6000e-004</b>	<b>0.0215</b>	<b>1.2000e-004</b>	<b>0.0216</b>	<b>5.7100e-003</b>	<b>1.1000e-004</b>	<b>5.8200e-003</b>	<b>0.0000</b>	<b>14.9295</b>	<b>14.9295</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>14.9363</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	0.1464	2.9481	4.5142	5.9500e-003		0.1590	0.1590		0.1590	0.1590	0.0000	522.5019	522.5019	0.1690	0.0000	526.7266
Paving	7.9800e-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>0.1544</b>	<b>2.9481</b>	<b>4.5142</b>	<b>5.9500e-003</b>		<b>0.1590</b>	<b>0.1590</b>		<b>0.1590</b>	<b>0.1590</b>	<b>0.0000</b>	<b>522.5019</b>	<b>522.5019</b>	<b>0.1690</b>	<b>0.0000</b>	<b>526.7266</b>

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**3.5 Paving - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-003	3.7800e-003	0.0454	1.6000e-004	0.0141	1.2000e-004	0.0142	3.8800e-003	1.1000e-004	3.9900e-003	0.0000	14.9295	14.9295	2.7000e-004	0.0000	14.9363
<b>Total</b>	<b>6.6000e-003</b>	<b>3.7800e-003</b>	<b>0.0454</b>	<b>1.6000e-004</b>	<b>0.0141</b>	<b>1.2000e-004</b>	<b>0.0142</b>	<b>3.8800e-003</b>	<b>1.1000e-004</b>	<b>3.9900e-003</b>	<b>0.0000</b>	<b>14.9295</b>	<b>14.9295</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>14.9363</b>

**3.5 Paving - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2389	2.2398	3.8049	5.9500e-003		0.1092	0.1092		0.1005	0.1005	0.0000	522.5026	522.5026	0.1690	0.0000	526.7273
Paving	7.9800e-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>0.2468</b>	<b>2.2398</b>	<b>3.8049</b>	<b>5.9500e-003</b>		<b>0.1092</b>	<b>0.1092</b>		<b>0.1005</b>	<b>0.1005</b>	<b>0.0000</b>	<b>522.5026</b>	<b>522.5026</b>	<b>0.1690</b>	<b>0.0000</b>	<b>526.7273</b>

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**3.5 Paving - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2700e-003	3.4700e-003	0.0423	1.6000e-004	0.0215	1.2000e-004	0.0216	5.7100e-003	1.1000e-004	5.8200e-003	0.0000	14.3858	14.3858	2.5000e-004	0.0000	14.3919
<b>Total</b>	<b>6.2700e-003</b>	<b>3.4700e-003</b>	<b>0.0423</b>	<b>1.6000e-004</b>	<b>0.0215</b>	<b>1.2000e-004</b>	<b>0.0216</b>	<b>5.7100e-003</b>	<b>1.1000e-004</b>	<b>5.8200e-003</b>	<b>0.0000</b>	<b>14.3858</b>	<b>14.3858</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>14.3919</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	0.1464	2.9481	4.5142	5.9500e-003		0.1590	0.1590		0.1590	0.1590	0.0000	522.5019	522.5019	0.1690	0.0000	526.7266
Paving	7.9800e-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>0.1544</b>	<b>2.9481</b>	<b>4.5142</b>	<b>5.9500e-003</b>		<b>0.1590</b>	<b>0.1590</b>		<b>0.1590</b>	<b>0.1590</b>	<b>0.0000</b>	<b>522.5019</b>	<b>522.5019</b>	<b>0.1690</b>	<b>0.0000</b>	<b>526.7266</b>

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**3.5 Paving - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2700e-003	3.4700e-003	0.0423	1.6000e-004	0.0141	1.2000e-004	0.0142	3.8800e-003	1.1000e-004	3.9900e-003	0.0000	14.3858	14.3858	2.5000e-004	0.0000	14.3919
<b>Total</b>	<b>6.2700e-003</b>	<b>3.4700e-003</b>	<b>0.0423</b>	<b>1.6000e-004</b>	<b>0.0141</b>	<b>1.2000e-004</b>	<b>0.0142</b>	<b>3.8800e-003</b>	<b>1.1000e-004</b>	<b>3.9900e-003</b>	<b>0.0000</b>	<b>14.3858</b>	<b>14.3858</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>14.3919</b>

