Initial Study/Mitigated Negative Declaration

Alta Cuvee Mixed Use Project

APPENDIX D
ENERGY RESOURCES IMPACTS ASSESSMENT

Technical Memorandum

TO: AECOM
c/o Kathalyn Tung, AICP

FROM: Terry A. Hayes Associates Inc.

DATE: August 11, 2021

RE: Energy Resources Impacts Assessment for the Alta Cuvee Mixed Use Project

SUMMARY

The purpose of this Technical Memorandum is to evaluate potential energy resource impacts in accordance with California Environmental Quality Act (CEQA) requirements for the Alta Cuvee Mixed-Use Project (proposed Project). The proposed Project would not result in a significant energy resource impact in the context of the Appendix G Environmental Checklist criteria of the CEQA Guidelines during construction or operational activities.

PROJECT DESCRIPTION

The proposed Project involves the construction of two four-story, 260-unit apartment community located at 12901-12939 Foothill Boulevard in the City of Rancho Cucamonga. The Project site is bound by Foothill Boulevard, a vacant lot, and condominiums to the north; Etiwanda Avenue and a shopping center to the west; and residential single-family homes to the south and east. The 5.56-acre vacant and undeveloped site is comprised of two parcels (Assessor's Parcel Numbers (APN) 0229-311-14 and 0229-311-15). **Figures 1** and **2** show the Regional Location and the Project Location, respectively. **Figure 3** illustrates the Site Plan.

The proposed Project would include two four-story buildings with 259 apartments units and one live-work unit. The center of the west building would have a courtyard with a pool and spa, and the center of the east building would have a courtyard. The proposed Project would also include commercial space totaling 3,339 square feet. Vehicular access to the Project site would be provided off Etiwanda Avenue and along eastbound Foothill Boulevard. Both locations would provide access to the surface parking area and to the south-facing entrance/exit of the subterranean garage. The proposed Project would provide 465 total parking spaces: 200 surface parking spaces and 265 garage parking spaces. The proposed Project would also construct an 11-foot wide and 62-foot long bus bay on eastbound Foothill Boulevard to accommodate the Omnitrans Transit Agency's bus transit Route 66 and other potential future bus service.

Figure 1: Regional Location

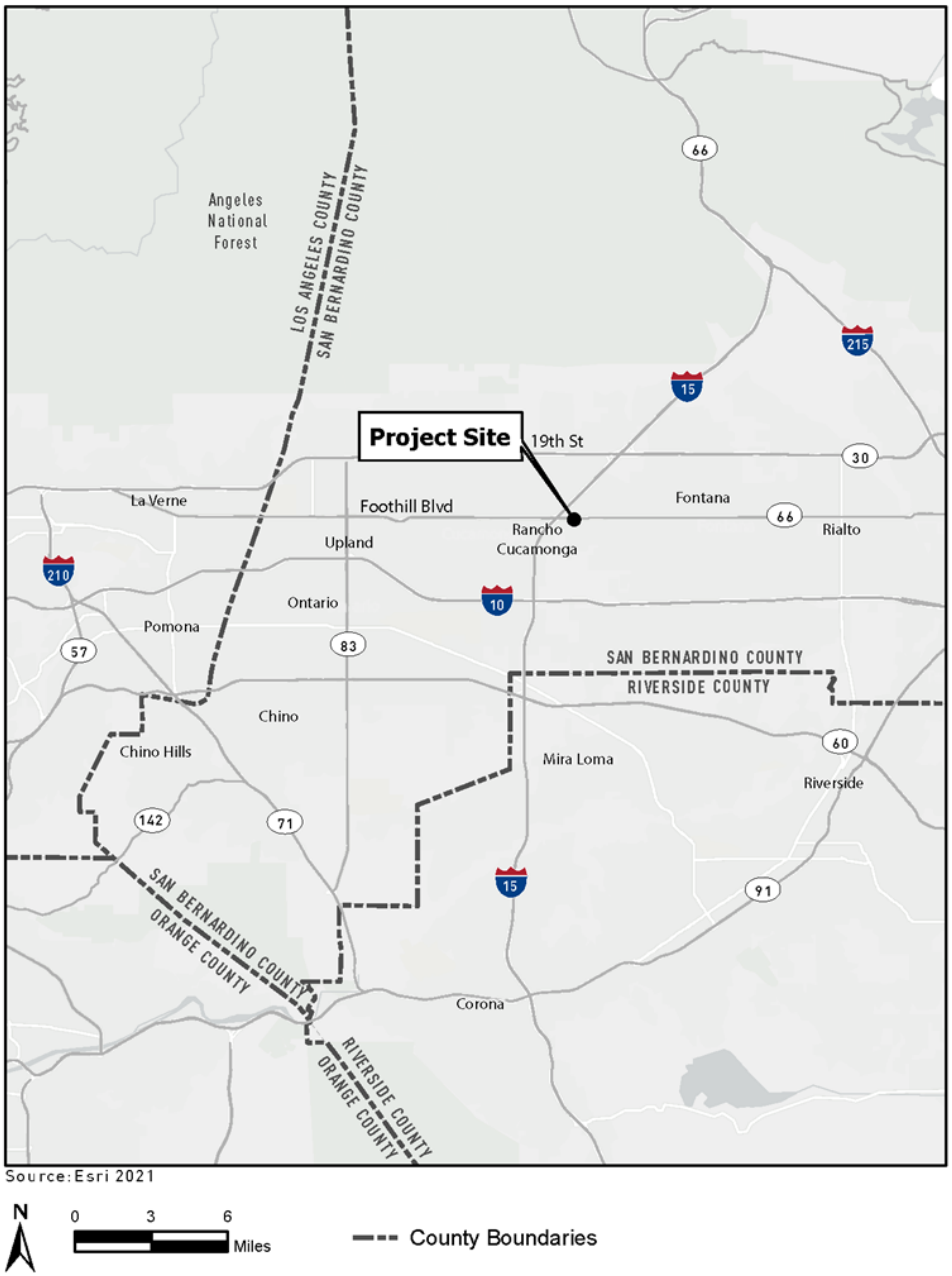
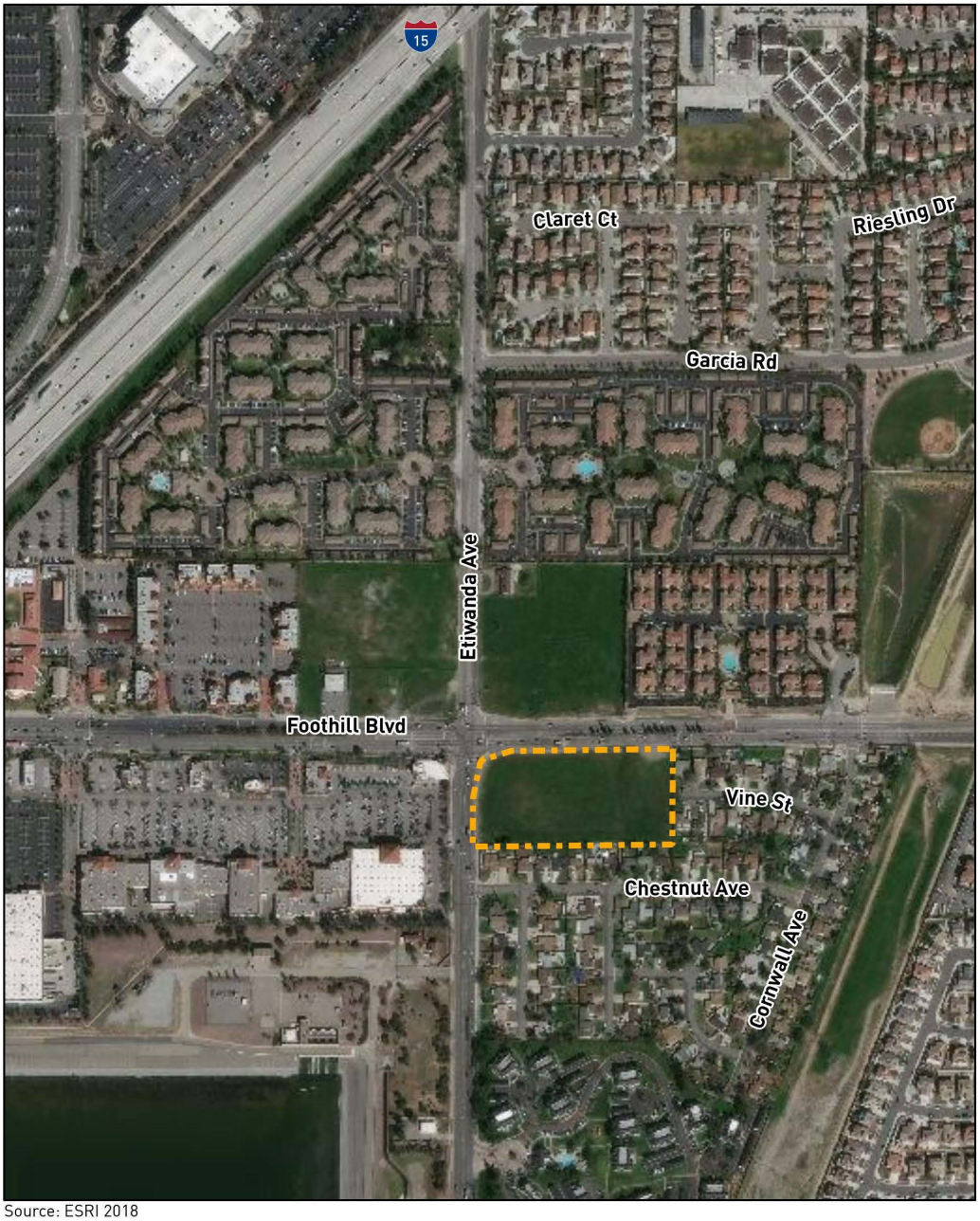


Figure 2: Project Location



Source: ESRI 2018

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0 400 800 Feet

Project Site

Figure 3: Site Plan



Construction of the proposed Project is anticipated to begin in March 2022 and take approximately 24 months to complete, concluding in early 2024. Construction activities would occur Monday through Saturday from 7:00 a.m. to 7:00 p.m. The construction period would include excavation and grading activities, installation of building foundations and utilities, and installation of landscaping and hardscape elements. Approximately, 52,010 cubic yards of material would be excavated as part of the proposed Project of which approximately 31,770 cubic yards would be hauled away from the Project site. Approximately 20,240 cubic yards of material would remain on the Project site to be used as backfill.

ENERGY TOPICAL INFORMATION

Transportation Fuels

California was the fourth largest producer of crude oil among the 50 states in 2017, after Texas, North Dakota, and Alaska, and, as of January 2018, third in oil refining capacity after Texas and Louisiana. In 2018, California produced approximately 169,166 thousand barrels of crude oil.[1] In California, approximately 16.3 billion gallons of gasoline and 4.3 billion gallons of diesel, including off-road diesel were sold and consumed in 2018. Approximately 97 percent of all gasoline consumed in California is utilized by light-duty cars, pickup trucks, and sport utility vehicles. Nearly all heavy-duty trucks, delivery vehicles, buses, trains, ships, boats and barges, farm, construction, and heavy-duty military vehicles have diesel engines.[2]

Electricity Supply

California consumed approximately 201,784,204 megawatt hours (mWh) of electricity in 2019.[3] Approximately 35 percent of electricity was consumed by residential users and 45 percent by commercial users. Industrial users consumed approximately 19 percent of electricity and approximately one percent was used to power vehicles. Electricity to the Project site will be provided by Rancho Cucamonga Municipal Utility (RCMU). RCMU's energy portfolio is made up of approximately 70.0 percent unspecified sources of power (electricity from transactions that are not traceable to specific generation sources), 23.7 percent renewables (wind, solar, eligible hydroelectric, and geothermal), and 6.3 percent large hydroelectric.[4]

Natural Gas

California consumed approximately 2,136,907 million cubic feet of natural gas in 2018.[5] Approximately 37 percent of natural gas was consumed by industrial users, followed by 30 percent for electric power generation, 20 percent for residential, 12 percent for commercial, and one percent for vehicle fuel in 2018.[6] Natural gas is provided and distributed to the Project area by the Southern California Gas Company (SoCalGas). According to the 2018 California Gas Report, SoCalGas is expected to provide an average of 5,738 million metric cubic feet (MMcf) per day by 2022. SoCalGas anticipates total gas demand to decline at an annual rate of 0.5 percent from 2018 to 2035. This decline in throughput demand can be attributed to modest economic growth, California Public Utilities Commission (CPUC) energy efficiency standards mandates and programs, tighter standards created by revised Title 24 Codes and

[1]U.S. Energy Information Administration, *California State Energy Profile2019*, November 2, 2020.
[2]California Energy Commission, *Energy Almanac*, https://www.energy.ca.gov/data-reports/energy-almanac, accessed October 13, 2020.
[3]U.S. Energy Information Administration, *California State Electricity Profile 2019*, November 2, 2020.
[4]Rancho Cucamonga Municipal Utility, 2019 Power Content Label, October 2020.
[5]U.S. Energy Information Administration, *California Natural Gas Consumption by End Use,* December 31, 2019.
[6]*Ibid.*

Standards, renewable electricity goals, the decline in commercial and industrial demand, and conservation savings linked to Advanced Metering Infrastructure.[7]

REGULATORY FRAMEWORK

The following provides a brief summary of energy regulations and policies. This is a not an exhaustive list of all regulations and policies.

Federal

Federal Energy Policy and Conservation Act. In 1975, Congress enacted the Federal Energy Policy and Conservation Act, which established the first fuel economy standards for on-road motor vehicles in the United States. Pursuant to the Act, the National Highway Traffic Safety Administration is responsible for establishing additional vehicle standards. In 2012, new fuel economy standards for passenger cars and light trucks were approved for model years 2017 through 2021 (77 *Federal Register* 62624–63200). Fuel economy is determined based on each manufacturer's average fuel economy for the fleet of vehicles available for sale in the United States.

Energy Independence and Security Act of 2007. On December 19, 2007, the Energy Independence and Security Act of 2007 (EISA) was signed into law. In addition to setting increased Corporate Average Fuel Economy standards for motor vehicles, the EISA includes the following provisions related to energy efficiency:

- Renewable Fuel Standard (RFS) (Section 202)
- Appliance and Lighting Efficiency Standards (Sections 301–325)
- Building Energy Efficiency (Sections 411–441)

This federal legislation requires ever-increasing levels of renewable fuels to replace petroleum. The U.S. Environmental Protection Agency (USEPA) is responsible for developing and implementing regulations to ensure that transportation fuel sold in the United States contains a minimum volume of renewable fuel. The RFS program regulations were developed in collaboration with refiners, renewable fuel producers, and many other stakeholders.