**3.5 Paving - 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	0.2389	2.2398	3.8049	5.9500e-003		0.1092	0.1092		0.1005	0.1005	0.0000	522.5026	522.5026	0.1690	0.0000	526.7273
Paving	7.9800e-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>0.2468</b>	<b>2.2398</b>	<b>3.8049</b>	<b>5.9500e-003</b>		<b>0.1092</b>	<b>0.1092</b>		<b>0.1005</b>	<b>0.1005</b>	<b>0.0000</b>	<b>522.5026</b>	<b>522.5026</b>	<b>0.1690</b>	<b>0.0000</b>	<b>526.7273</b>



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**3.5 Paving - 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	5.9500e-003	3.1900e-003	0.0396	1.5000e-004	0.0215	1.1000e-004	0.0216	5.7100e-003	1.0000e-004	5.8100e-003	0.0000	13.9091	13.9091	2.3000e-004	0.0000	13.9147
<b>Total</b>	<b>5.9500e-003</b>	<b>3.1900e-003</b>	<b>0.0396</b>	<b>1.5000e-004</b>	<b>0.0215</b>	<b>1.1000e-004</b>	<b>0.0216</b>	<b>5.7100e-003</b>	<b>1.0000e-004</b>	<b>5.8100e-003</b>	<b>0.0000</b>	<b>13.9091</b>	<b>13.9091</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>13.9147</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	0.1464	2.9481	4.5142	5.9500e-003		0.1590	0.1590		0.1590	0.1590	0.0000	522.5019	522.5019	0.1690	0.0000	526.7266
Paving	7.9800e-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>0.1544</b>	<b>2.9481</b>	<b>4.5142</b>	<b>5.9500e-003</b>		<b>0.1590</b>	<b>0.1590</b>		<b>0.1590</b>	<b>0.1590</b>	<b>0.0000</b>	<b>522.5019</b>	<b>522.5019</b>	<b>0.1690</b>	<b>0.0000</b>	<b>526.7266</b>

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**3.5 Paving - 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	5.9500e-003	3.1900e-003	0.0396	1.5000e-004	0.0141	1.1000e-004	0.0142	3.8800e-003	1.0000e-004	3.9800e-003	0.0000	13.9091	13.9091	2.3000e-004	0.0000	13.9147
<b>Total</b>	<b>5.9500e-003</b>	<b>3.1900e-003</b>	<b>0.0396</b>	<b>1.5000e-004</b>	<b>0.0141</b>	<b>1.1000e-004</b>	<b>0.0142</b>	<b>3.8800e-003</b>	<b>1.0000e-004</b>	<b>3.9800e-003</b>	<b>0.0000</b>	<b>13.9091</b>	<b>13.9091</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>13.9147</b>

**3.5 Paving - 2028**

**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	0.2379	2.2312	3.7903	5.9300e-003		0.1088	0.1088		0.1001	0.1001	0.0000	520.5006	520.5006	0.1683	0.0000	524.7092
Paving	7.9500e-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>0.2459</b>	<b>2.2312</b>	<b>3.7903</b>	<b>5.9300e-003</b>		<b>0.1088</b>	<b>0.1088</b>		<b>0.1001</b>	<b>0.1001</b>	<b>0.0000</b>	<b>520.5006</b>	<b>520.5006</b>	<b>0.1683</b>	<b>0.0000</b>	<b>524.7092</b>

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**3.5 Paving - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6100e-003	2.9200e-003	0.0371	1.5000e-004	0.0214	1.0000e-004	0.0215	5.6900e-003	9.0000e-005	5.7800e-003	0.0000	13.4415	13.4415	2.1000e-004	0.0000	13.4466
<b>Total</b>	<b>5.6100e-003</b>	<b>2.9200e-003</b>	<b>0.0371</b>	<b>1.5000e-004</b>	<b>0.0214</b>	<b>1.0000e-004</b>	<b>0.0215</b>	<b>5.6900e-003</b>	<b>9.0000e-005</b>	<b>5.7800e-003</b>	<b>0.0000</b>	<b>13.4415</b>	<b>13.4415</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>13.4466</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	0.1458	2.9368	4.4969	5.9300e-003		0.1584	0.1584		0.1584	0.1584	0.0000	520.5000	520.5000	0.1683	0.0000	524.7085
Paving	7.9500e-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>0.1538</b>	<b>2.9368</b>	<b>4.4969</b>	<b>5.9300e-003</b>		<b>0.1584</b>	<b>0.1584</b>		<b>0.1584</b>	<b>0.1584</b>	<b>0.0000</b>	<b>520.5000</b>	<b>520.5000</b>	<b>0.1683</b>	<b>0.0000</b>	<b>524.7085</b>

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**3.5 Paving - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6100e-003	2.9200e-003	0.0371	1.5000e-004	0.0140	1.0000e-004	0.0141	3.8700e-003	9.0000e-005	3.9600e-003	0.0000	13.4415	13.4415	2.1000e-004	0.0000	13.4466
<b>Total</b>	<b>5.6100e-003</b>	<b>2.9200e-003</b>	<b>0.0371</b>	<b>1.5000e-004</b>	<b>0.0140</b>	<b>1.0000e-004</b>	<b>0.0141</b>	<b>3.8700e-003</b>	<b>9.0000e-005</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>13.4415</b>	<b>13.4415</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>13.4466</b>

**3.5 Paving - 2029**

**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	0.2077	1.9480	3.3092	5.1800e-003		0.0950	0.0950		0.0874	0.0874	0.0000	454.4371	454.4371	0.1470	0.0000	458.1115
Paving	6.9400e-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>0.2147</b>	<b>1.9480</b>	<b>3.3092</b>	<b>5.1800e-003</b>		<b>0.0950</b>	<b>0.0950</b>		<b>0.0874</b>	<b>0.0874</b>	<b>0.0000</b>	<b>454.4371</b>	<b>454.4371</b>	<b>0.1470</b>	<b>0.0000</b>	<b>458.1115</b>

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**3.5 Paving - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-003	2.3500e-003	0.0304	1.3000e-004	0.0187	8.0000e-005	0.0188	4.9700e-003	8.0000e-005	5.0400e-003	0.0000	11.4189	11.4189	1.7000e-004	0.0000	11.4230
<b>Total</b>	<b>4.6000e-003</b>	<b>2.3500e-003</b>	<b>0.0304</b>	<b>1.3000e-004</b>	<b>0.0187</b>	<b>8.0000e-005</b>	<b>0.0188</b>	<b>4.9700e-003</b>	<b>8.0000e-005</b>	<b>5.0400e-003</b>	<b>0.0000</b>	<b>11.4189</b>	<b>11.4189</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>11.4230</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	0.1273	2.5640	3.9261	5.1800e-003		0.1383	0.1383		0.1383	0.1383	0.0000	454.4366	454.4366	0.1470	0.0000	458.1109
Paving	6.9400e-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>0.1343</b>	<b>2.5640</b>	<b>3.9261</b>	<b>5.1800e-003</b>		<b>0.1383</b>	<b>0.1383</b>		<b>0.1383</b>	<b>0.1383</b>	<b>0.0000</b>	<b>454.4366</b>	<b>454.4366</b>	<b>0.1470</b>	<b>0.0000</b>	<b>458.1109</b>

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**3.5 Paving - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-003	2.3500e-003	0.0304	1.3000e-004	0.0122	8.0000e-005	0.0123	3.3800e-003	8.0000e-005	3.4500e-003	0.0000	11.4189	11.4189	1.7000e-004	0.0000	11.4230
<b>Total</b>	<b>4.6000e-003</b>	<b>2.3500e-003</b>	<b>0.0304</b>	<b>1.3000e-004</b>	<b>0.0122</b>	<b>8.0000e-005</b>	<b>0.0123</b>	<b>3.3800e-003</b>	<b>8.0000e-005</b>	<b>3.4500e-003</b>	<b>0.0000</b>	<b>11.4189</b>	<b>11.4189</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>11.4230</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.1487					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0367	0.2474	0.3675	6.0000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	51.8311	51.8311	2.9200e-003	0.0000	51.9040
<b>Total</b>	<b>6.1854</b>	<b>0.2474</b>	<b>0.3675</b>	<b>6.0000e-004</b>		<b>0.0124</b>	<b>0.0124</b>		<b>0.0124</b>	<b>0.0124</b>	<b>0.0000</b>	<b>51.8311</b>	<b>51.8311</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>51.9040</b>

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**3.6 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4200e-003	3.2300e-003	0.0381	1.3000e-004	0.0167	9.0000e-005	0.0168	4.4400e-003	9.0000e-005	4.5300e-003	0.0000	12.0960	12.0960	2.3000e-004	0.0000	12.1018
<b>Total</b>	<b>5.4200e-003</b>	<b>3.2300e-003</b>	<b>0.0381</b>	<b>1.3000e-004</b>	<b>0.0167</b>	<b>9.0000e-005</b>	<b>0.0168</b>	<b>4.4400e-003</b>	<b>9.0000e-005</b>	<b>4.5300e-003</b>	<b>0.0000</b>	<b>12.0960</b>	<b>12.0960</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>12.1018</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	6.1487					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.2755	0.3720	6.0000e-004		0.0193	0.0193		0.0193	0.0193	0.0000	51.8310	51.8310	2.9200e-003	0.0000	51.9040
<b>Total</b>	<b>6.1607</b>	<b>0.2755</b>	<b>0.3720</b>	<b>6.0000e-004</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>51.8310</b>	<b>51.8310</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>51.9040</b>