The RFS program was created under the Energy Policy Act of 2005 and established the first renewable fuel volume mandate in the United States. As required under the Act, the original RFS program (RFS1) required 7.5 billion gallons of renewable fuel to be blended into gasoline by 2012. Under the EISA, the RFS program was expanded in several key ways that lay the foundation for achieving significant reductions in greenhouse gas (GHG) emissions from the use of renewable fuels, reducing imported petroleum, and encouraging the development and expansion of the renewable fuels sector in the United States. The updated program is referred to as "RFS2" and includes the following:

- EISA expanded the RFS program to include diesel, in addition to gasoline.
- EISA increased the volume of renewable fuel required to be blended into transportation fuel from nine billion.
- EISA established new categories of renewable fuel, and set separate volume requirements for each one.
- EISA required the USEPA to apply lifecycle GHG performance threshold standards to ensure that each category of renewable fuel emits fewer GHGs than the petroleum fuel it replaces.

[7]California Gas and Electric Utilities, *2018 California Gas Report*, 2018.

Additional provisions of the EISA address energy savings in government and public institutions, research for alternative energy, additional research in carbon capture, international energy programs, and the creation of "green" jobs.

State

Warren-Alquist Act. The California Legislature passed the Warren-Alquist Act in 1974. The Warren-Alquist Act created the California Energy Commission (CEC). The legislation also incorporated the following three key provisions designed to address the demand side of the energy equation:

- It directed the CEC to formulate and adopt the nation's first energy conservation standards for both buildings constructed and appliances sold in California.
- The Act removed the responsibility of electricity demand forecasting from the utilities, which had a financial interest in high-demand projections, and transferred it to a more impartial CEC.
- The CEC was directed to embark on an ambitious research and development program, with a particular focus on fostering what were characterized as non-conventional energy sources.

State of California Energy Action Plan. The CEC and CPUC approved the first State of California Energy Action Plan in 2003. The plan established shared goals and specific actions to ensure that adequate, reliable, and reasonably priced electrical power and natural gas supplies are provided, and identified policies, strategies, and actions that are cost-effective and environmentally sound for California's consumers and taxpayers. In 2005, a second Energy Action Plan was adopted by the CEC and CPUC to reflect various policy changes and actions of the prior two years.

At the beginning of 2008, the CEC and CPUC determined that it was not necessary or productive to prepare a new energy action plan. This determination was based, in part, on a finding that the state's energy policies have been significantly influenced by the passage of Assembly Bill (AB) 32, the California Global Warming Solutions Act of 2006 (discussed below). Rather than produce a new energy action plan, the CEC and CPUC prepared an "update" that examines the state's ongoing actions in the context of global climate change.

Senate Bills 1078 (2002), 107 (2006), X1-2 (2011), 350 (2015), and 100 (2018). Senate Bill (SB) 1078 established the California Renewables Portfolio Standard (RPS) Program and required that a retail seller of electricity purchase a specified minimum percentage of electricity generated by eligible renewable energy resources as defined in any given year, culminating in a 20-percent standard by December 31, 2017. These retail sellers include electrical corporations, community choice aggregators, and electric service providers. The bill also required the CEC to certify eligible renewable energy resources, design and implement an accounting system to verify compliance with the RPS by retail sellers, and allocate and award supplemental energy payments to cover above-market costs of renewable energy. SB 107 accelerated the RPS established by SB 1078 by requiring that 20 percent of electricity retail sales be served by renewable energy resources by 2010 (not 2017). Additionally, SB X1-2 requires all California utilities to generate 33 percent of their electricity from eligible renewable energy resources by 2020. Specifically, SB X1-2 sets a three-stage compliance period: by December 31, 2013, 20 percent had to come from renewables; by December 31, 2016, 25 percent had to come from renewables; and by December 31, 2020, 33 percent will come from renewables.

SB 350 expanded the RPS because it requires retail seller and publicly owned utilities to procure 50 percent of their electricity from eligible renewable energy resources by 2030, with interim goals of 40 percent by 2024 and 45 percent by 2027.

SB 100 accelerated and expanded the standards set forth in SB 350 by establishing that 44 percent of the total electricity sold to retail customers in California per year by December 31, 2024, 52 percent by December 31, 2027, and 60 percent by December 31, 2030 be secured from qualifying renewable energy sources. SB 100 also states that it is the policy of the state that eligible renewable energy resources and zero-carbon resources supply 100 percent of the retail sales of electricity to California. This bill requires that the achievement of 100 percent zero-carbon electricity resources does not increase the carbon emissions elsewhere in the western grid and that the achievement not be achieved through resource shuffling.

Consequently, utility energy generation from non-renewable resources is expected to be reduced based on implementation of the 60-percent RPS in 2030. Therefore, any project's reliance on non-renewable energy sources would also be reduced.

Assembly Bill 1007 (2005). Assembly Bill (AB) 1007 required the CEC to prepare a statewide plan to increase the use of alternative fuels in California (State Alternative Fuels Plan). The CEC prepared the plan in partnership with the California Air Resources Board (CARB) and in consultation with other state agencies, plus federal and local agencies. The State Alternative Fuels Plan assessed various alternative fuels and developed fuel portfolios to meet California's goals to reduce petroleum consumption, increase alternative fuels use, reduce GHG emissions, and increase in-state production of biofuels without causing significant degradation of public health and environmental quality.

Assembly Bill 32 (2006) and Senate Bill 32 (2016). In 2006, the State Legislature enacted AB 32, the California Global Warming Solutions Act of 2006. AB 32 requires California to reduce its GHG emissions to 1990 levels by 2020. In 2016, the Legislature enacted SB 32, which extended the horizon year of the state's codified GHG reduction planning targets from 2020 to 2030, requiring California to reduce its GHG emissions to 40 percent below 1990 levels by 2030. In accordance with AB 32 and SB 32, CARB prepares scoping plans to guide the development of statewide policies and regulations for the reduction of GHG emissions. Many of the policy and regulatory concepts identified in the scoping plans focus on increasing energy efficiencies, using renewable resources, and reducing the consumption of petroleum-based fuels (such as gasoline and diesel). As such, the state's GHG emissions reduction planning framework creates co-benefits for energy-related resources.

California Building Energy Efficiency Standards (Title 24, Part 6). The California Building Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations, Title 24, Part 6) were adopted to ensure that building construction and system design and installation achieve energy efficiency and preserve outdoor and indoor environmental quality. The 2019 Title 24 Standards went into effect on January 1, 2020. The 2019 Title 24 Standards represent "challenging but achievable design and construction practices" that represent a major step towards meeting the Zero Net Energy (ZNE) goal." Homes built with the 2019 standards will use about 7 percent less energy due to energy efficiency measures versus those built under the 2016 standards. Once rooftop solar electricity generation is factored in, homes built under the 2019 standards will use about 53 percent less energy than those built under the 2016 standards. The California Building Code is updated triennially and is expected to become more energy efficient with each update.

California Green Building Standards (Title 24, Part 11). The California Green Building Standards Code (California Code of Regulations, Title 24, Part 11), commonly referred to as the CALGreen Code, includes mandatory measures related to energy efficiency, water efficiency and conservation, material conservation, resource efficiency, and environmental quality. Compliance with the CALGreen Code is enforced through the building permit process.

Integrated Energy Policy Report. The CEC is responsible for preparing integrated energy policy reports that identify emerging trends related to energy supply, demand, conservation, public health and safety, and maintenance of a healthy economy. The CEC's Integrated Energy Policy Report discusses the state's policy goals of decarbonizing buildings, doubling energy efficiency savings, and increasing flexibility in the electricity grid system to integrate more of renewable energy. Specific to the decarbonizing of building energy, the goal would be achieved by designing future commercial and residential buildings to source their energy almost entirely from electricity in place of natural gas. Regarding the increase in renewable energy flexibility, the goal would be achieved through increases in energy storage capacity within the state, increases in energy efficiency, and adjusting energy use to the time of day when the most amount of renewable energy is being generated. Over time as they are implemented, these policies and trends would serve to beneficially reduce the GHG emissions profile and energy consumption from projects. The latest version of the report was published in March 2021 and is titled *Final 2020 Integrated Energy Policy Report Update*.

State Vehicle Standards. In response to the transportation sector accounting for more than half of California's carbon dioxide (CO_2) emissions, AB 1493 was enacted in 2002. AB 1493 required CARB to set GHG emissions standards for passenger vehicles, light-duty trucks, and other vehicles determined by CARBto be vehicles whose primary use is noncommercial personal transportation in the state. The bill required that CARB set GHG emissions standards for motor vehicles manufactured in 2009 and all subsequent model years. The 2009-2012 standards resulted in a reduction in approximately 22 percent of GHG emissions compared to emissions from the 2002 fleet, and the 2013-2016 standards resulted in a reduction of approximately 30 percent.

In 2012, CARB approved a new emissions-control program for model years 2017 through 2025. The program combines the control of smog, soot, and global-warming gases with requirements for greater numbers of zero-emissions vehicles into a single package of standards called Advanced Clean Cars. By 2025, when the rules would be fully implemented, new automobiles would emit 34 percent fewer global-warming gases and 75 percent fewer smog-forming emissions. Although the focus of the state's vehicle standards is on the reduction of air pollutants and GHG emissions, one co-benefit of implementation of these standards is a reduced demand for petroleum-based fuels.

Sustainable Communities Strategy. The Sustainable Communities and Climate Protection Act of 2008, or SB 375, coordinates land use planning, regional transportation plans, and funding priorities to help California meet its GHG emissions reduction mandates established in AB 32. As codified in California Government Code Section 65080, SB 375 requires metropolitan planning organizations (MPOs; e.g., the Southern California Association of Governments [SCAG]) to include a Sustainable Communities Strategy (SCS) in their Regional Transportation Plan (RTP). The main focus of the SCS is to plan for growth in a fashion that will ultimately reduce GHG emissions, but the strategy is also part of a bigger effort to address other development issues, including transit and vehicle miles traveled, which influence the consumption of petroleum-based fuels.

Regional

Southern California Association of Governments (SCAG) 2020–2045 Regional Transportation Plan/ Sustainable Communities Strategy (RTP/SCS). The SCAG Regional Council formally adopted the *Connect SoCal 2020–2045 RTP/SCS* (Connect SoCal) on September 3, 2020. Rooted in the 2008 and 2012 RTP/SCS plans, Connect SoCal's "Core Vision" focuses on maintaining and enhancing management of the transportation network while also expanding mobility choices by creating hubs that connect housing, jobs, and transit accessibility. The "Core Vision" of Connect SoCal is organized into six key focus areas that expand upon progress made in the 2016 RTP/SCS: Sustainable Development, System Preservation and Resilience, Demand & System Management, Transit Backbone, Complete Streets, and

Goods Movement. Connect SoCal incorporates a range of best practices for increasing transportation choices, reducing dependence on personal automobiles, further improving air quality and reducing GHG emissions, and encouraging growth in walkable, mixed-use communities with convenient access to transit infrastructure and employment.

San Bernardino Regional Greenhouse Gas Reduction Plan. In response to State initiatives, an informal project partnership, led by the San Bernardino Council of Government, compiled a GHG emissions inventory and an evaluation of reduction measures that could be adopted by the 25 Partnership Cities of San Bernardino County. The Regional Reduction Plan forecasts each city's emissions to the year 2030, including for the City of Rancho Cucamonga. In addition to city-specific GHG emissions inventory, the Regional Reduction Plan includes a comprehensive list of measures applicable to the region and presented to each city to identify measures that would be feasible for implementation locally. Partnership cities provided a selection of potential GHG reduction strategies that were used to identify the level of reduction that would be achieved locally toward achieving a 2030 emissions reduction target.

Through the Regional Reduction Plan, the City selected a goal to reduce community GHG emissions to a level 40 percent below 2016 GHG emissions by 2030. Through policies in the City's 2010 General Plan and reduction measures identified in the Regional Reduction Plan, GHG emissions in the city would be reduced through implementation of the following general strategies:

- Promoting sustainable development that reduces environmental impacts;
- Working towards a sustainable jobs-housing balance;
- Implementing land use patterns and policies that incorporate smart growth practices;
- Reducing operational energy requirements through sustainable and complementary land use patterns;
- Promoting pedestrian-friendly development; and
- Supporting development projects that are designed to facilitate convenient access for pedestrians, bicycles, transit, and automobiles.

Resilient IE. Western Riverside Council of Governments (WRCOG) in partnership with the SBCOG/SBCTA developed the Resilient IE program to support regional and local efforts to prepare for and mitigate risks associated with climate adaptation and transportation infrastructure. The Resilient IE program includes six primary components:

- Establish a regional climate collaborative, referred to as the Inland Southern California Climate Collaborative (ISC3);
- Revise WRCOG's community vulnerability assessment and establish a vulnerability assessment for San Bernardino County;
- Develop city-level, climate-related transportation hazards and evacuation maps;
- Develop a climate resilient transportation infrastructure guidebook;
- Prepare a regional climate adaptation and resiliency general plan element template; and
- Serve as a pilot project to assess the community cost of downed or damaged transportation assets.

Through the development of the San Bernardino County Vulnerability Assessment and Adaptation Strategies, the Resilient IE program includes a vulnerability assessment that summarizes projected climate change—related hazards that would affect the county and cities within it. The project also includes a summary of climate change adaptation measures developed through a regional context for consideration by local agencies to implement in their own general plans or other planning documents.

Local

City of Rancho Cucamonga 2010 General Plan. The 2010 General Plan addresses the impact of communitywide activities on global warming and climate change within the Public Health and Safety chapter. Further, the 2010 General Plan Environmental Impact Report Climate Change section analyzes GHG emissions and climate change impacts associated with the implementation of the City's General Plan. The 2010 General Plan includes goals and policies to address vehicle trip reduction, energy conservation, water conservation, and reduction in solid waste generation. Motor vehicles represent the major source of regional emissions throughout the South Coast Air Basin and the City. Transportation and energy production (i.e., electricity generation) are the primary local activities associated with the generation of GHGs. The 2010 General Plan goals and policies for Public Health and Safety are designed to guide long-range planning decisions and daily activities to reduce emissions of GHGs and reduce the impact of local activities on climate change. Many actions identified in the 2010 General Plan undertaken by the City would also directly or indirectly reduce GHG emissions. These actions include building residential units near the Metrolink station, pursuing mixed-use development, supporting transit use, developing bicycle routes and trails, and supporting the use of alternative fuel vehicles in the City's vehicle fleet.