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**3.6 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4200e-003	3.2300e-003	0.0381	1.3000e-004	0.0109	9.0000e-005	0.0110	3.0200e-003	9.0000e-005	3.1100e-003	0.0000	12.0960	12.0960	2.3000e-004	0.0000	12.1018
<b>Total</b>	<b>5.4200e-003</b>	<b>3.2300e-003</b>	<b>0.0381</b>	<b>1.3000e-004</b>	<b>0.0109</b>	<b>9.0000e-005</b>	<b>0.0110</b>	<b>3.0200e-003</b>	<b>9.0000e-005</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>12.0960</b>	<b>12.0960</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>12.1018</b>

**3.6 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	7.9055					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>7.9500</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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**3.6 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	6.6000e-003	3.7800e-003	0.0454	1.6000e-004	0.0215	1.2000e-004	0.0216	5.7100e-003	1.1000e-004	5.8200e-003	0.0000	14.9295	14.9295	2.7000e-004	0.0000	14.9363
<b>Total</b>	<b>6.6000e-003</b>	<b>3.7800e-003</b>	<b>0.0454</b>	<b>1.6000e-004</b>	<b>0.0215</b>	<b>1.2000e-004</b>	<b>0.0216</b>	<b>5.7100e-003</b>	<b>1.1000e-004</b>	<b>5.8200e-003</b>	<b>0.0000</b>	<b>14.9295</b>	<b>14.9295</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>14.9363</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	7.9055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3542	0.4783	7.8000e-004		0.0248	0.0248		0.0248	0.0248	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307
<b>Total</b>	<b>7.9210</b>	<b>0.3542</b>	<b>0.4783</b>	<b>7.8000e-004</b>		<b>0.0248</b>	<b>0.0248</b>		<b>0.0248</b>	<b>0.0248</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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**3.6 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	6.6000e-003	3.7800e-003	0.0454	1.6000e-004	0.0141	1.2000e-004	0.0142	3.8800e-003	1.1000e-004	3.9900e-003	0.0000	14.9295	14.9295	2.7000e-004	0.0000	14.9363
<b>Total</b>	<b>6.6000e-003</b>	<b>3.7800e-003</b>	<b>0.0454</b>	<b>1.6000e-004</b>	<b>0.0141</b>	<b>1.2000e-004</b>	<b>0.0142</b>	<b>3.8800e-003</b>	<b>1.1000e-004</b>	<b>3.9900e-003</b>	<b>0.0000</b>	<b>14.9295</b>	<b>14.9295</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>14.9363</b>

**3.6 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	7.9055					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>7.9500</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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**3.6 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	6.2700e-003	3.4700e-003	0.0423	1.6000e-004	0.0215	1.2000e-004	0.0216	5.7100e-003	1.1000e-004	5.8200e-003	0.0000	14.3858	14.3858	2.5000e-004	0.0000	14.3919
<b>Total</b>	<b>6.2700e-003</b>	<b>3.4700e-003</b>	<b>0.0423</b>	<b>1.6000e-004</b>	<b>0.0215</b>	<b>1.2000e-004</b>	<b>0.0216</b>	<b>5.7100e-003</b>	<b>1.1000e-004</b>	<b>5.8200e-003</b>	<b>0.0000</b>	<b>14.3858</b>	<b>14.3858</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>14.3919</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	7.9055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3542	0.4783	7.8000e-004		0.0248	0.0248		0.0248	0.0248	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307
<b>Total</b>	<b>7.9210</b>	<b>0.3542</b>	<b>0.4783</b>	<b>7.8000e-004</b>		<b>0.0248</b>	<b>0.0248</b>		<b>0.0248</b>	<b>0.0248</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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**3.6 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	6.2700e-003	3.4700e-003	0.0423	1.6000e-004	0.0141	1.2000e-004	0.0142	3.8800e-003	1.1000e-004	3.9900e-003	0.0000	14.3858	14.3858	2.5000e-004	0.0000	14.3919
<b>Total</b>	<b>6.2700e-003</b>	<b>3.4700e-003</b>	<b>0.0423</b>	<b>1.6000e-004</b>	<b>0.0141</b>	<b>1.2000e-004</b>	<b>0.0142</b>	<b>3.8800e-003</b>	<b>1.1000e-004</b>	<b>3.9900e-003</b>	<b>0.0000</b>	<b>14.3858</b>	<b>14.3858</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>14.3919</b>

**3.6 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	7.9055					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>7.9500</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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**3.6 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	5.9500e-003	3.1900e-003	0.0396	1.5000e-004	0.0215	1.1000e-004	0.0216	5.7100e-003	1.0000e-004	5.8100e-003	0.0000	13.9091	13.9091	2.3000e-004	0.0000	13.9147
<b>Total</b>	<b>5.9500e-003</b>	<b>3.1900e-003</b>	<b>0.0396</b>	<b>1.5000e-004</b>	<b>0.0215</b>	<b>1.1000e-004</b>	<b>0.0216</b>	<b>5.7100e-003</b>	<b>1.0000e-004</b>	<b>5.8100e-003</b>	<b>0.0000</b>	<b>13.9091</b>	<b>13.9091</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>13.9147</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	7.9055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3542	0.4783	7.8000e-004		0.0248	0.0248		0.0248	0.0248	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307
<b>Total</b>	<b>7.9210</b>	<b>0.3542</b>	<b>0.4783</b>	<b>7.8000e-004</b>		<b>0.0248</b>	<b>0.0248</b>		<b>0.0248</b>	<b>0.0248</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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**3.6 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	5.9500e-003	3.1900e-003	0.0396	1.5000e-004	0.0141	1.1000e-004	0.0142	3.8800e-003	1.0000e-004	3.9800e-003	0.0000	13.9091	13.9091	2.3000e-004	0.0000	13.9147
<b>Total</b>	<b>5.9500e-003</b>	<b>3.1900e-003</b>	<b>0.0396</b>	<b>1.5000e-004</b>	<b>0.0141</b>	<b>1.1000e-004</b>	<b>0.0142</b>	<b>3.8800e-003</b>	<b>1.0000e-004</b>	<b>3.9800e-003</b>	<b>0.0000</b>	<b>13.9091</b>	<b>13.9091</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>13.9147</b>

**3.6 Architectural Coating - 2028**

**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	7.8752					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0444	0.2978	0.4704	7.7000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.3846	66.3846	3.6200e-003	0.0000	66.4751
<b>Total</b>	<b>7.9196</b>	<b>0.2978</b>	<b>0.4704</b>	<b>7.7000e-004</b>		<b>0.0134</b>	<b>0.0134</b>		<b>0.0134</b>	<b>0.0134</b>	<b>0.0000</b>	<b>66.3846</b>	<b>66.3846</b>	<b>3.6200e-003</b>	<b>0.0000</b>	<b>66.4751</b>

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**3.6 Architectural Coating - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6100e-003	2.9200e-003	0.0371	1.5000e-004	0.0214	1.0000e-004	0.0215	5.6900e-003	9.0000e-005	5.7800e-003	0.0000	13.4415	13.4415	2.1000e-004	0.0000	13.4466
<b>Total</b>	<b>5.6100e-003</b>	<b>2.9200e-003</b>	<b>0.0371</b>	<b>1.5000e-004</b>	<b>0.0214</b>	<b>1.0000e-004</b>	<b>0.0215</b>	<b>5.6900e-003</b>	<b>9.0000e-005</b>	<b>5.7800e-003</b>	<b>0.0000</b>	<b>13.4415</b>	<b>13.4415</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>13.4466</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	7.8752					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3528	0.4764	7.7000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	66.3845	66.3845	3.6200e-003	0.0000	66.4751
<b>Total</b>	<b>7.8906</b>	<b>0.3528</b>	<b>0.4764</b>	<b>7.7000e-004</b>		<b>0.0247</b>	<b>0.0247</b>		<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>66.3845</b>	<b>66.3845</b>	<b>3.6200e-003</b>	<b>0.0000</b>	<b>66.4751</b>

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**3.6 Architectural Coating - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6100e-003	2.9200e-003	0.0371	1.5000e-004	0.0140	1.0000e-004	0.0141	3.8700e-003	9.0000e-005	3.9600e-003	0.0000	13.4415	13.4415	2.1000e-004	0.0000	13.4466
<b>Total</b>	<b>5.6100e-003</b>	<b>2.9200e-003</b>	<b>0.0371</b>	<b>1.5000e-004</b>	<b>0.0140</b>	<b>1.0000e-004</b>	<b>0.0141</b>	<b>3.8700e-003</b>	<b>9.0000e-005</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>13.4415</b>	<b>13.4415</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>13.4466</b>