Rancho Cucamonga Sustainable Community Action Plan. As discussed previously, the City adopted the Sustainable Community Action Plan in 2017. The SAP uses the inventory and forecasts prepared through the Regional Reduction Plan to aspire to reduce GHG emissions 15 percent below 2008 levels by 2020. The City's SAP is a visionary document that identified a menu of goals and actions the City could take locally to reduce citywide GHG emissions in key areas, including transportation and mobility, land use and open space, energy efficiency and renewables, green building performance, water and wastewater, waste and recycling.

Greenhouse Gas Emissions and Climate Change Vulnerability Assessment Exiting Conditions Report. The City of Rancho Cucamonga has taken several steps to begin addressing climate change and reduce communitywide GHG emissions. These efforts include partnerships with regional agencies, including the SBCOG/SBCTA, to prepare the San Bernardino Regional Greenhouse Gas Reduction Plan and the City's Sustainable Community Action Plan, which identify strategies for reducing GHG emissions. Similarly, the Resilient IE program, developed through a partnership between WRCOG and SBCOG/SBCTA, identifies regional adaptation measures to assist cities in building resilience and adapting to anticipated climate change impacts. SBCOG/SBCTA is currently in the process of preparing an updated GHG inventory for the region for the year 2016.

The City's Greenhouse Gas Emissions and Climate Change Vulnerability Assessment includes two chapters. Chapter 1, Greenhouse Gas Emissions, includes a summary of climate change science and existing guidance for setting communitywide reduction targets, and developing plans for GHG reduction. Further, the chapter acknowledges the City's communitywide GHG emissions inventory. The inventory will provide an accounting of communitywide GHG emissions from activities within the city for a single year, forecast GHG emissions into the future consistent with State milestone years and the General Plan Update horizon year, and set emissions reduction targets consistent with State goals. Chapter 2, Climate Change Vulnerability Assessment, summarizes current and potential future climate-related impacts that may affect the City, evaluates how these impacts would potentially affect the community's populations, assets, and functions, and prioritizes how the City should address each vulnerability through the General Plan Update and Local Hazard Mitigation Plan.

EXISTING CONDITIONS

California contains abundant sources of nonrenewable and renewable energy. Nonrenewable resources include large crude oil and natural gas deposits that are located within six geological basins in the Central Valley and along the coast. Much of these reserves are concentrated in the southern San Joaquin Basin. Regarding renewable resources, the State leads the nation in net electricity generation from solar, geothermal, and biomass. California has considerable solar potential, especially in the southeastern deserts and several of the world's largest solar thermal plants are located in California's Mojave Desert. Although California's wind power potential is widespread, especially along the eastern and southern mountain ranges, much of the State is excluded from development of this resource because it is in wilderness areas, parks, or urban areas. The transportation sector is responsible for the most energy consumption of any sector within the State. More motor vehicles are registered in California than in any other state, and commute times in California rank among some of the longest in the country.

The Project area is characterized by low-rise single and multi-family residential structures with various commercial uses located along busier roadways in the neighborhood. The NRG Etiwanda Generating Station, a gas-fired power plant located approximately 0.9 mile south of the Project site, was retired from operations on June 1, 2018. No other electricity or natural gas facilities have been identified that may be affected by the Project. Electricity at the Project site would be provided by RCMU and natural gas by SoCalGas.

SIGNIFICANCE THRESHOLDS

This assessment was undertaken to determine whether construction or operation of the proposed Project would have the potential to result in significant environmental impacts related to Energy Resources in the context of the Appendix G Environmental Checklist criteria of the CEQA Statute and Guidelines. Implementation of the proposed Project may result in a significant environmental impact related to Energy Resources if the proposed Project would:

a) Result in potentially significant environment impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation; and/or
b) Conflict with or obstruct a State or local plan for renewable energy or energy efficiency.

METHODOLOGY

Appendix F of the CEQA Guidelines states that the goal of conserving energy implies the wise and efficient use of energy, to be achieved by decreasing overall per capita energy consumption; decreasing reliance on natural gas and oil; and increasing reliance on renewable energy resources. To assure energy implications are considered in project decisions, CEQA requires that environmental impact reports include a discussion of the potential energy impacts of proposed projects, with particular emphasis on avoiding or reducing inefficient, wasteful and unnecessary consumption of energy.

The air quality analysis prepared for the proposed project, included in the appendix for the environmental documentation, includes a quantification of construction-related carbon dioxide (CO_2) emissions using the California Emissions Estimator Model (CalEEMod, Version 2016.3.2). These emissions were used to estimate construction energy from CO_2 emission factors derived for the CARB GHG emissions inventory. The 2018 Climate Registry indicates that for gasoline fuel, approximately 8.78 kilograms of CO_2 are generated per gallon combusted, and for diesel fuel, approximately 10.21 kilograms of CO_2 are generated per gallon combusted. The fuel consumption was estimated from the equipment and vehicles that would be employed in construction activities. Diesel engines are installed in heavy-duty off-road construction

equipment and on-road haul trucks. Gasoline engines are typically found in passenger vehicles that would be used for construction worker daily commutes.

PROPOSED PROJECT IMPACT ASSESSMENT

a) Would the proposed Project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation? (Less-than-Significant Impact)

Electricity

Construction. Construction of the proposed Project would require electricity for security lighting, construction trailers, and operation of electrically powered hands tools. Consumption of electricity for construction would be minimal as the majority of construction equipment would be powered by diesel fuel rather than the electrical grid. Low-level safety lighting does not consume substantial electricity and trailers would be occupied intermittently during the construction process. The proposed Project would facilitate the construction of housing that would meet the needs of the City and electricity used during the construction process is not considered to be a wasteful, inefficient, or unnecessary consumption of electricity. Therefore, construction of the proposed Project would result in a less-than-significant impact.

Operation. Operation of the proposed Project would require electricity for indoor and outdoor lighting, appliances, elevators, and powering other equipment typically associated with multi-family housing. Maintenance activities during operations, such as landscape maintenance, would involve the use of electric or gas-powered equipment. In addition to on-site energy use, the proposed Project would result in transportation energy use associated with vehicle trips generated by multi-family residential uses. The proposed Project is estimated to consume 1,657,215 kWh of electricity per year. Compliance with all State and federal regulations, including the 2019 Title 6 of the California Energy Code and California Green Building Standards, would reduce and/or minimize the operational energy demands of the proposed project. The proposed Project is comparable to other multi-family residential developments of similar size and does not involve any characteristics or uses that would require more intensive electricity consumption, nor involve the use of equipment that would not conform to current emissions standards and related fuel efficiencies. Therefore, operation of the proposed Project would result in a less than significant impact related to wasteful, inefficient, or unnecessary consumption of electricity.

Natural Gas

Construction. Construction activities typically do not require the consumption of natural gas to power equipment or heavy machinery. Natural gas to the Project site would be provided by SoCalGas. Natural gas that would be consumed during construction would be negligible and would not result in a significant drain on natural gas resources. Therefore, construction of the proposed Project would result in a less than significant impact related to wasteful, inefficient, or unnecessary consumption of natural gas.

Operation. SoCalGas reports a declining use in natural gas per meter for residential customers due to conservation measures, Title 24 standards, improved building and appliance standards, aggressive energy efficiency programs, and demand reductions anticipated. Natural gas use associated with operation of the proposed Project would be typical of multi-family residential uses, including heating, ventilation, and air conditioning, machinery, appliances, and more. The proposed Project is estimated to consume 3,647.8 MMBTUs per year of natural gas. The proposed Project would comply with all regional, State, and federal regulations related to natural gas consumption efficiency, and the proposed Project does not involve any uses that would require more intensive natural gas consumption than comparable activities or

would lead to wasteful natural gas consumption. Therefore, operation of the proposed Project would not result in a significant impact related to wasteful, inefficient, or unnecessary consumption of natural gas.

Petroleum

Construction. Petroleum would be consumed during the demolition, excavation, and construction phases of the proposed Project by heavy-duty equipment, which is usually diesel powered. Construction of the proposed Project would result in an increased consumption of gasoline and diesel fuels associated with haul trucks, deliveries, and worker commute trips. **Table 1** shows that a one-time expenditure of approximately 233,504 gallons of diesel fuel and 98,802 gallons of gasoline would be needed to construct the proposed project.

TABLE 1: CONSTRUCTION PETROLEUM DEMAND

Source	CO_2 (kg)	Gallons/kgCO_2	Gallons
DIESEL			
Equipment	1,666,070	0.098	163,181
Trucks	717,992	0.098	70,323
		Total Diesel Consumption	**233,504**
GASOLINE			
Worker Vehicles	867,479	0.114	98,802
		Total Gasoline Consumption	**98,802**

SOURCE: The Climate Registry, 2018; TAHA, 2021.

The proposed Project would use best practices to eliminate the potential for the wasteful consumption of petroleum. Exported materials (e.g., demolition debris and soil hauling) would be disposed of at the closest facility that accepts such materials, and the proposed Project would be required to comply with CARB's Airborne Toxics Control Measure, which restricts heavy-duty diesel vehicle idling time to five minutes. Compliance with State and federal regulations would reduce and/or minimize short-term petroleum consumption during the project's construction to the extent feasible, and project construction would not result in a wasteful or inefficient use of petroleum. Therefore, because petroleum use would be minimized to the extent feasible, construction of the proposed Project would result in a less than significant impact related to wasteful, inefficient, or unnecessary consumption of petroleum-based fuels.

Operation. Petroleum consumption during operation of the proposed Project would be related to vehicle trips for residents and employees to driving to and from the Project site. Operational proposed Project activities would generate approximately 1,503 daily vehicle trips producing 16,382.7 daily vehicle miles traveled. The Project site is located within 0.5 mile of a stop on the Omnitrans Route 66 alignment which provides 15-minute headways along Foothill Boulevard during commute periods. Due to the 15-minute headways, Foothill Boulevard is classified as a high-quality transit corridor, and the proposed Project is located within a Transit Priority Area (TPA). The land use growth assumed in the RTP/SCS includes an increase in multi-family housing units in the project location greater than the number of multi-family housing units proposed, which indicates the project is consistent with the RTP/SCS. There are no unusual project characteristics or processes that would require more intensive petroleum consumption than is used for comparable multi-family residential projects, or the use of equipment that would not conform to current emissions standards and related fuel efficiencies. In addition, the proposed Project includes 15 electric vehicle charging stations in the subterranean parking garage, which would lessen long-term petroleum consumption. Implementation of the proposed Project would not require the development of

additional petroleum fuels infrastructure or supply. Therefore, operation of the proposed Project would not result in a significant impact related to wasteful, inefficient, or unnecessary consumption of petroleum.

Mitigation Measures

No mitigation measures are required.

b) Would the proposed Project conflict with or obstruct a State or local plan for renewable energy or energy efficiency? (Less-than-Significant Impact)

There is no potential for the proposed Project to conflict with renewable energy or energy efficiency plans. Electricity will be provided from the RCMU system, and RCMU must comply with the State mandate (SB 100) to provide 60 percent renewable energy by 2030 and 100 percent carbon free electricity by 2045. The proposed Project would be designed to exceed the 2019 Title 24 energy efficiency standards by approximately 7.2 percent in one building and by approximately 2.5 percent in the other. The proposed Project would also include enhanced wall and window insulation; high efficiency mechanical equipment, appliances, and lighting; water efficient landscaping and irrigation systems; and installation of electric vehicle charging stations in the subterranean parking garage. The proposed Project would comply with, and exceed, Title 24, Parts 6 and 11 of the California Code of Regulations. The proposed Project would be consistent with the existing Mixed-Use land use designation in the City's General Plan thereby ensuring consistency with RCMU long-term plans for renewable energy and energy efficiency. Regarding natural gas use, SoCalGas would provide natural gas to the Project site, and SoCalGas forecasts that a declining per meter consumption rate across Southern California will secure adequate future capacity.

The 2020-2045 RTP/SCS includes various policies and recommendations related to energy efficiency. As described above, the proposed Project would exceed the minimum building energy efficiency standards of Title 24. The proposed Project would also be consistent with RTP/SCS goals to reduce petroleum use by being locating in a TPA. The proposed Project would not conflict with the RTP/SCS.

Therefore, the proposed Project would result in a less than significant impact related to energy plans and energy efficiency.

Mitigation Measures

No mitigation measures are required.

REFERENCES

42 United States Code, *Section 13201 et seq. Energy Policy Act*, 2005.

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California State Legislature, *Assembly Bill 1007,* Enacted September 29, 2005.

California State Legislature, *Assembly Bill 1493,* Enacted July 22, 2002.

California State Legislature, *Assembly Bill 32*, Enacted September 27, 2006.

California State Legislature, *SB 375*, Enacted September 30, 2008.

California State Legislature, *Senate Bill 100,* Enacted September 10, 2018.

California State Legislature, *Senate Bill 107*, Enacted September 26, 2006.

California State Legislature, *Senate Bill 1078*, Enacted September 12, 2020.

California State Legislature, *Senate Bill 32*, Enacted September 8, 2016.

California State Legislature, *Senate Bill 350,* Enacted October 7, 2015.

California State, Legislature, *Senate Bill X1-2*, Enacted February 1, 2011.

County of San Bernardino, *Regional Greenhouse Gas Reduction* Plan, March 2021.

Rancho Cucamonga Municipal Utility, *2019 Power Content Label*, October 2020.

Southern California Association of Governments (SCAG), *2020-2045 Regional Transportation Plan/Sustainable Communities Strategy*, 2020.

The Climate Registry, *General Reporting Protocol*, 2019.

U.S. Energy Information Administration, *California Natural Gas Consumption by End Use*, December 31, 2019.

U.S. Energy Information Administration, *California State Electricity Profile 2019*, November 2, 2020.

U.S. Energy Information Administration, *California State Energy Profile*, November 15, 2018.

United States, Congress, *Energy Independence and Security Act of 2007*, 110th Congress, 19 December 19, 2007.

United States, Congress, *Energy Policy Act of 2005*, 109th Congress, enacted August 8, 2005.

United States, Congress, *Energy Policy and Conservation Act of 1975*, 94th Congress, enacted December 22, 1975.

Alta Cuvee Mixed-Use Project

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	7.60	1000sqft	0.00	4,900.00	0
Enclosed Parking with Elevator	265.00	Space	0.00	106,000.00	0
Parking Lot	200.00	Space	1.80	80,000.00	0
City Park	0.33	Acre	0.33	14,374.80	0
Recreational Swimming Pool	3.00	1000sqft	0.07	3,000.00	0
Apartments Mid Rise	259.00	Dwelling Unit	3.00	228,000.00	785
Condo/Townhouse	1.00	Dwelling Unit	0.00	1,570.00	3
Strip Mall	3.34	1000sqft	0.00	3,339.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.98	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Electricity supplied by Rancho Cucamonga Municipal Utility, which is not available as input selection. SCE used as surrogate.