**3.6 Architectural Coating - 2029**

**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	6.8756					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0388	0.2600	0.4107	6.7000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	57.9589	57.9589	3.1600e-003	0.0000	58.0379
<b>Total</b>	<b>6.9144</b>	<b>0.2600</b>	<b>0.4107</b>	<b>6.7000e-004</b>		<b>0.0117</b>	<b>0.0117</b>		<b>0.0117</b>	<b>0.0117</b>	<b>0.0000</b>	<b>57.9589</b>	<b>57.9589</b>	<b>3.1600e-003</b>	<b>0.0000</b>	<b>58.0379</b>



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**3.6 Architectural Coating - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-003	2.3500e-003	0.0304	1.3000e-004	0.0187	8.0000e-005	0.0188	4.9700e-003	8.0000e-005	5.0400e-003	0.0000	11.4189	11.4189	1.7000e-004	0.0000	11.4230
<b>Total</b>	<b>4.6000e-003</b>	<b>2.3500e-003</b>	<b>0.0304</b>	<b>1.3000e-004</b>	<b>0.0187</b>	<b>8.0000e-005</b>	<b>0.0188</b>	<b>4.9700e-003</b>	<b>8.0000e-005</b>	<b>5.0400e-003</b>	<b>0.0000</b>	<b>11.4189</b>	<b>11.4189</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>11.4230</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	6.8756					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0135	0.3080	0.4160	6.7000e-004		0.0216	0.0216		0.0216	0.0216	0.0000	57.9588	57.9588	3.1600e-003	0.0000	58.0378
<b>Total</b>	<b>6.8891</b>	<b>0.3080</b>	<b>0.4160</b>	<b>6.7000e-004</b>		<b>0.0216</b>	<b>0.0216</b>		<b>0.0216</b>	<b>0.0216</b>	<b>0.0000</b>	<b>57.9588</b>	<b>57.9588</b>	<b>3.1600e-003</b>	<b>0.0000</b>	<b>58.0378</b>

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**3.6 Architectural Coating - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-003	2.3500e-003	0.0304	1.3000e-004	0.0122	8.0000e-005	0.0123	3.3800e-003	8.0000e-005	3.4500e-003	0.0000	11.4189	11.4189	1.7000e-004	0.0000	11.4230
<b>Total</b>	<b>4.6000e-003</b>	<b>2.3500e-003</b>	<b>0.0304</b>	<b>1.3000e-004</b>	<b>0.0122</b>	<b>8.0000e-005</b>	<b>0.0123</b>	<b>3.3800e-003</b>	<b>8.0000e-005</b>	<b>3.4500e-003</b>	<b>0.0000</b>	<b>11.4189</b>	<b>11.4189</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>11.4230</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Free-Standing Discount Superstore	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Manufacturing	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Free-Standing Discount	16.60	8.40	6.90	13.20	67.80	19.00	47.5	35.5	17
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Free-Standing Discount Superstore	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Industrial Park	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Manufacturing	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Other Asphalt Surfaces	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Other Non-Asphalt Surfaces	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Refrigerated Warehouse-No Rail	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Strip Mall	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Unrefrigerated Warehouse-No Rail	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	21,814.5893	21,814.5893	1.2586	0.2604	21,923.6514
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22,382.3540	22,382.3540	1.2913	0.2672	22,494.2546
NaturalGas Mitigated	0.6488	5.8984	4.9547	0.0354		0.4483	0.4483		0.4483	0.4483	0.0000	6,421.1476	6,421.1476	0.1231	0.1177	6,459.3053
NaturalGas Unmitigated	0.7028	6.3887	5.3665	0.0383		0.4855	0.4855		0.4855	0.4855	0.0000	6,954.8896	6,954.8896	0.1333	0.1275	6,996.2190