Land Use - Site Plan; Project population

Construction Phase - Schedule Provided by Applicant.

Site Preparation = Grading - East Building
Grading = Grading - West Building
Off-road Equipment - Project Inventory

Off-road Equipment - Project Inventory

Off-road Equipment - Project Inventory

Off-road Equipment - Project Inventory

Off-road Equipment - Project Inventory

Off-road Equipment - Project Inventory
"Grading" - West Grading
Off-road Equipment - Project Inventory

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Project Inventory
"Site Preparation" = East Grading
Off-road Equipment - Project Inventory

Off-road Equipment - Project Inventory

Trips and VMT - Max 60 haul loads per day during excavation/trenching.
Assume 20 vendor deliveries per day during construction.
Approximately 50-300 workers on-site during construction.

Grading - 31,770 total exported

Architectural Coating - SCAQMD Building Envelope - 50 g/L

Vehicle Trips - 1,420 daily residential trips/259 apartments = 5.483 trips/du
83 daily shopping trips/3.339 ksf = 24.86 trips/ksf

Woodstoves - No Hearths

Area Coating - SCAQMD Building Envelope 50 g/L

Energy Use -

Water And Wastewater - Remove duplicate water use.

Solid Waste - Remove duplicate waste generation.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Mobile Land Use Mitigation - Electric Vehicle Charging Provided (Not Quantified)

Alta Cuvee Mixed-Use Project - San Bernardino-South Coast County, Annual

Area Mitigation - SCAQMD Rule 1113
Fleet Mix - Residential Trips

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tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
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tblConstructionPhase	NumDaysWeek	5.00	6.00

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tblConstructionPhase	NumDaysWeek	5.00	6.00
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tblFleetMix	HHD	0.07	0.00
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tblFleetMix	LDA	0.56	0.60
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tblFleetMix	LDT1	0.04	0.06
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tblFleetMix	LDT2	0.18	0.19
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tblFleetMix	MDV	0.11	0.12
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tblFleetMix	UBUS	1.4910e-003	0.00
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tblLandUse	LandUseSquareFeet	259,000.00	228,000.00
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tblLandUse	Population	741.00	785.00

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tblOffRoadEquipment	HorsePower	78.00	15.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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tblTripsAndVMT	WorkerTripNumber	15.00	40.00

tblTripsAndVMT	WorkerTripNumber	275.00	200.00
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tblVehicleTrips	CNW_TL	6.90	10.90
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tblVehicleTrips	HO_TL	8.70	10.90
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tblVehicleTrips	HS_TL	5.90	10.90
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tblWater	IndoorWaterUseRate	16,874,892.64	16,940,046.66
tblWater	IndoorWaterUseRate	177,429.43	0.00
tblWater	OutdoorWaterUseRate	10,638,519.27	10,679,594.63
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tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.4274	3.7962	3.4034	0.0100	0.3829	0.1315	0.5144	0.0906	0.1257	0.2164	0.0000	879.0733	879.0733	0.1097	0.0000	881.8168
2023	2.5835	7.6021	9.7058	0.0241	0.8649	0.2850	1.1499	0.2321	0.2764	0.5085	0.0000	2,084.1050	2,084.1050	0.2283	0.0000	2,089.8127
2024	0.1328	0.9128	1.1818	3.0900e-003	0.1247	0.0312	0.1559	0.0334	0.0306	0.0640	0.0000	264.4672	264.4672	0.0236	0.0000	265.0569
Maximum	**2.5835**	**7.6021**	**9.7058**	**0.0241**	**0.8649**	**0.2850**	**1.1499**	**0.2321**	**0.2764**	**0.5085**	**0.0000**	**2,084.1050**	**2,084.1050**	**0.2283**	**0.0000**	**2,089.8127**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.4274	3.7961	3.4034	0.0100	0.3362	0.1315	0.4677	0.0855	0.1257	0.2113	0.0000	879.0728	879.0728	0.1097	0.0000	881.8163
2023	2.5835	7.6021	9.7058	0.0241	0.8649	0.2850	1.1499	0.2321	0.2764	0.5085	0.0000	2,084.1037	2,084.1037	0.2283	0.0000	2,089.8114
2024	0.1328	0.9128	1.1818	3.0900e-003	0.1247	0.0312	0.1559	0.0334	0.0306	0.0640	0.0000	264.4671	264.4671	0.0236	0.0000	265.0568
Maximum	**2.5835**	**7.6021**	**9.7058**	**0.0241**	**0.8649**	**0.2850**	**1.1499**	**0.2321**	**0.2764**	**0.5085**	**0.0000**	**2,084.1037**	**2,084.1037**	**0.2283**	**0.0000**	**2,089.8114**

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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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**3.40**	**0.00**	**2.57**	**1.43**	**0.00**	**0.65**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**3-7-2022**	**6-6-2022**	1.1009	1.1009
2	**6-7-2022**	**9-6-2022**	1.0036	1.0036
3	**9-7-2022**	**12-6-2022**	1.4660	1.4660
4	**12-7-2022**	**3-6-2023**	1.7465	1.7465
5	**3-7-2023**	**6-6-2023**	2.2421	2.2421
6	**6-7-2023**	**9-6-2023**	3.0889	3.0889
7	**9-7-2023**	**12-6-2023**	3.1752	3.1752
8	**12-7-2023**	**3-6-2024**	1.4667	1.4667
9	**3-7-2024**	**6-6-2024**	0.0246	0.0246
		Highest	3.1752	3.1752

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0290	0.0309	2.6863	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3917	4.3917	4.2300e-003	0.0000	4.4976
Energy	0.0209	0.1788	0.0766	1.1400e-003		0.0145	0.0145		0.0145	0.0145	0.0000	671.8913	671.8913	0.0293	9.0400e-003	675.3175
Mobile	0.4888	0.9064	6.5430	0.0198	2.2287	0.0144	2.2431	0.5926	0.0133	0.6059	0.0000	1,792.3959	1,792.3959	0.0642	0.0000	1,794.0016
Waste						0.0000	0.0000		0.0000	0.0000	25.0897	0.0000	25.0897	1.4828	0.0000	62.1586
Water						0.0000	0.0000		0.0000	0.0000	5.9020	88.9445	94.8465	0.6110	0.0153	114.6869
Total	**1.5386**	**1.1161**	**9.3059**	**0.0211**	**2.2287**	**0.0437**	**2.2724**	**0.5926**	**0.0427**	**0.6352**	**30.9917**	**2,557.6235**	**2,588.6152**	**2.1916**	**0.0244**	**2,650.6622**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0290	0.0309	2.6863	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3917	4.3917	4.2300e-003	0.0000	4.4976
Energy	0.0197	0.1682	0.0720	1.0700e-003		0.0136	0.0136		0.0136	0.0136	0.0000	594.5472	594.5472	0.0255	8.0800e-003	597.5929
Mobile	0.4888	0.9064	6.5430	0.0198	2.2287	0.0144	2.2431	0.5926	0.0133	0.6059	0.0000	1,792.3959	1,792.3959	0.0642	0.0000	1,794.0016
Waste						0.0000	0.0000		0.0000	0.0000	25.0897	0.0000	25.0897	1.4828	0.0000	62.1586
Water						0.0000	0.0000		0.0000	0.0000	5.3708	77.5853	82.9561	0.5559	0.0139	100.9950
Total	**1.5374**	**1.1055**	**9.3013**	**0.0210**	**2.2287**	**0.0429**	**2.2716**	**0.5926**	**0.0418**	**0.6344**	**30.4605**	**2,468.9201**	**2,499.3806**	**2.1326**	**0.0220**	**2,559.2458**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.08**	**0.95**	**0.05**	**0.33**	**0.00**	**1.97**	**0.04**	**0.00**	**2.02**	**0.14**	**1.71**	**3.47**	**3.45**	**2.69**	**9.77**	**3.45**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/5/2022	3/18/2022	6	12	
2	Site Preparation	Grading	4/4/2022	4/30/2022	6	24	
3	Trenching/Utilities - East Building	Site Preparation	5/2/2022	5/28/2022	6	24	
4	Construction - East Building	Building Construction	5/30/2022	2/17/2024	6	540	
5	Grading	Grading	11/7/2022	11/26/2022	6	18	
6	Trenching/Utilities - West Building	Site Preparation	11/28/2022	12/10/2022	6	12	
7	Construction - West Building	Building Construction	12/12/2022	3/9/2024	6	390	
8	Paving - East Building	Paving	5/8/2023	9/9/2023	6	108	
9	Architectural Coatings - East Bldg	Architectural Coating	5/8/2023	7/29/2023	6	72	
10	Paving - West Building	Paving	8/7/2023	11/25/2023	6	96	
11	Architectural Coatings - West Bldg	Architectural Coating	9/11/2023	12/2/2023	6	72	

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 45

Acres of Paving: 1.8

Residential Indoor: 464,879; Residential Outdoor: 154,960; Non-Residential Indoor: 12,359; Non-Residential Outdoor: 4,120; Striped Parking Area: 11,160 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Generator Sets	2	4.00	84	0.74
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Crawler Tractors	2	8.00	212	0.43

Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rollers	2	8.00	80	0.38
Site Preparation	Scrapers	1	8.00	367	0.48
Trenching/Utilities - East Building	Crawler Tractors	2	8.00	212	0.43
Trenching/Utilities - East Building	Excavators	1	8.00	158	0.38
Trenching/Utilities - East Building	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching/Utilities - East Building	Trenchers	2	8.00	78	0.50
Construction - East Building	Air Compressors	10	8.00	15	0.48
Construction - East Building	Cranes	1	7.00	231	0.29
Construction - East Building	Generator Sets	2	8.00	84	0.74
Construction - East Building	Rough Terrain Forklifts	2	8.00	100	0.40
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Graders	1	8.00	187	0.41
Grading	Rollers	2	8.00	80	0.38
Grading	Scrapers	1	8.00	367	0.48
Trenching/Utilities - West Building	Crawler Tractors	2	8.00	212	0.43
Trenching/Utilities - West Building	Excavators	1	8.00	158	0.38
Trenching/Utilities - West Building	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching/Utilities - West Building	Trenchers	2	8.00	78	0.50
Construction - West Building	Air Compressors	10	8.00	15	0.48
Construction - West Building	Generator Sets	2	8.00	84	0.74
Construction - West Building	Rough Terrain Forklifts	2	8.00	100	0.40
Paving - East Building	Pavers	2	8.00	130	0.42
Paving - East Building	Paving Equipment	2	8.00	132	0.36
Paving - East Building	Rollers	2	8.00	80	0.38
Architectural Coatings - East Bldg	Air Compressors	4	6.00	78	0.48
Paving - West Building	Pavers	2	8.00	130	0.42

Paving - West Building	Paving Equipment	2	8.00	132	0.36
Paving - West Building	Rollers	2	8.00	80	0.38
Architectural Coatings - West Bldg	Air Compressors	4	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
Demolition	5	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching/Utilities - East Building	6	40.00	0.00	2,880.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Construction - East Building	15	200.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching/Utilities - West Building	6	40.00	0.00	1,440.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Construction - West Building	14	200.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving - East Building	6	40.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coatings - East Bldg	4	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving - West Building	6	40.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coatings - West Bldg	4	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.3300e-003	0.0551	0.0770	1.3000e-004		2.8400e-003	2.8400e-003		2.7500e-003	2.7500e-003	0.0000	10.9785	10.9785	1.7500e-003	0.0000	11.0222
Total	**6.3300e-003**	**0.0551**	**0.0770**	**1.3000e-004**		**2.8400e-003**	**2.8400e-003**		**2.7500e-003**	**2.7500e-003**	**0.0000**	**10.9785**	**10.9785**	**1.7500e-003**	**0.0000**	**11.0222**

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	1.0300e-003	7.5000e-004	7.8400e-003	2.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.1000e-004	0.0000	2.1051	2.1051	5.0000e-005	0.0000	2.1064
Total	**1.0300e-003**	**7.5000e-004**	**7.8400e-003**	**2.0000e-005**	**2.6300e-003**	**2.0000e-005**	**2.6500e-003**	**7.0000e-004**	**2.0000e-005**	**7.1000e-004**	**0.0000**	**2.1051**	**2.1051**	**5.0000e-005**	**0.0000**	**2.1064**

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.3300e-003	0.0551	0.0770	1.3000e-004		2.8400e-003	2.8400e-003		2.7500e-003	2.7500e-003	0.0000	10.9785	10.9785	1.7500e-003	0.0000	11.0222
Total	**6.3300e-003**	**0.0551**	**0.0770**	**1.3000e-004**		**2.8400e-003**	**2.8400e-003**		**2.7500e-003**	**2.7500e-003**	**0.0000**	**10.9785**	**10.9785**	**1.7500e-003**	**0.0000**	**11.0222**

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	1.0300e-003	7.5000e-004	7.8400e-003	2.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.1000e-004	0.0000	2.1051	2.1051	5.0000e-005	0.0000	2.1064
Total	**1.0300e-003**	**7.5000e-004**	**7.8400e-003**	**2.0000e-005**	**2.6300e-003**	**2.0000e-005**	**2.6500e-003**	**7.0000e-004**	**2.0000e-005**	**7.1000e-004**	**0.0000**	**2.1051**	**2.1051**	**5.0000e-005**	**0.0000**	**2.1064**

3.3 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					0.0318	0.0000	0.0318	3.4400e-003	0.0000	3.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0306	0.3560	0.1974	5.1000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	45.0455	45.0455	0.0146	0.0000	45.4097
Total	**0.0306**	**0.3560**	**0.1974**	**5.1000e-004**	**0.0318**	**0.0140**	**0.0458**	**3.4400e-003**	**0.0129**	**0.0163**	**0.0000**	**45.0455**	**45.0455**	**0.0146**	**0.0000**	**45.4097**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0700e-003	1.5000e-003	0.0157	5.0000e-005	5.2600e-003	3.0000e-005	5.3000e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.2102	4.2102	1.1000e-004	0.0000	4.2129
Total	**2.0700e-003**	**1.5000e-003**	**0.0157**	**5.0000e-005**	**5.2600e-003**	**3.0000e-005**	**5.3000e-003**	**1.4000e-003**	**3.0000e-005**	**1.4300e-003**	**0.0000**	**4.2102**	**4.2102**	**1.1000e-004**	**0.0000**	**4.2129**

3.3 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0124	0.0000	0.0124	1.3400e-003	0.0000	1.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0306	0.3560	0.1974	5.1000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	45.0454	45.0454	0.0146	0.0000	45.4096
Total	**0.0306**	**0.3560**	**0.1974**	**5.1000e-004**	**0.0124**	**0.0140**	**0.0264**	**1.3400e-003**	**0.0129**	**0.0142**	**0.0000**	**45.0454**	**45.0454**	**0.0146**	**0.0000**	**45.4096**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0700e-003	1.5000e-003	0.0157	5.0000e-005	5.2600e-003	3.0000e-005	5.3000e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.2102	4.2102	1.1000e-004	0.0000	4.2129
Total	**2.0700e-003**	**1.5000e-003**	**0.0157**	**5.0000e-005**	**5.2600e-003**	**3.0000e-005**	**5.3000e-003**	**1.4000e-003**	**3.0000e-005**	**1.4300e-003**	**0.0000**	**4.2102**	**4.2102**	**1.1000e-004**	**0.0000**	**4.2129**

3.4 Trenching/Utilities - East Building - 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					0.0139	0.0000	0.0139	1.5600e-003	0.0000	1.5600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.2667	0.1839	3.7000e-004		0.0133	0.0133		0.0122	0.0122	0.0000	32.3671	32.3671	0.0105	0.0000	32.6288
Total	**0.0249**	**0.2667**	**0.1839**	**3.7000e-004**	**0.0139**	**0.0133**	**0.0272**	**1.5600e-003**	**0.0122**	**0.0138**	**0.0000**	**32.3671**	**32.3671**	**0.0105**	**0.0000**	**32.6288**

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	8.2500e-003	0.3078	0.0524	1.0900e-003	0.0248	7.7000e-004	0.0256	6.8100e-003	7.4000e-004	7.5500e-003	0.0000	105.4147	105.4147	5.8500e-003	0.0000	105.5610
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0700e-003	1.5000e-003	0.0157	5.0000e-005	5.2600e-003	3.0000e-005	5.3000e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.2102	4.2102	1.1000e-004	0.0000	4.2129
Total	**0.0103**	**0.3093**	**0.0680**	**1.1400e-003**	**0.0300**	**8.0000e-004**	**0.0309**	**8.2100e-003**	**7.7000e-004**	**8.9800e-003**	**0.0000**	**109.6248**	**109.6248**	**5.9600e-003**	**0.0000**	**109.7739**

3.4 Trenching/Utilities - East Building - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.4300e-003	0.0000	5.4300e-003	6.1000e-004	0.0000	6.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.2667	0.1839	3.7000e-004		0.0133	0.0133		0.0122	0.0122	0.0000	32.3671	32.3671	0.0105	0.0000	32.6288
Total	**0.0249**	**0.2667**	**0.1839**	**3.7000e-004**	**5.4300e-003**	**0.0133**	**0.0187**	**6.1000e-004**	**0.0122**	**0.0129**	**0.0000**	**32.3671**	**32.3671**	**0.0105**	**0.0000**	**32.6288**

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	8.2500e-003	0.3078	0.0524	1.0900e-003	0.0248	7.7000e-004	0.0256	6.8100e-003	7.4000e-004	7.5500e-003	0.0000	105.4147	105.4147	5.8500e-003	0.0000	105.5610
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0700e-003	1.5000e-003	0.0157	5.0000e-005	5.2600e-003	3.0000e-005	5.3000e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.2102	4.2102	1.1000e-004	0.0000	4.2129
Total	**0.0103**	**0.3093**	**0.0680**	**1.1400e-003**	**0.0300**	**8.0000e-004**	**0.0309**	**8.2100e-003**	**7.7000e-004**	**8.9800e-003**	**0.0000**	**109.6248**	**109.6248**	**5.9600e-003**	**0.0000**	**109.7739**

3.5 Construction - East Building - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1960	1.6811	1.6789	3.2800e-003		0.0750	0.0750		0.0731	0.0731	0.0000	263.5845	263.5845	0.0433	0.0000	264.6670
Total	**0.1960**	**1.6811**	**1.6789**	**3.2800e-003**		**0.0750**	**0.0750**		**0.0731**	**0.0731**	**0.0000**	**263.5845**	**263.5845**	**0.0433**	**0.0000**	**264.6670**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1900e-003	0.3428	0.0682	9.8000e-004	0.0235	5.2000e-004	0.0240	6.7700e-003	5.0000e-004	7.2700e-003	0.0000	93.7047	93.7047	6.1500e-003	0.0000	93.8584
Worker	0.0801	0.0582	0.6078	1.8000e-003	0.2039	1.2900e-003	0.2052	0.0542	1.1900e-003	0.0554	0.0000	163.1432	163.1432	4.2500e-003	0.0000	163.2494
Total	**0.0892**	**0.4009**	**0.6760**	**2.7800e-003**	**0.2274**	**1.8100e-003**	**0.2292**	**0.0609**	**1.6900e-003**	**0.0626**	**0.0000**	**256.8479**	**256.8479**	**0.0104**	**0.0000**	**257.1079**

3.5 Construction - East Building - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1960	1.6811	1.6789	3.2800e-003		0.0750	0.0750		0.0731	0.0731	0.0000	263.5841	263.5841	0.0433	0.0000	264.6667
Total	**0.1960**	**1.6811**	**1.6789**	**3.2800e-003**		**0.0750**	**0.0750**		**0.0731**	**0.0731**	**0.0000**	**263.5841**	**263.5841**	**0.0433**	**0.0000**	**264.6667**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1900e-003	0.3428	0.0682	9.8000e-004	0.0235	5.2000e-004	0.0240	6.7700e-003	5.0000e-004	7.2700e-003	0.0000	93.7047	93.7047	6.1500e-003	0.0000	93.8584
Worker	0.0801	0.0582	0.6078	1.8000e-003	0.2039	1.2900e-003	0.2052	0.0542	1.1900e-003	0.0554	0.0000	163.1432	163.1432	4.2500e-003	0.0000	163.2494
Total	**0.0892**	**0.4009**	**0.6760**	**2.7800e-003**	**0.2274**	**1.8100e-003**	**0.2292**	**0.0609**	**1.6900e-003**	**0.0626**	**0.0000**	**256.8479**	**256.8479**	**0.0104**	**0.0000**	**257.1079**

3.5 Construction - East Building - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3147	2.6682	2.8038	5.5000e-003		0.1142	0.1142		0.1114	0.1114	0.0000	442.1541	442.1541	0.0720	0.0000	443.9546
Total	**0.3147**	**2.6682**	**2.8038**	**5.5000e-003**		**0.1142**	**0.1142**		**0.1114**	**0.1114**	**0.0000**	**442.1541**	**442.1541**	**0.0720**	**0.0000**	**443.9546**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0116	0.4433	0.0987	1.6000e-003	0.0393	4.3000e-004	0.0398	0.0114	4.1000e-004	0.0118	0.0000	152.8593	152.8593	8.2900e-003	0.0000	153.0665
Worker	0.1258	0.0878	0.9345	2.9100e-003	0.3421	2.1100e-003	0.3442	0.0909	1.9400e-003	0.0928	0.0000	263.3840	263.3840	6.3800e-003	0.0000	263.5436
Total	**0.1374**	**0.5311**	**1.0332**	**4.5100e-003**	**0.3814**	**2.5400e-003**	**0.3840**	**0.1022**	**2.3500e-003**	**0.1046**	**0.0000**	**416.2433**	**416.2433**	**0.0147**	**0.0000**	**416.6101**

3.5 Construction - East Building - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3147	2.6682	2.8038	5.5000e-003		0.1142	0.1142		0.1114	0.1114	0.0000	442.1536	442.1536	0.0720	0.0000	443.9540
Total	**0.3147**	**2.6682**	**2.8038**	**5.5000e-003**		**0.1142**	**0.1142**		**0.1114**	**0.1114**	**0.0000**	**442.1536**	**442.1536**	**0.0720**	**0.0000**	**443.9540**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0116	0.4433	0.0987	1.6000e-003	0.0393	4.3000e-004	0.0398	0.0114	4.1000e-004	0.0118	0.0000	152.8593	152.8593	8.2900e-003	0.0000	153.0665
Worker	0.1258	0.0878	0.9345	2.9100e-003	0.3421	2.1100e-003	0.3442	0.0909	1.9400e-003	0.0928	0.0000	263.3840	263.3840	6.3800e-003	0.0000	263.5436
Total	**0.1374**	**0.5311**	**1.0332**	**4.5100e-003**	**0.3814**	**2.5400e-003**	**0.3840**	**0.1022**	**2.3500e-003**	**0.1046**	**0.0000**	**416.2433**	**416.2433**	**0.0147**	**0.0000**	**416.6101**

3.5 Construction - East Building - 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	0.0408	0.3431	0.3759	7.4000e-004		0.0141	0.0141		0.0137	0.0137	0.0000	59.5180	59.5180	9.5900e-003	0.0000	59.7577
Total	**0.0408**	**0.3431**	**0.3759**	**7.4000e-004**		**0.0141**	**0.0141**		**0.0137**	**0.0137**	**0.0000**	**59.5180**	**59.5180**	**9.5900e-003**	**0.0000**	**59.7577**

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	1.5400e-003	0.0600	0.0128	2.1000e-004	5.3000e-003	6.0000e-005	5.3500e-003	1.5300e-003	6.0000e-005	1.5800e-003	0.0000	20.5543	20.5543	1.1200e-003	0.0000	20.5821
Worker	0.0160	0.0107	0.1171	3.8000e-004	0.0461	2.8000e-004	0.0463	0.0122	2.6000e-004	0.0125	0.0000	34.3054	34.3054	7.8000e-004	0.0000	34.3250
Total	**0.0175**	**0.0707**	**0.1299**	**5.9000e-004**	**0.0514**	**3.4000e-004**	**0.0517**	**0.0138**	**3.2000e-004**	**0.0141**	**0.0000**	**54.8597**	**54.8597**	**1.9000e-003**	**0.0000**	**54.9072**

3.5 Construction - East Building - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0408	0.3431	0.3759	7.4000e-004		0.0141	0.0141		0.0137	0.0137	0.0000	59.5179	59.5179	9.5900e-003	0.0000	59.7576
Total	**0.0408**	**0.3431**	**0.3759**	**7.4000e-004**		**0.0141**	**0.0141**		**0.0137**	**0.0137**	**0.0000**	**59.5179**	**59.5179**	**9.5900e-003**	**0.0000**	**59.7576**

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	1.5400e-003	0.0600	0.0128	2.1000e-004	5.3000e-003	6.0000e-005	5.3500e-003	1.5300e-003	6.0000e-005	1.5800e-003	0.0000	20.5543	20.5543	1.1200e-003	0.0000	20.5821
Worker	0.0160	0.0107	0.1171	3.8000e-004	0.0461	2.8000e-004	0.0463	0.0122	2.6000e-004	0.0125	0.0000	34.3054	34.3054	7.8000e-004	0.0000	34.3250
Total	**0.0175**	**0.0707**	**0.1299**	**5.9000e-004**	**0.0514**	**3.4000e-004**	**0.0517**	**0.0138**	**3.2000e-004**	**0.0141**	**0.0000**	**54.8597**	**54.8597**	**1.9000e-003**	**0.0000**	**54.9072**

3.6 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0239	0.0000	0.0239	2.5800e-003	0.0000	2.5800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2670	0.1480	3.8000e-004		0.0105	0.0105		9.6800e-003	9.6800e-003	0.0000	33.7841	33.7841	0.0109	0.0000	34.0573
Total	**0.0230**	**0.2670**	**0.1480**	**3.8000e-004**	**0.0239**	**0.0105**	**0.0344**	**2.5800e-003**	**9.6800e-003**	**0.0123**	**0.0000**	**33.7841**	**33.7841**	**0.0109**	**0.0000**	**34.0573**

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	1.5500e-003	1.1300e-003	0.0118	3.0000e-005	3.9500e-003	2.0000e-005	3.9700e-003	1.0500e-003	2.0000e-005	1.0700e-003	0.0000	3.1576	3.1576	8.0000e-005	0.0000	3.1597
Total	**1.5500e-003**	**1.1300e-003**	**0.0118**	**3.0000e-005**	**3.9500e-003**	**2.0000e-005**	**3.9700e-003**	**1.0500e-003**	**2.0000e-005**	**1.0700e-003**	**0.0000**	**3.1576**	**3.1576**	**8.0000e-005**	**0.0000**	**3.1597**

3.6 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.3100e-003	0.0000	9.3100e-003	1.0000e-003	0.0000	1.0000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2670	0.1480	3.8000e-004		0.0105	0.0105		9.6800e-003	9.6800e-003	0.0000	33.7841	33.7841	0.0109	0.0000	34.0572
Total	**0.0230**	**0.2670**	**0.1480**	**3.8000e-004**	**9.3100e-003**	**0.0105**	**0.0198**	**1.0000e-003**	**9.6800e-003**	**0.0107**	**0.0000**	**33.7841**	**33.7841**	**0.0109**	**0.0000**	**34.0572**

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	1.5500e-003	1.1300e-003	0.0118	3.0000e-005	3.9500e-003	2.0000e-005	3.9700e-003	1.0500e-003	2.0000e-005	1.0700e-003	0.0000	3.1576	3.1576	8.0000e-005	0.0000	3.1597
Total	**1.5500e-003**	**1.1300e-003**	**0.0118**	**3.0000e-005**	**3.9500e-003**	**2.0000e-005**	**3.9700e-003**	**1.0500e-003**	**2.0000e-005**	**1.0700e-003**	**0.0000**	**3.1576**	**3.1576**	**8.0000e-005**	**0.0000**	**3.1597**

3.7 Trenching/Utilities - West Building - 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					6.9600e-003	0.0000	6.9600e-003	7.8000e-004	0.0000	7.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0125	0.1334	0.0919	1.8000e-004		6.6500e-003	6.6500e-003		6.1200e-003	6.1200e-003	0.0000	16.1836	16.1836	5.2300e-003	0.0000	16.3144
Total	**0.0125**	**0.1334**	**0.0919**	**1.8000e-004**	**6.9600e-003**	**6.6500e-003**	**0.0136**	**7.8000e-004**	**6.1200e-003**	**6.9000e-003**	**0.0000**	**16.1836**	**16.1836**	**5.2300e-003**	**0.0000**	**16.3144**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.1200e-003	0.1539	0.0262	5.5000e-004	0.0124	3.9000e-004	0.0128	3.4000e-003	3.7000e-004	3.7700e-003	0.0000	52.7073	52.7073	2.9300e-003	0.0000	52.7805
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	1.0300e-003	7.5000e-004	7.8400e-003	2.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.1000e-004	0.0000	2.1051	2.1051	5.0000e-005	0.0000	2.1064
Total	**5.1500e-003**	**0.1547**	**0.0340**	**5.7000e-004**	**0.0150**	**4.1000e-004**	**0.0154**	**4.1000e-003**	**3.9000e-004**	**4.4800e-003**	**0.0000**	**54.8124**	**54.8124**	**2.9800e-003**	**0.0000**	**54.8870**