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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					
Free-Standing Discount Superstore	222000	1.2000e-003	0.0109	9.1400e-003	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	11.8468	11.8468	2.3000e-004	2.2000e-004	11.9172
Industrial Park	1.94986e+006	0.0105	0.0956	0.0803	5.7000e-004		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003	0.0000	104.0521	104.0521	1.9900e-003	1.9100e-003	104.6704
Manufacturing	2.75411e+007	0.1485	1.3501	1.1341	8.1000e-003		0.1026	0.1026		0.1026	0.1026	0.0000	1,469.6992	1,469.6992	0.0282	0.0269	1,478.4329
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	8.77518e+007	0.4732	4.3016	3.6133	0.0258		0.3269	0.3269		0.3269	0.3269	0.0000	4,682.7720	4,682.7720	0.0898	0.0859	4,710.5994
Strip Mall	58918.8	3.2000e-004	2.8900e-003	2.4300e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1441	3.1441	6.0000e-005	6.0000e-005	3.1628
Unrefrigerated Warehouse-No Rail	6.02275e+006	0.0650	0.5905	0.4960	3.5400e-003		0.0449	0.0449		0.0449	0.0449	0.0000	642.7933	642.7933	0.0123	0.0118	646.6131
Unrefrigerated Warehouse-No Rail	760479	4.1000e-003	0.0373	0.0313	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	40.5820	40.5820	7.8000e-004	7.4000e-004	40.8232
<b>Total</b>		<b>0.7028</b>	<b>6.3887</b>	<b>5.3665</b>	<b>0.0383</b>		<b>0.4855</b>	<b>0.4855</b>		<b>0.4855</b>	<b>0.4855</b>	<b>0.0000</b>	<b>6,954.8896</b>	<b>6,954.8896</b>	<b>0.1333</b>	<b>0.1275</b>	<b>6,996.2190</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					
Free-Standing Discount Superstore	164400	8.9000e-004	8.0600e-003	6.7700e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.7730	8.7730	1.7000e-004	1.6000e-004	8.8251
Industrial Park	1.3649e+006	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003	0.0000	72.8365	72.8365	1.4000e-003	1.3400e-003	73.2693
Manufacturing	2.3635e+007	0.1274	1.1586	0.9732	6.9500e-003		0.0881	0.0881		0.0881	0.0881	0.0000	1,261.2543	1,261.2543	0.0242	0.0231	1,268.7494
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	8.60989e+007	0.4643	4.2205	3.5453	0.0253		0.3208	0.3208		0.3208	0.3208	0.0000	4,594.5629	4,594.5629	0.0881	0.0842	4,621.8661
Strip Mall	43631.8	2.4000e-004	2.1400e-003	1.8000e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3284	2.3284	4.0000e-005	4.0000e-005	2.3422
Unrefrigerated Warehouse-No Rail	4.24262e+006	0.0458	0.4159	0.3494	2.5000e-003		0.0316	0.0316		0.0316	0.0316	0.0000	452.8052	452.8052	8.6800e-003	8.3000e-003	455.4960
Unrefrigerated Warehouse-No Rail	535707	2.8900e-003	0.0263	0.0221	1.6000e-004		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	28.5873	28.5873	5.5000e-004	5.2000e-004	28.7572
<b>Total</b>		<b>0.6488</b>	<b>5.8984</b>	<b>4.9547</b>	<b>0.0354</b>		<b>0.4483</b>	<b>0.4483</b>		<b>0.4483</b>	<b>0.4483</b>	<b>0.0000</b>	<b>6,421.1476</b>	<b>6,421.1476</b>	<b>0.1231</b>	<b>0.1177</b>	<b>6,459.3053</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Free-Standing Discount Superstore	1.263e+006	287.9617	0.0166	3.4400e-003	289.4014
Industrial Park	5.34948e+006	1,219.6715	0.0704	0.0146	1,225.7692
Manufacturing	8.60395e+006	1,961.6856	0.1132	0.0234	1,971.4931
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.77296e+007	15,442.2345	0.8909	0.1843	15,519.4380
Strip Mall	335200	76.4250	4.4100e-003	9.1000e-004	76.8071
Unrefrigerated Warehouse-No Rail	7.00181e+006	3,192.8017	0.1842	0.0381	3,208.7641
Unrefrigerated Warehouse-No Rail	884103	201.5739	0.0116	2.4100e-003	202.5817
<b>Total</b>		<b>22,382.3540</b>	<b>1.2913</b>	<b>0.2672</b>	<b>22,494.2546</b>