3.7 Trenching/Utilities - West Building - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7200e-003	0.0000	2.7200e-003	3.0000e-004	0.0000	3.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0125	0.1334	0.0919	1.8000e-004		6.6500e-003	6.6500e-003		6.1200e-003	6.1200e-003	0.0000	16.1835	16.1835	5.2300e-003	0.0000	16.3144
Total	**0.0125**	**0.1334**	**0.0919**	**1.8000e-004**	**2.7200e-003**	**6.6500e-003**	**9.3700e-003**	**3.0000e-004**	**6.1200e-003**	**6.4200e-003**	**0.0000**	**16.1835**	**16.1835**	**5.2300e-003**	**0.0000**	**16.3144**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.1200e-003	0.1539	0.0262	5.5000e-004	0.0124	3.9000e-004	0.0128	3.4000e-003	3.7000e-004	3.7700e-003	0.0000	52.7073	52.7073	2.9300e-003	0.0000	52.7805
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	1.0300e-003	7.5000e-004	7.8400e-003	2.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.1000e-004	0.0000	2.1051	2.1051	5.0000e-005	0.0000	2.1064
Total	**5.1500e-003**	**0.1547**	**0.0340**	**5.7000e-004**	**0.0150**	**4.1000e-004**	**0.0154**	**4.1000e-003**	**3.9000e-004**	**4.4800e-003**	**0.0000**	**54.8124**	**54.8124**	**2.9800e-003**	**0.0000**	**54.8870**

3.8 Construction - West Building - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0160	0.1297	0.1476	2.7000e-004		5.8900e-003	5.8900e-003		5.8200e-003	5.8200e-003	0.0000	21.5158	21.5158	2.9000e-003	0.0000	21.5883
Total	**0.0160**	**0.1297**	**0.1476**	**2.7000e-004**		**5.8900e-003**	**5.8900e-003**		**5.8200e-003**	**5.8200e-003**	**0.0000**	**21.5158**	**21.5158**	**2.9000e-003**	**0.0000**	**21.5883**

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	8.9000e-004	0.0332	6.6000e-003	9.0000e-005	2.2700e-003	5.0000e-005	2.3200e-003	6.6000e-004	5.0000e-005	7.0000e-004	0.0000	9.0682	9.0682	5.9000e-004	0.0000	9.0831
Worker	7.7500e-003	5.6300e-003	0.0588	1.7000e-004	0.0197	1.2000e-004	0.0199	5.2400e-003	1.2000e-004	5.3600e-003	0.0000	15.7881	15.7881	4.1000e-004	0.0000	15.7983
Total	**8.6400e-003**	**0.0388**	**0.0654**	**2.6000e-004**	**0.0220**	**1.7000e-004**	**0.0222**	**5.9000e-003**	**1.7000e-004**	**6.0600e-003**	**0.0000**	**24.8563**	**24.8563**	**1.0000e-003**	**0.0000**	**24.8814**

3.8 Construction - West Building - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0160	0.1297	0.1476	2.7000e-004		5.8900e-003	5.8900e-003		5.8200e-003	5.8200e-003	0.0000	21.5158	21.5158	2.9000e-003	0.0000	21.5883
Total	**0.0160**	**0.1297**	**0.1476**	**2.7000e-004**		**5.8900e-003**	**5.8900e-003**		**5.8200e-003**	**5.8200e-003**	**0.0000**	**21.5158**	**21.5158**	**2.9000e-003**	**0.0000**	**21.5883**

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	8.9000e-004	0.0332	6.6000e-003	9.0000e-005	2.2700e-003	5.0000e-005	2.3200e-003	6.6000e-004	5.0000e-005	7.0000e-004	0.0000	9.0682	9.0682	5.9000e-004	0.0000	9.0831
Worker	7.7500e-003	5.6300e-003	0.0588	1.7000e-004	0.0197	1.2000e-004	0.0199	5.2400e-003	1.2000e-004	5.3600e-003	0.0000	15.7881	15.7881	4.1000e-004	0.0000	15.7983
Total	**8.6400e-003**	**0.0388**	**0.0654**	**2.6000e-004**	**0.0220**	**1.7000e-004**	**0.0222**	**5.9000e-003**	**1.7000e-004**	**6.0600e-003**	**0.0000**	**24.8563**	**24.8563**	**1.0000e-003**	**0.0000**	**24.8814**

3.8 Construction - West Building - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2667	2.1474	2.5534	4.7100e-003		0.0925	0.0925		0.0914	0.0914	0.0000	372.9552	372.9552	0.0496	0.0000	374.1961
Total	**0.2667**	**2.1474**	**2.5534**	**4.7100e-003**		**0.0925**	**0.0925**		**0.0914**	**0.0914**	**0.0000**	**372.9552**	**372.9552**	**0.0496**	**0.0000**	**374.1961**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0116	0.4433	0.0987	1.6000e-003	0.0393	4.3000e-004	0.0398	0.0114	4.1000e-004	0.0118	0.0000	152.8593	152.8593	8.2900e-003	0.0000	153.0665
Worker	0.1258	0.0878	0.9345	2.9100e-003	0.3421	2.1100e-003	0.3442	0.0909	1.9400e-003	0.0928	0.0000	263.3840	263.3840	6.3800e-003	0.0000	263.5436
Total	**0.1374**	**0.5311**	**1.0332**	**4.5100e-003**	**0.3814**	**2.5400e-003**	**0.3840**	**0.1022**	**2.3500e-003**	**0.1046**	**0.0000**	**416.2433**	**416.2433**	**0.0147**	**0.0000**	**416.6101**

3.8 Construction - West Building - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2667	2.1474	2.5534	4.7100e-003		0.0925	0.0925		0.0914	0.0914	0.0000	372.9547	372.9547	0.0496	0.0000	374.1956
Total	**0.2667**	**2.1474**	**2.5534**	**4.7100e-003**		**0.0925**	**0.0925**		**0.0914**	**0.0914**	**0.0000**	**372.9547**	**372.9547**	**0.0496**	**0.0000**	**374.1956**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0116	0.4433	0.0987	1.6000e-003	0.0393	4.3000e-004	0.0398	0.0114	4.1000e-004	0.0118	0.0000	152.8593	152.8593	8.2900e-003	0.0000	153.0665
Worker	0.1258	0.0878	0.9345	2.9100e-003	0.3421	2.1100e-003	0.3442	0.0909	1.9400e-003	0.0928	0.0000	263.3840	263.3840	6.3800e-003	0.0000	263.5436
Total	**0.1374**	**0.5311**	**1.0332**	**4.5100e-003**	**0.3814**	**2.5400e-003**	**0.3840**	**0.1022**	**2.3500e-003**	**0.1046**	**0.0000**	**416.2433**	**416.2433**	**0.0147**	**0.0000**	**416.6101**

3.8 Construction - West Building - 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	0.0495	0.3981	0.4905	9.1000e-004		0.0163	0.0163		0.0161	0.0161	0.0000	71.7185	71.7185	9.3900e-003	0.0000	71.9533
Total	**0.0495**	**0.3981**	**0.4905**	**9.1000e-004**		**0.0163**	**0.0163**		**0.0161**	**0.0161**	**0.0000**	**71.7185**	**71.7185**	**9.3900e-003**	**0.0000**	**71.9533**

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	2.2100e-003	0.0857	0.0183	3.1000e-004	7.5700e-003	8.0000e-005	7.6500e-003	2.1800e-003	8.0000e-005	2.2600e-003	0.0000	29.3632	29.3632	1.5900e-003	0.0000	29.4031
Worker	0.0228	0.0153	0.1673	5.4000e-004	0.0658	4.0000e-004	0.0662	0.0175	3.7000e-004	0.0178	0.0000	49.0077	49.0077	1.1200e-003	0.0000	49.0358
Total	**0.0250**	**0.1010**	**0.1856**	**8.5000e-004**	**0.0734**	**4.8000e-004**	**0.0738**	**0.0197**	**4.5000e-004**	**0.0201**	**0.0000**	**78.3710**	**78.3710**	**2.7100e-003**	**0.0000**	**78.4388**

3.8 Construction - West Building - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0495	0.3981	0.4905	9.1000e-004		0.0163	0.0163		0.0161	0.0161	0.0000	71.7184	71.7184	9.3900e-003	0.0000	71.9532
Total	**0.0495**	**0.3981**	**0.4905**	**9.1000e-004**		**0.0163**	**0.0163**		**0.0161**	**0.0161**	**0.0000**	**71.7184**	**71.7184**	**9.3900e-003**	**0.0000**	**71.9532**

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	2.2100e-003	0.0857	0.0183	3.1000e-004	7.5700e-003	8.0000e-005	7.6500e-003	2.1800e-003	8.0000e-005	2.2600e-003	0.0000	29.3632	29.3632	1.5900e-003	0.0000	29.4031
Worker	0.0228	0.0153	0.1673	5.4000e-004	0.0658	4.0000e-004	0.0662	0.0175	3.7000e-004	0.0178	0.0000	49.0077	49.0077	1.1200e-003	0.0000	49.0358
Total	**0.0250**	**0.1010**	**0.1856**	**8.5000e-004**	**0.0734**	**4.8000e-004**	**0.0738**	**0.0197**	**4.5000e-004**	**0.0201**	**0.0000**	**78.3710**	**78.3710**	**2.7100e-003**	**0.0000**	**78.4388**

3.9 Paving - East Building - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0558	0.5504	0.7876	1.2300e-003		0.0276	0.0276		0.0254	0.0254	0.0000	108.1451	108.1451	0.0350	0.0000	109.0195
Paving	2.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0581**	**0.5504**	**0.7876**	**1.2300e-003**		**0.0276**	**0.0276**		**0.0254**	**0.0254**	**0.0000**	**108.1451**	**108.1451**	**0.0350**	**0.0000**	**109.0195**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0300e-003	0.1535	0.0342	5.5000e-004	0.0136	1.5000e-004	0.0138	3.9300e-003	1.4000e-004	4.0700e-003	0.0000	52.9128	52.9128	2.8700e-003	0.0000	52.9846
Worker	8.7100e-003	6.0800e-003	0.0647	2.0000e-004	0.0237	1.5000e-004	0.0238	6.2900e-003	1.3000e-004	6.4200e-003	0.0000	18.2343	18.2343	4.4000e-004	0.0000	18.2453
Total	**0.0127**	**0.1595**	**0.0989**	**7.5000e-004**	**0.0373**	**3.0000e-004**	**0.0376**	**0.0102**	**2.7000e-004**	**0.0105**	**0.0000**	**71.1471**	**71.1471**	**3.3100e-003**	**0.0000**	**71.2299**

3.9 Paving - East Building - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0558	0.5504	0.7876	1.2300e-003		0.0276	0.0276		0.0254	0.0254	0.0000	108.1450	108.1450	0.0350	0.0000	109.0194
Paving	2.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0581**	**0.5504**	**0.7876**	**1.2300e-003**		**0.0276**	**0.0276**		**0.0254**	**0.0254**	**0.0000**	**108.1450**	**108.1450**	**0.0350**	**0.0000**	**109.0194**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0300e-003	0.1535	0.0342	5.5000e-004	0.0136	1.5000e-004	0.0138	3.9300e-003	1.4000e-004	4.0700e-003	0.0000	52.9128	52.9128	2.8700e-003	0.0000	52.9846
Worker	8.7100e-003	6.0800e-003	0.0647	2.0000e-004	0.0237	1.5000e-004	0.0238	6.2900e-003	1.3000e-004	6.4200e-003	0.0000	18.2343	18.2343	4.4000e-004	0.0000	18.2453
Total	**0.0127**	**0.1595**	**0.0989**	**7.5000e-004**	**0.0373**	**3.0000e-004**	**0.0376**	**0.0102**	**2.7000e-004**	**0.0105**	**0.0000**	**71.1471**	**71.1471**	**3.3100e-003**	**0.0000**	**71.2299**

3.10 Architectural Coatings - East Bldg - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0276	0.1876	0.2608	4.3000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	36.7669	36.7669	2.2000e-003	0.0000	36.8219
Total	**0.7908**	**0.1876**	**0.2608**	**4.3000e-004**		**0.0102**	**0.0102**		**0.0102**	**0.0102**	**0.0000**	**36.7669**	**36.7669**	**2.2000e-003**	**0.0000**	**36.8219**

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	5.8100e-003	4.0500e-003	0.0431	1.3000e-004	0.0158	1.0000e-004	0.0159	4.1900e-003	9.0000e-005	4.2800e-003	0.0000	12.1562	12.1562	2.9000e-004	0.0000	12.1636
Total	**5.8100e-003**	**4.0500e-003**	**0.0431**	**1.3000e-004**	**0.0158**	**1.0000e-004**	**0.0159**	**4.1900e-003**	**9.0000e-005**	**4.2800e-003**	**0.0000**	**12.1562**	**12.1562**	**2.9000e-004**	**0.0000**	**12.1636**

3.10 Architectural Coatings - East Bldg - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0276	0.1876	0.2608	4.3000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	36.7668	36.7668	2.2000e-003	0.0000	36.8218
Total	**0.7908**	**0.1876**	**0.2608**	**4.3000e-004**		**0.0102**	**0.0102**		**0.0102**	**0.0102**	**0.0000**	**36.7668**	**36.7668**	**2.2000e-003**	**0.0000**	**36.8218**

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	5.8100e-003	4.0500e-003	0.0431	1.3000e-004	0.0158	1.0000e-004	0.0159	4.1900e-003	9.0000e-005	4.2800e-003	0.0000	12.1562	12.1562	2.9000e-004	0.0000	12.1636
Total	**5.8100e-003**	**4.0500e-003**	**0.0431**	**1.3000e-004**	**0.0158**	**1.0000e-004**	**0.0159**	**4.1900e-003**	**9.0000e-005**	**4.2800e-003**	**0.0000**	**12.1562**	**12.1562**	**2.9000e-004**	**0.0000**	**12.1636**

3.11 Paving - West Building - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0496	0.4892	0.7000	1.0900e-003		0.0245	0.0245		0.0225	0.0225	0.0000	96.1290	96.1290	0.0311	0.0000	96.9062
Paving	2.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0519**	**0.4892**	**0.7000**	**1.0900e-003**		**0.0245**	**0.0245**		**0.0225**	**0.0225**	**0.0000**	**96.1290**	**96.1290**	**0.0311**	**0.0000**	**96.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5800e-003	0.1364	0.0304	4.9000e-004	0.0121	1.3000e-004	0.0122	3.4900e-003	1.3000e-004	3.6200e-003	0.0000	47.0336	47.0336	2.5500e-003	0.0000	47.0974
Worker	7.7400e-003	5.4000e-003	0.0575	1.8000e-004	0.0211	1.3000e-004	0.0212	5.5900e-003	1.2000e-004	5.7100e-003	0.0000	16.2083	16.2083	3.9000e-004	0.0000	16.2181
Total	**0.0113**	**0.1418**	**0.0879**	**6.7000e-004**	**0.0332**	**2.6000e-004**	**0.0334**	**9.0800e-003**	**2.5000e-004**	**9.3300e-003**	**0.0000**	**63.2419**	**63.2419**	**2.9400e-003**	**0.0000**	**63.3155**

3.11 Paving - West Building - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0496	0.4892	0.7000	1.0900e-003		0.0245	0.0245		0.0225	0.0225	0.0000	96.1288	96.1288	0.0311	0.0000	96.9061
Paving	2.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0519**	**0.4892**	**0.7000**	**1.0900e-003**		**0.0245**	**0.0245**		**0.0225**	**0.0225**	**0.0000**	**96.1288**	**96.1288**	**0.0311**	**0.0000**	**96.9061**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5800e-003	0.1364	0.0304	4.9000e-004	0.0121	1.3000e-004	0.0122	3.4900e-003	1.3000e-004	3.6200e-003	0.0000	47.0336	47.0336	2.5500e-003	0.0000	47.0974
Worker	7.7400e-003	5.4000e-003	0.0575	1.8000e-004	0.0211	1.3000e-004	0.0212	5.5900e-003	1.2000e-004	5.7100e-003	0.0000	16.2083	16.2083	3.9000e-004	0.0000	16.2181
Total	**0.0113**	**0.1418**	**0.0879**	**6.7000e-004**	**0.0332**	**2.6000e-004**	**0.0334**	**9.0800e-003**	**2.5000e-004**	**9.3300e-003**	**0.0000**	**63.2419**	**63.2419**	**2.9400e-003**	**0.0000**	**63.3155**

3.12 Architectural Coatings - West Bldg - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0276	0.1876	0.2608	4.3000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	36.7669	36.7669	2.2000e-003	0.0000	36.8219
Total	**0.7908**	**0.1876**	**0.2608**	**4.3000e-004**		**0.0102**	**0.0102**		**0.0102**	**0.0102**	**0.0000**	**36.7669**	**36.7669**	**2.2000e-003**	**0.0000**	**36.8219**

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	5.8100e-003	4.0500e-003	0.0431	1.3000e-004	0.0158	1.0000e-004	0.0159	4.1900e-003	9.0000e-005	4.2800e-003	0.0000	12.1562	12.1562	2.9000e-004	0.0000	12.1636
Total	**5.8100e-003**	**4.0500e-003**	**0.0431**	**1.3000e-004**	**0.0158**	**1.0000e-004**	**0.0159**	**4.1900e-003**	**9.0000e-005**	**4.2800e-003**	**0.0000**	**12.1562**	**12.1562**	**2.9000e-004**	**0.0000**	**12.1636**

3.12 Architectural Coatings - West Bldg - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0276	0.1876	0.2608	4.3000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	36.7668	36.7668	2.2000e-003	0.0000	36.8218
Total	**0.7908**	**0.1876**	**0.2608**	**4.3000e-004**		**0.0102**	**0.0102**		**0.0102**	**0.0102**	**0.0000**	**36.7668**	**36.7668**	**2.2000e-003**	**0.0000**	**36.8218**

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	5.8100e-003	4.0500e-003	0.0431	1.3000e-004	0.0158	1.0000e-004	0.0159	4.1900e-003	9.0000e-005	4.2800e-003	0.0000	12.1562	12.1562	2.9000e-004	0.0000	12.1636
Total	**5.8100e-003**	**4.0500e-003**	**0.0431**	**1.3000e-004**	**0.0158**	**1.0000e-004**	**0.0159**	**4.1900e-003**	**9.0000e-005**	**4.2800e-003**	**0.0000**	**12.1562**	**12.1562**	**2.9000e-004**	**0.0000**	**12.1636**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4888	0.9064	6.5430	0.0198	2.2287	0.0144	2.2431	0.5926	0.0133	0.6059	0.0000	1,792.3959	1,792.3959	0.0642	0.0000	1,794.0016
Unmitigated	0.4888	0.9064	6.5430	0.0198	2.2287	0.0144	2.2431	0.5926	0.0133	0.6059	0.0000	1,792.3959	1,792.3959	0.0642	0.0000	1,794.0016

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,420.10	1,420.10	1420.10	5,634,377	5,634,377
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	83.03	83.03	83.03	329,439	329,439
Total	1,503.13	1,503.13	1,503.13	5,963,816	5,963,816

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.90	10.90	10.90	40.00	20.00	40.00	100	0	0
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse	14.70	5.90	8.70	40.00	20.00	40.00	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Strip Mall	10.90	10.90	10.90	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.600000	0.060000	0.190000	0.120000	0.015000	0.005000	0.000000	0.000000	0.000000	0.000000	0.010000	0.000000	0.000000
City Park	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Condo/Townhouse	0.600000	0.060000	0.190000	0.120000	0.015000	0.005000	0.000000	0.000000	0.000000	0.000000	0.010000	0.000000	0.000000
Enclosed Parking with Elevator	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
General Office Building	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Parking Lot	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Recreational Swimming Pool	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Strip Mall	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	399.8892	399.8892	0.0218	4.5100e-003	401.7783
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	464.9067	464.9067	0.0253	5.2400e-003	467.1028
NaturalGas Mitigated	0.0197	0.1682	0.0720	1.0700e-003		0.0136	0.0136		0.0136	0.0136	0.0000	194.6579	194.6579	3.7300e-003	3.5700e-003	195.8147
NaturalGas Unmitigated	0.0209	0.1788	0.0766	1.1400e-003		0.0145	0.0145		0.0145	0.0145	0.0000	206.9847	206.9847	3.9700e-003	3.7900e-003	208.2147

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	3.83167e+006	0.0207	0.1766	0.0751	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	204.4723	204.4723	3.9200e-003	3.7500e-003	205.6874
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	22663.5	1.2000e-004	1.0400e-003	4.4000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.2094	1.2094	2.0000e-005	2.0000e-005	1.2166
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	17003	9.0000e-005	8.3000e-004	7.0000e-004	1.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.9073	0.9073	2.0000e-005	2.0000e-005	0.9127
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	7412.58	4.0000e-005	3.6000e-004	3.1000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3956	0.3956	1.0000e-005	1.0000e-005	0.3979
Total		**0.0209**	**0.1788**	**0.0766**	**1.1500e-003**		**0.0144**	**0.0144**		**0.0144**	**0.0144**	**0.0000**	**206.9846**	**206.9846**	**3.9700e-003**	**3.8000e-003**	**208.2147**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	3.60468e+006	0.0194	0.1661	0.0707	1.0600e-003		0.0134	0.0134		0.0134	0.0134	0.0000	192.3593	192.3593	3.6900e-003	3.5300e-003	193.5024
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	21000.2	1.1000e-004	9.7000e-004	4.1000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1207	1.1207	2.0000e-005	2.0000e-005	1.1273
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	15302.7	8.0000e-005	7.5000e-004	6.3000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8166	0.8166	2.0000e-005	1.0000e-005	0.8215
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	6771.49	4.0000e-005	3.3000e-004	2.8000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3614	0.3614	1.0000e-005	1.0000e-005	0.3635
Total		**0.0197**	**0.1682**	**0.0720**	**1.0700e-003**		**0.0136**	**0.0136**		**0.0136**	**0.0136**	**0.0000**	**194.6579**	**194.6579**	**3.7400e-003**	**3.5700e-003**	**195.8147**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.18304e+006	285.4693	0.0156	3.2200e-003	286.8178
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	5642.06	1.3614	7.0000e-005	2.0000e-005	1.3679
Enclosed Parking with Elevator	621160	149.8872	8.1700e-003	1.6900e-003	150.5952
General Office Building	46648	11.2563	6.1000e-004	1.3000e-004	11.3094
Parking Lot	28000	6.7565	3.7000e-004	8.0000e-005	6.7884
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	42171.6	10.1761	5.5000e-004	1.1000e-004	10.2242
Total		**464.9067**	**0.0253**	**5.2500e-003**	**467.1028**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.05873e+006	255.4736	0.0139	2.8800e-003	256.6805
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	5157.02	1.2444	7.0000e-005	1.0000e-005	1.2503
Enclosed Parking with Elevator	505408	121.9560	6.6500e-003	1.3800e-003	122.5321
General Office Building	37970.1	9.1623	5.0000e-004	1.0000e-004	9.2055
Parking Lot	16800	4.0539	2.2000e-004	5.0000e-005	4.0730
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	33149.6	7.9991	4.4000e-004	9.0000e-005	8.0369
Total		**399.8892**	**0.0218**	**4.5100e-003**	**401.7783**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0290	0.0309	2.6863	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3917	4.3917	4.2300e-003	0.0000	4.4976
Unmitigated	1.0290	0.0309	2.6863	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3917	4.3917	4.2300e-003	0.0000	4.4976

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0763					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8715					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0812	0.0309	2.6863	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3917	4.3917	4.2300e-003	0.0000	4.4976
Total	**1.0290**	**0.0309**	**2.6863**	**1.4000e-004**		**0.0149**	**0.0149**		**0.0149**	**0.0149**	**0.0000**	**4.3917**	**4.3917**	**4.2300e-003**	**0.0000**	**4.4976**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0763					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8715					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0812	0.0309	2.6863	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3917	4.3917	4.2300e-003	0.0000	4.4976
Total	**1.0290**	**0.0309**	**2.6863**	**1.4000e-004**		**0.0149**	**0.0149**		**0.0149**	**0.0149**	**0.0000**	**4.3917**	**4.3917**	**4.2300e-003**	**0.0000**	**4.4976**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	82.9561	0.5559	0.0139	100.9950
Unmitigated	94.8465	0.6110	0.0153	114.6869

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	16.94 / 10.6796	87.2304	0.5565	0.0140	105.3009
City Park	0 / 0.393189	1.0541	6.0000e-005	1.0000e-005	1.0591
Condo/Townhouse	0.065154 / 0.0410754	0.3355	2.1400e-003	5.0000e-005	0.4050
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.35078 / 0	4.6727	0.0443	1.0900e-003	6.1028
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0 / 0.108747	0.2915	2.0000e-005	0.0000	0.2929
Strip Mall	0.247402 / 0.151634	1.2623	8.1300e-003	2.0000e-004	1.5262
Total		**94.8465**	**0.6111**	**0.0153**	**114.6869**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	15.4154 / 8.54368	76.2303	0.5062	0.0127	92.6596
City Park	0 / 0.314551	0.8433	5.0000e-005	1.0000e-005	0.8473
Condo/Townhouse	0.0592902 / 0.0328603	0.2932	1.9500e-003	5.0000e-005	0.3564
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.22921 / 0	4.2521	0.0403	9.9000e-004	5.5536
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0 / 0.0869977	0.2332	1.0000e-005	0.0000	0.2343
Strip Mall	0.225136 / 0.121307	1.1040	7.3900e-003	1.8000e-004	1.3439
Total		**82.9561**	**0.5559**	**0.0139**	**100.9950**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	25.0897	1.4828	0.0000	62.1586
Unmitigated	25.0897	1.4828	0.0000	62.1586

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	119.6	24.2777	1.4348	0.0000	60.1470
City Park	0.03	6.0900e-003	3.6000e-004	0.0000	0.0151
Condo/Townhouse	0.46	0.0934	5.5200e-003	0.0000	0.2313
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.51	0.7125	0.0421	0.0000	1.7652
Total		**25.0897**	**1.4828**	**0.0000**	**62.1586**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	119.6	24.2777	1.4348	0.0000	60.1470
City Park	0.03	6.0900e-003	3.6000e-004	0.0000	0.0151
Condo/Townhouse	0.46	0.0934	5.5200e-003	0.0000	0.2313
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.51	0.7125	0.0421	0.0000	1.7652
Total		**25.0897**	**1.4828**	**0.0000**	**62.1586**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Construction Activity Energy Calculations
Transportation Fuels Consumption

	Fuel Type	Emissions (MTCO2)	Emissions (kgCO2)	Conversion (kgCO2/gal)	Total Gallons	
Equipment	Diesel	1,666.1	1,666,070.4	10.21	**163,181**	**Diesel**
Hauling + Vendor	Diesel	718.0	717,992.2	10.21	**70,323**	**Diesel**
Worker	Gasoline	867.5	867,478.5	8.78	**98,802**	**Gasoline**
					233,504	**Diesel**

	CALEEMOD		Metric Tons	KG
Year	Phase	Source	CO2	CO2
2022	Demo	E	10.9785	10978.5
2022	Demo	H		0
2022	Demo	V		0
2022	Demo	W	2.1051	2105.1
2022	Grading - East Building	E	45.0454	45045.4
2022	Grading - East Building	H		0
2022	Grading - East Building	V		0
2022	Grading - East Building	W	4.2102	4210.2
2022	Trenching/Utilities - East Building	E	32.3671	32367.1
2022	Trenching/Utilities - East Building	H	105.4147	105414.7
2022	Trenching/Utilities - East Building	V		0
2022	Trenching/Utilities - East Building	W	4.2102	4210.2
2022	Construction - East Building	E	263.5841	263584.1
2022	Construction - East Building	H		0
2022	Construction - East Building	V	93.7047	93704.7
2022	Construction - East Building	W	163.1432	163143.2
2023	Construction - East Building	E	442.1536	442153.6
2023	Construction - East Building	H		0
2023	Construction - East Building	V	152.8593	152859.3
2023	Construction - East Building	W	263.384	263384
2024	Construction - East Building	E	59.5179	59517.9
2024	Construction - East Building	H		0
2024	Construction - East Building	V	20.5543	20554.3
2024	Construction - East Building	W	34.3054	34305.4
2022	Grading - West Building	E	33.7841	33784.1
2022	Grading - West Building	H		0
2022	Grading - West Building	V		0
2022	Grading - West Building	W	3.1576	3157.6
2022	Trenching/Utilities - West Building	E	16.1835	16183.5
2022	Trenching/Utilities - West Building	H	52.7073	52707.3
2022	Trenching/Utilities - West Building	V		0
2022	Trenching/Utilities - West Building	W	2.1051	2105.1
2022	Construction - West Building	E	21.5258	21525.8
2022	Construction - West Building	H		0
2022	Construction - West Building	V	9.0682	9068.2
2022	Construction - West Building	W	15.7881	15788.1
2023	Construction - West Building	E	372.9552	372955.2
2023	Construction - West Building	H		0
2023	Construction - West Building	V	152.8593	152859.3
2023	Construction - West Building	W	263.384	263384
2024	Construction - West Building	E	71.7185	71718.5
2024	Construction - West Building	H		0
2024	Construction - West Building	V	29.3632	29363.2
2024	Construction - West Building	W	49.0077	49007.7
2023	Paving - East Building	E	108.145	108145
2023	Paving - East Building	H		0
2023	Paving - East Building	V	52.9128	52912.8
2023	Paving - East Building	W	18.2343	18234.3
2023	Architectual Coatings - East	E	36.7688	36768.8
2023	Architectual Coatings - East	H		0
2023	Architectual Coatings - East	V		0