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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Free-Standing Discount Superstore	1.1256e+006	256.6348	0.0148	3.0600e-003	257.9178
Industrial Park	4.83195e+006	1,101.6759	0.0636	0.0132	1,107.1838
Manufacturing	8.04448e+006	1,834.1277	0.1058	0.0219	1,843.2975
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.71905e+007	15,319.3151	0.8838	0.1829	15,395.9041
Strip Mall	298734	68.1109	3.9300e-003	8.1000e-004	68.4514
Unrefrigerated Warehouse-No Rail	6.67249e+006	3,042.6318	0.1755	0.0363	3,057.8434
Unrefrigerated Warehouse-No Rail	842520	192.0931	0.0111	2.2900e-003	193.0535
<b>Total</b>		<b>21,814.5893</b>	<b>1.2586</b>	<b>0.2604</b>	<b>21,923.6514</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	11.7962	1.1000e-003	0.1220	1.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	0.2384	0.2384	6.1000e-004	0.0000	0.2538
Unmitigated	11.7962	1.1000e-003	0.1220	1.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	0.2384	0.2384	6.1000e-004	0.0000	0.2538

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	4.4616					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.3235					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0112	1.1000e-003	0.1220	1.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	0.2384	0.2384	6.1000e-004	0.0000	0.2538
<b>Total</b>	<b>11.7962</b>	<b>1.1000e-003</b>	<b>0.1220</b>	<b>1.0000e-005</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>0.2384</b>	<b>0.2384</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>0.2538</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	4.4616					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.3235					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0112	1.1000e-003	0.1220	1.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	0.2384	0.2384	6.1000e-004	0.0000	0.2538
<b>Total</b>	<b>11.7962</b>	<b>1.1000e-003</b>	<b>0.1220</b>	<b>1.0000e-005</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>0.2384</b>	<b>0.2384</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>0.2538</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,163.815 5	11.5938	0.2849	1,538.553 9
Unmitigated	1,163.815 5	11.5938	0.2849	1,538.553 9

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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Free-Standing Discount Superstore	5.33 / 0.246	18.1376	0.1746	4.3000e-003	23.7839
Industrial Park	12.9074 / 0	42.4141	0.4228	0.0104	56.0798
Manufacturing	31.0249 / 0	101.9485	1.0163	0.0250	134.7962
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	62.7543 / 0	206.2118	2.0556	0.0505	272.6529
Strip Mall	1.3397 / 0.054	4.5391	0.0439	1.0800e-003	5.9581
Unrefrigerated Warehouse-No Rail	240.584 / 0	790.5645	7.8807	0.1936	1,045.2830
<b>Total</b>		<b>1,163.8155</b>	<b>11.5938</b>	<b>0.2849</b>	<b>1,538.5539</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			
Free-Standing Discount Superstore	5.33 / 0.246	18.1376	0.1746	4.3000e-003	23.7839
Industrial Park	12.9074 / 0	42.4141	0.4228	0.0104	56.0798
Manufacturing	31.0249 / 0	101.9485	1.0163	0.0250	134.7962
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	62.7543 / 0	206.2118	2.0556	0.0505	272.6529
Strip Mall	1.3397 / 0.054	4.5391	0.0439	1.0800e-003	5.9581
Unrefrigerated Warehouse-No Rail	240.584 / 0	790.5645	7.8807	0.1936	1,045.2830
<b>Total</b>		<b>1,163.8155</b>	<b>11.5938</b>	<b>0.2849</b>	<b>1,538.5539</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,974.968 1	116.7173	0.0000	4,892.899 9
Unmitigated	1,974.968 1	116.7173	0.0000	4,892.899 9

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Free-Standing Discount Superstore	430.07	87.3003	5.1593	0.0000	216.2829
Industrial Park	696.78	141.4400	8.3589	0.0000	350.4117
Manufacturing	1051.12	213.3679	12.6097	0.0000	528.6098
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1593.64	323.4945	19.1180	0.0000	801.4440
Strip Mall	27.87	5.6574	0.3343	0.0000	14.0159
Unrefrigerated Warehouse-No Rail	5929.86	1,203.7080	71.1371	0.0000	2,982.1356
<b>Total</b>		<b>1,974.9681</b>	<b>116.7173</b>	<b>0.0000</b>	<b>4,892.8999</b>



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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Free-Standing Discount Superstore	430.07	87.3003	5.1593	0.0000	216.2829
Industrial Park	696.78	141.4400	8.3589	0.0000	350.4117
Manufacturing	1051.12	213.3679	12.6097	0.0000	528.6098
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1593.64	323.4945	19.1180	0.0000	801.4440
Strip Mall	27.87	5.6574	0.3343	0.0000	14.0159
Unrefrigerated Warehouse-No Rail	5929.86	1,203.7080	71.1371	0.0000	2,982.1356
<b>Total</b>		<b>1,974.9681</b>	<b>116.7173</b>	<b>0.0000</b>	<b>4,892.8999</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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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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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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