Construction Activity Energy Calculations
Transportation Fuels Consumption

2023	Architectual Coatings - East	W	12.1562	12156.2
2023	Paving - West Building	E	96.1288	96128.8
2023	Paving - West Building	H		0
2023	Paving - West Building	V	47.0336	47033.6
2023	Paving - West Building	W	16.2083	16208.3
2023	Architectual Coatings - West	E	36.7688	36768.8
2023	Architectual Coatings - West	H		0
2023	Architectual Coatings - West	V		0
2023	Architectual Coatings - West	W	12.1562	12156.2
2024	Bus Bay - Demo	E	3.6964	3696.4
2024	Bus Bay - Demo	H	0.7062	706.2
2024	Bus Bay - Demo	V		0
2024	Bus Bay - Demo	W	0.8173	817.3
2024	Bus Bay - Site Prep	E	5.4447	5444.7
2024	Bus Bay - Site Prep	H		0
2024	Bus Bay - Site Prep	V		0
2024	Bus Bay - Site Prep	W	1.6345	1634.5
2024	Bus Bay - Construction	E	7.8527	7852.7
2024	Bus Bay - Construction	H		0
2024	Bus Bay - Construction	V	0.7351	735.1
2024	Bus Bay - Construction	W	1.2259	1225.9
2024	Bus Bay - Paving	E	1.4515	1451.5
2024	Bus Bay - Paving	H		0
2024	Bus Bay - Paving	V	0.0735	73.5
2024	Bus Bay - Paving	W	0.2452	245.2

Alta Cuvee Bus Bay

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	471.24	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - SB 100 mandates 44% renewable by end of 2024.
SCE CO2 factor assumes 40% renewables when operations begin.
SCE 2019 power mix = 36% renewables

Land Use - Approximately 850 square feet + buffer.

Construction Phase - Schedule Provided

Off-road Equipment - Other material handling = concrete truck/pump.

Off-road Equipment - Project Inventory

Off-road Equipment - Project Inventory

Off-road Equipment - Project Inventory

Trips and VMT - Modeling accounts for 1 haul load/day during demolition.
Assume 10 workers/day throughout.

Demolition -

Grading -

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 Compliance

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	5.00	3.00
tblConstructionPhase	NumDays	1.00	20.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	471.24
tblTripsAndVMT	HaulingTripNumber	2.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00

tblTripsAndVMT	WorkerTripNumber	0.00	20.00
tblTripsAndVMT	WorkerTripNumber	18.00	20.00

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					
2024	0.0130	0.1034	0.1492	2.8000e-004	0.0134	4.2200e-003	0.0176	5.6800e-003	3.9700e-003	9.6400e-003	0.0000	23.7542	23.7542	5.1500e-003	0.0000	23.8830
Maximum	**0.0130**	**0.1034**	**0.1492**	**2.8000e-004**	**0.0134**	**4.2200e-003**	**0.0176**	**5.6800e-003**	**3.9700e-003**	**9.6400e-003**	**0.0000**	**23.7542**	**23.7542**	**5.1500e-003**	**0.0000**	**23.8830**

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					
2024	0.0130	0.1034	0.1492	2.8000e-004	8.6600e-003	4.2200e-003	0.0129	3.1300e-003	3.9700e-003	7.1000e-003	0.0000	23.7542	23.7542	5.1500e-003	0.0000	23.8830
Maximum	**0.0130**	**0.1034**	**0.1492**	**2.8000e-004**	**8.6600e-003**	**4.2200e-003**	**0.0129**	**3.1300e-003**	**3.9700e-003**	**7.1000e-003**	**0.0000**	**23.7542**	**23.7542**	**5.1500e-003**	**0.0000**	**23.8830**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**35.28**	**0.00**	**26.82**	**44.89**	**0.00**	**26.35**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-8-2024	4-7-2024	0.1034	0.1034
		Highest	0.1034	0.1034

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	8.0000e-005	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

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	8.0000e-005	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/8/2024	1/19/2024	5	10	
2	Site Preparation	Site Preparation	1/22/2024	2/16/2024	5	20	
3	Building Construction	Building Construction	2/19/2024	3/8/2024	5	15	
4	Paving	Paving	3/11/2024	3/13/2024	5	3	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.02

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

OffRoad Equipment

Alta Cuvee Bus Bay - San Bernardino-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	4.00	78	0.48
Demolition	Concrete/Industrial Saws	1	2.00	81	0.73
Demolition	Signal Boards	2	8.00	6	0.82
Demolition	Skid Steer Loaders	1	6.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Site Preparation	Plate Compactors	1	4.00	8	0.43
Site Preparation	Rubber Tired Dozers	1	1.00	247	0.40
Site Preparation	Signal Boards	2	8.00	6	0.82
Site Preparation	Skid Steer Loaders	1	6.00	65	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Other Material Handling Equipment	1	6.00	168	0.40
Building Construction	Rough Terrain Forklifts	1	6.00	100	0.40
Building Construction	Signal Boards	2	8.00	6	0.82
Building Construction	Skid Steer Loaders	1	6.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Signal Boards	2	8.00	6	0.82
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	20.00	0.00	20.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1000e-004	0.0000	2.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3400e-003	0.0192	0.0272	4.0000e-005		8.3000e-004	8.3000e-004		8.0000e-004	8.0000e-004	0.0000	3.6794	3.6794	6.8000e-004	0.0000	3.6964
Total	**2.3400e-003**	**0.0192**	**0.0272**	**4.0000e-005**	**2.1000e-004**	**8.3000e-004**	**1.0400e-003**	**3.0000e-005**	**8.0000e-004**	**8.3000e-004**	**0.0000**	**3.6794**	**3.6794**	**6.8000e-004**	**0.0000**	**3.6964**

3.2 Demolition - 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	4.0000e-005	1.4200e-003	3.2000e-004	1.0000e-005	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.7053	0.7053	3.0000e-005	0.0000	0.7062
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	3.8000e-004	2.5000e-004	2.7900e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.8168	0.8168	2.0000e-005	0.0000	0.8173
Total	**4.2000e-004**	**1.6700e-003**	**3.1100e-003**	**2.0000e-005**	**1.2700e-003**	**1.0000e-005**	**1.2700e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.5221**	**1.5221**	**5.0000e-005**	**0.0000**	**1.5235**

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					8.0000e-005	0.0000	8.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3400e-003	0.0192	0.0272	4.0000e-005		8.3000e-004	8.3000e-004		8.0000e-004	8.0000e-004	0.0000	3.6794	3.6794	6.8000e-004	0.0000	3.6964
Total	**2.3400e-003**	**0.0192**	**0.0272**	**4.0000e-005**	**8.0000e-005**	**8.3000e-004**	**9.1000e-004**	**1.0000e-005**	**8.0000e-004**	**8.1000e-004**	**0.0000**	**3.6794**	**3.6794**	**6.8000e-004**	**0.0000**	**3.6964**

3.2 Demolition - 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	4.0000e-005	1.4200e-003	3.2000e-004	1.0000e-005	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.7053	0.7053	3.0000e-005	0.0000	0.7062
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	3.8000e-004	2.5000e-004	2.7900e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.8168	0.8168	2.0000e-005	0.0000	0.8173
Total	**4.2000e-004**	**1.6700e-003**	**3.1100e-003**	**2.0000e-005**	**1.2700e-003**	**1.0000e-005**	**1.2700e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.5221**	**1.5221**	**5.0000e-005**	**0.0000**	**1.5235**

3.3 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5300e-003	0.0000	7.5300e-003	4.1400e-003	0.0000	4.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7600e-003	0.0344	0.0381	7.0000e-005		1.4300e-003	1.4300e-003		1.3400e-003	1.3400e-003	0.0000	5.4067	5.4067	1.5200e-003	0.0000	5.4447
Total	**3.7600e-003**	**0.0344**	**0.0381**	**7.0000e-005**	**7.5300e-003**	**1.4300e-003**	**8.9600e-003**	**4.1400e-003**	**1.3400e-003**	**5.4800e-003**	**0.0000**	**5.4067**	**5.4067**	**1.5200e-003**	**0.0000**	**5.4447**

3.3 Site Preparation - 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	7.6000e-004	5.1000e-004	5.5800e-003	2.0000e-005	2.1900e-003	1.0000e-005	2.2100e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.6336	1.6336	4.0000e-005	0.0000	1.6345
Total	**7.6000e-004**	**5.1000e-004**	**5.5800e-003**	**2.0000e-005**	**2.1900e-003**	**1.0000e-005**	**2.2100e-003**	**5.8000e-004**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**1.6336**	**1.6336**	**4.0000e-005**	**0.0000**	**1.6345**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.9400e-003	0.0000	2.9400e-003	1.6100e-003	0.0000	1.6100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7600e-003	0.0344	0.0381	7.0000e-005		1.4300e-003	1.4300e-003		1.3400e-003	1.3400e-003	0.0000	5.4067	5.4067	1.5200e-003	0.0000	5.4447
Total	**3.7600e-003**	**0.0344**	**0.0381**	**7.0000e-005**	**2.9400e-003**	**1.4300e-003**	**4.3700e-003**	**1.6100e-003**	**1.3400e-003**	**2.9500e-003**	**0.0000**	**5.4067**	**5.4067**	**1.5200e-003**	**0.0000**	**5.4447**

3.3 Site Preparation - 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	7.6000e-004	5.1000e-004	5.5800e-003	2.0000e-005	2.1900e-003	1.0000e-005	2.2100e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.6336	1.6336	4.0000e-005	0.0000	1.6345
Total	**7.6000e-004**	**5.1000e-004**	**5.5800e-003**	**2.0000e-005**	**2.1900e-003**	**1.0000e-005**	**2.2100e-003**	**5.8000e-004**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**1.6336**	**1.6336**	**4.0000e-005**	**0.0000**	**1.6345**

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	3.9900e-003	0.0367	0.0590	9.0000e-005		1.5500e-003	1.5500e-003		1.4400e-003	1.4400e-003	0.0000	7.7934	7.7934	2.3700e-003	0.0000	7.8528
Total	**3.9900e-003**	**0.0367**	**0.0590**	**9.0000e-005**		**1.5500e-003**	**1.5500e-003**		**1.4400e-003**	**1.4400e-003**	**0.0000**	**7.7934**	**7.7934**	**2.3700e-003**	**0.0000**	**7.8528**

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	6.0000e-005	2.1400e-003	4.6000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.7341	0.7341	4.0000e-005	0.0000	0.7351
Worker	5.7000e-004	3.8000e-004	4.1800e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2252	1.2252	3.0000e-005	0.0000	1.2259
Total	**6.3000e-004**	**2.5200e-003**	**4.6400e-003**	**2.0000e-005**	**1.8300e-003**	**1.0000e-005**	**1.8400e-003**	**4.9000e-004**	**1.0000e-005**	**5.1000e-004**	**0.0000**	**1.9593**	**1.9593**	**7.0000e-005**	**0.0000**	**1.9610**

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	3.9900e-003	0.0367	0.0590	9.0000e-005		1.5500e-003	1.5500e-003		1.4400e-003	1.4400e-003	0.0000	7.7934	7.7934	2.3700e-003	0.0000	7.8527
Total	**3.9900e-003**	**0.0367**	**0.0590**	**9.0000e-005**		**1.5500e-003**	**1.5500e-003**		**1.4400e-003**	**1.4400e-003**	**0.0000**	**7.7934**	**7.7934**	**2.3700e-003**	**0.0000**	**7.8527**

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	6.0000e-005	2.1400e-003	4.6000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.7341	0.7341	4.0000e-005	0.0000	0.7351
Worker	5.7000e-004	3.8000e-004	4.1800e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2252	1.2252	3.0000e-005	0.0000	1.2259
Total	**6.3000e-004**	**2.5200e-003**	**4.6400e-003**	**2.0000e-005**	**1.8300e-003**	**1.0000e-005**	**1.8400e-003**	**4.9000e-004**	**1.0000e-005**	**5.1000e-004**	**0.0000**	**1.9593**	**1.9593**	**7.0000e-005**	**0.0000**	**1.9610**

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	9.3000e-004	8.0900e-003	0.0108	2.0000e-005		3.7000e-004	3.7000e-004		3.5000e-004	3.5000e-004	0.0000	1.4412	1.4412	4.1000e-004	0.0000	1.4515
Paving	3.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.6000e-004**	**8.0900e-003**	**0.0108**	**2.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**1.4412**	**1.4412**	**4.1000e-004**	**0.0000**	**1.4515**

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	1.0000e-005	2.1000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0734	0.0734	0.0000	0.0000	0.0735
Worker	1.1000e-004	8.0000e-005	8.4000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2450	0.2450	1.0000e-005	0.0000	0.2452
Total	**1.2000e-004**	**2.9000e-004**	**8.9000e-004**	**0.0000**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3185**	**0.3185**	**1.0000e-005**	**0.0000**	**0.3187**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.3000e-004	8.0900e-003	0.0108	2.0000e-005		3.7000e-004	3.7000e-004		3.5000e-004	3.5000e-004	0.0000	1.4412	1.4412	4.1000e-004	0.0000	1.4515
Paving	3.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.6000e-004**	**8.0900e-003**	**0.0108**	**2.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**1.4412**	**1.4412**	**4.1000e-004**	**0.0000**	**1.4515**

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	1.0000e-005	2.1000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0734	0.0734	0.0000	0.0000	0.0735
Worker	1.1000e-004	8.0000e-005	8.4000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2450	0.2450	1.0000e-005	0.0000	0.2452
Total	**1.2000e-004**	**2.9000e-004**	**8.9000e-004**	**0.0000**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3185**	**0.3185**	**1.0000e-005**	**0.0000**	**0.3187**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

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					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.0000e-005	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	8.0000e-005	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

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	1.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Total	**7.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

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	1.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Total	**7.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation