Appendix H. Greenhouse Gas Analysis

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GREENHOUSE GAS ANALYSIS

FANITA RANCH PROJECT

CITY OF SANTEE

SAN DIEGO COUNTY, CALIFORNIA

LSA

May 2020

GREENHOUSE GAS ANALYSIS

FANITA RANCH PROJECT

CITY OF SANTEE

SAN DIEGO COUNTY, CALIFORNIA

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LSA

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LIST OF ABBREVIATIONS AND ACRONYMS

°F	degrees Fahrenheit
AB	Assembly Bill
Basin	San Diego Air Basin
BAU	Business-As-Usual
CAA	Clean Air Act
CalEEMod	California Emissions Estimator Model
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CH_4	methane
City	City of Santee
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
County	County of San Diego
EO	Executive Order
EPA	United States Environmental Protection Agency
EV	Electric Vehicle
EVSE	Electric Vehicle Supply Equipment
GCC	Global Climate Change
GHG	greenhouse gas
GWP	Global Warming Potential
HFCs	hydrofluorocarbons
IPCC	Intergovernmental Panel on Climate Change
LCFS	Low Carbon Fuel Standards
MMT	million metric tons
MMT CO_2e	million metric tons of carbon dioxide equivalent
MPO	Metropolitan Planning Organization
MT	metric tons
MW	Megawatt
MT CO_2e	metric tons of carbon dioxide equivalent
N_2O	nitrous oxide
NOx	nitrogen oxides
O_3	ozone
PDF	Project Design Feature

PFCs	perfluorocarbons
PHEV	Plug-In Hybrid Electric Vehicle
Plan	Sustainable Santee Plan
RPS	Renewable Portfolio Standards
SB	Senate Bill
SDAPCD	San Diego Air Pollution Air District
SDG&E	San Diego Gas and Electric
SF_6	sulfur hexafluoride
SR	State Route
State	State of California
TDM	Transportation Demand Management
UNFCCC	United Nations Framework Convention on Climate Change
VMT	Vehicle Miles Traveled
ZNE	Zero Net Energy

PROJECT DESCRIPTION

INTRODUCTION

This Greenhouse Gas (GHG) Analysis has been prepared to evaluate the potential climate change impacts associated with the proposed Fanita Ranch Project (project or proposed project) in Santee, San Diego County, California. This report presents the quantitative analysis that was used to evaluate the GHG emissions during project construction and operation under two land use plans: the Preferred Land Use Plan with School and the Land Use Plan without School. This report also evaluates project design features and mitigation measures that would be required to reduce the GHG impacts from the proposed project under both land use plans. The scientific understanding of the extent to which different activities emit GHGs, as well as legislation and rules regarding climate change continue to evolve; as such, the GHG analysis presented in this report is a reflection of the guidance and knowledge currently available.

PROJECT LOCATION AND DESCRIPTION

The project site consists of approximately 2,638 acres located in the northwest quadrant of the City of Santee (City) in eastern San Diego County. The project lies north of State Route (SR) 52 and west of SR-67 and would be accessed from the future northerly extensions of Fanita Parkway and Cuyamaca Street via Mast Boulevard and the future extension of Magnolia Avenue to Cuyamaca Street. Figure 1 shows the project location.

The proposed project would be a new residential community. The Preferred Land Use Plan with School would consist of up to 2,949 housing units in three villages with a K–8 school, up to 80,000 square feet of commercial uses, parks, open space, and agriculture uses. Should the Santee School District not acquire the proposed school site, the school site would be developed with an additional 59 units, for a total of 3,008 residential units. This plan is referred to as the "Land Use Plan without School." Both the Preferred Land Use Plan with School and the Land Use Plan without school are addressed in this report. Development within the proposed project would be clustered to preserve approximately 63 percent of the site as Habitat Preserve. The bulk of the preserve area, approximately 900 acres, would be located in the southern portion of the site and include a network of trails. The existing project site is currently vacant. Figure 2 illustrates the conceptual site plan.

Construction of the proposed project would be divided into four phases and is anticipated to begin in summer 2021 with a buildout of approximately 10 to 15 years.

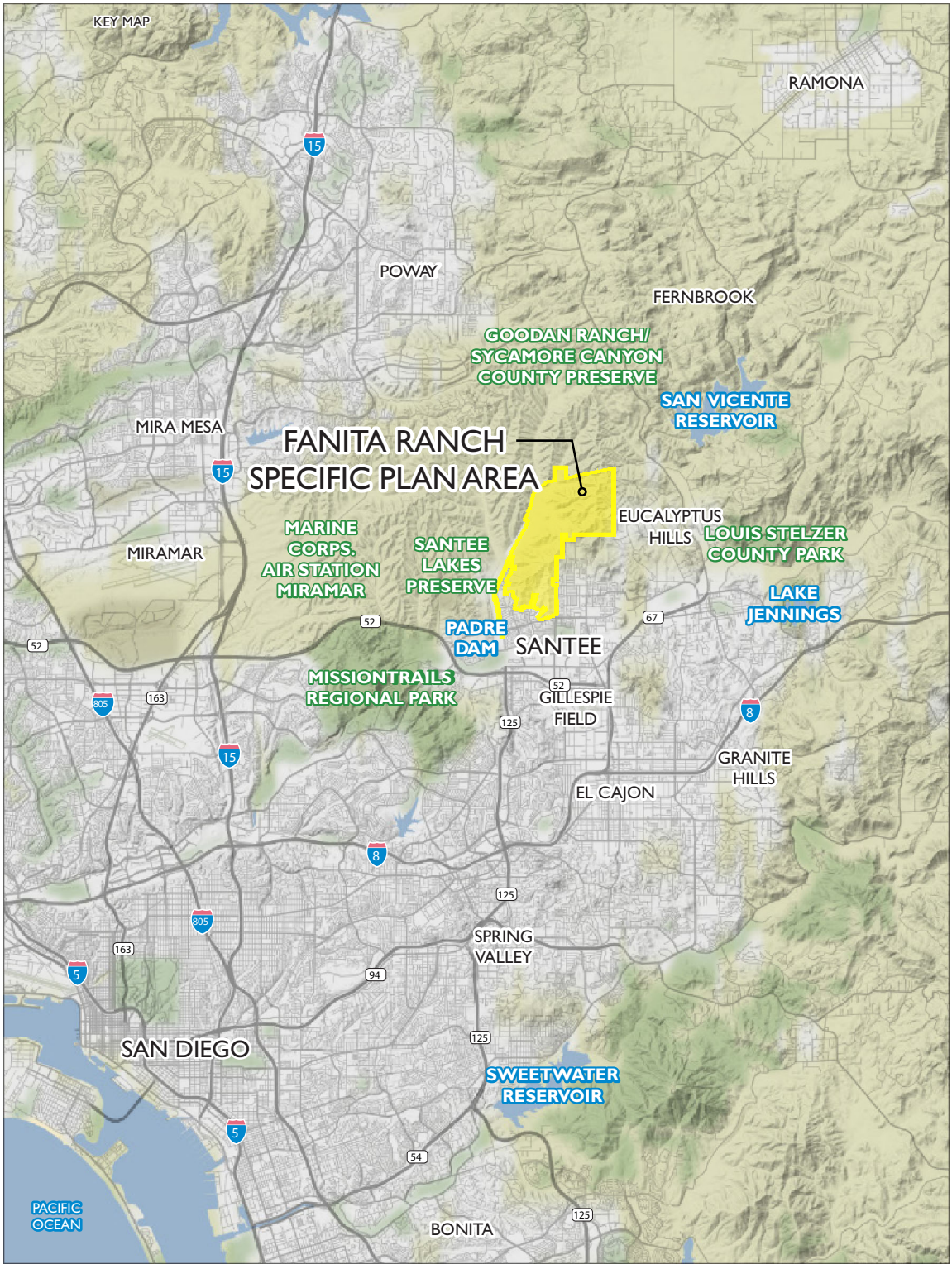

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FIGURE 1

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Fanita Ranch Specific Plan
Greenhouse Gas Analysis Report
Project Location

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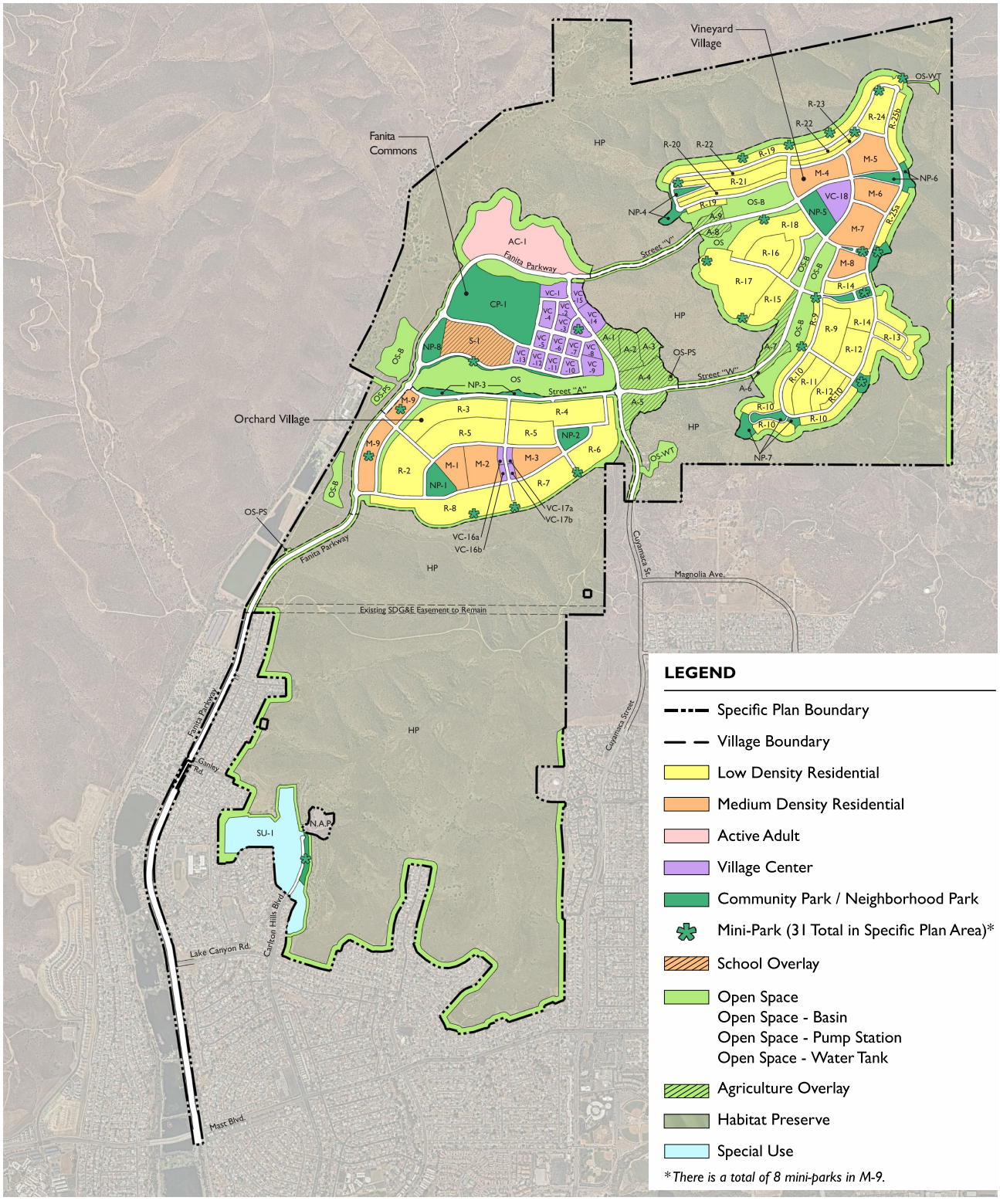

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FIGURE 2

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Fanita Ranch Specific Plan
Greenhouse Gas Analysis Report
Project Site Plan

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PROJECT SETTING

DESCRIPTION OF GLOBAL CLIMATE CHANGE AND ITS SOURCES

Global climate change (GCC) is the observed increase in the average temperature of the Earth's atmosphere and oceans along with other significant changes in climate (e.g., precipitation or wind) that last for an extended period of time. The term "global climate change" is often used interchangeably with the term "global warming," but GCC is preferred to "global warming" because it helps convey that there are other changes in addition to rising temperatures.

Climate change refers to any change in measures of weather (e.g., temperature, precipitation, or wind) lasting for an extended period (decades or longer). Climate change may result from natural factors (e.g., changes in the sun's intensity), natural processes within the climate system (e.g., changes in ocean circulation), or human activities (e.g., the burning of fossil fuels, land clearing, or agriculture). The primary observed effect of GCC has been a rise in the average global tropospheric[1] temperature of 0.36 degrees Fahrenheit (°F) per decade, determined from meteorological measurements worldwide between 1990 and 2005. Climate change modeling shows that further warming may occur, which may induce additional changes in the global climate system during the current century. Changes to the global climate system, ecosystems, and the environment of the State could include higher sea levels, drier or wetter weather, changes in ocean salinity, changes in wind patterns, or more energetic aspects of extreme weather, including droughts, heavy precipitation, heat waves, extreme cold, and increased intensity of tropical cyclones. Specific effects in the State might include a decline in the Sierra Nevada snowpack, erosion of the State's coastline, and seawater intrusion in the San Joaquin Delta.

Average global surface temperatures have risen by 1.33°F with a variance of plus or minus 0.32°F over the last 100 years. The rate of warming over the last 50 years is almost double that over the last 100 years (Intergovernmental Panel on Climate Change [IPCC] 2013). The latest projections, based on state-of-the-art climate models, indicate that temperatures in the State are expected to rise 3–10.5°F by the end of the century (State of California 2013). The prevailing scientific opinion on climate change is that "most of the warming observed over the last 60 years is attributable to human activities" (IPCC 2013). Increased amounts of carbon dioxide (CO_2) and other GHGs are the primary causes of the human-induced component of warming. The observed warming effect associated with the presence of GHGs in the atmosphere (from either natural or human sources) is often referred to as "the greenhouse effect."[2]

[1] The troposphere is the zone of the atmosphere characterized by water vapor, weather, winds, and decreasing temperature with increasing altitude.

[2] The temperature on Earth is regulated by a system commonly known as the "greenhouse effect." Just as the glass in a greenhouse lets heat from sunlight in and reduces the amount of heat that escapes, GHGs like CO_2, CH_4, and N_2O in the atmosphere keep the Earth at a relatively even temperature. Without the greenhouse effect, the Earth would be a frozen globe; thus, the *naturally occurring* greenhouse effect is necessary to keep our planet at a comfortable temperature.

GHGs are present in the atmosphere naturally, are released by natural sources, or are formed from secondary reactions taking place in the atmosphere. The gases that are widely seen as the principal contributors to human-induced GCC are:[1]

- CO_2;
- Methane (CH_4);
- Nitrous oxide (N_2O);
- Hydrofluorocarbons (HFCs);
- Perfluorocarbons (PFCs); and
- Sulfur hexafluoride (SF_6).

Over the last 200 years, human activities have caused substantial quantities of GHGs to be released into the atmosphere. These extra emissions are increasing GHG concentrations in the atmosphere and enhancing the natural greenhouse effect, which scientists believe can cause causing global warming. While GHGs produced by human activities include naturally occurring GHGs (e.g., CO_2, CH_4, and N_2O), some gases (e.g., HFCs, PFCs, and SF_6) are completely new to the atmosphere. Certain other gases (e.g., water vapor) are short-lived in the atmosphere compared to these GHGs, which remain in the atmosphere for significant periods of time and contribute to climate change in the long term. Water vapor is generally excluded from the list of GHGs because it is short-lived in the atmosphere and its atmospheric concentrations are largely determined by natural processes (e.g., oceanic evaporation). For the purposes of this study, the term "GHGs" will refer collectively to the six gases identified in the bulleted list provided above. The following discussion summarizes the characteristics of the six primary GHGs.

Carbon Dioxide

In the atmosphere, carbon generally exists in its oxidized form, as CO_2. Natural sources of CO_2 include the respiration (breathing) of humans, animals, and plants; volcanic outgassing; decomposition of organic matter; and evaporation from the oceans. Human-caused sources of CO_2 include the combustion of fossil fuels and wood, waste incineration, mineral production, and deforestation. The Earth maintains a natural carbon balance, and when concentrations of CO_2 are upset, the system gradually returns to its natural state through natural processes. Natural changes to the carbon cycle work slowly, especially compared to the rapid rate at which humans are adding CO_2 to the atmosphere. Natural removal processes (e.g., photosynthesis by land- and ocean-dwelling plant species) cannot keep pace with this extra input of human-made CO_2, and consequently the gas is building up in the atmosphere. The concentration of CO_2 in the atmosphere has risen approximately 30 percent since the late 1800s.[2]

The transportation sector remained the largest source of GHG emissions in 2016, representing 39 percent of the State's GHG emission inventory.[3] The largest emissions category within the

1 The GHGs listed are consistent with the definition in Assembly Bill 32 (Government Code 38505), as discussed later in this section.

2 California Environmental Protection Agency. *Climate Action Team Report to Governor Schwarzenegger and the Legislature.* Website: http://www.climatechange.ca.gov/climate_action_team/reports/2006report/2006-04-03_FINAL_CAT_REPORT.PDF (accessed September 2019).

3 California Environmental Protection Agency. Air Resources Board. California GHG Emission Inventory. Website: https://www.arb.ca.gov/cc/inventory/pubs/reports/2000_2016/ghg_inventory_trends_00-16.pdf (accessed September 2019).

transportation sector is on-road, which consists of passenger vehicles (cars, motorcycles, and light-duty trucks) and heavy-duty vehicles. Emissions from on-road sources constitute more than 91 percent of the transportation sector total. Industry and electricity generation were the State's second- and third-largest categories of GHG emissions, respectively.

Methane

CH_4 is produced when organic matter decomposes in environments lacking sufficient oxygen. Natural sources of CH_4 include fires, geologic processes, and bacteria that produce CH_4 in a variety of settings (most notably, wetlands) (U.S. Environmental Protection Agency [EPA] 2010). Anthropogenic sources include rice cultivation, livestock, landfills and waste treatment, biomass burning, and fossil fuel combustion (e.g., the burning of coal, oil, and natural gas). As with CO_2, the major removal process of atmospheric CH_4—a chemical breakdown in the atmosphere—cannot keep pace with source emissions, and CH_4 concentrations in the atmosphere are increasing.

Nitrous Oxide

N_2O is produced naturally by a wide variety of biological sources, particularly microbial action in soils and water. Tropical soils and oceans account for the majority of natural source emissions. N_2O is also a product of the reaction that occurs between nitrogen and oxygen during fuel combustion. Both mobile and stationary combustion sources emit N_2O. The quantity of N_2O emitted varies according to the type of fuel, technology, and pollution control device used, as well as maintenance and operating practices. Agricultural soil management and fossil fuel combustion are the primary sources of human-generated N_2O emissions in the State.

Hydrofluorocarbons, Perfluorocarbons, and Sulfur Hexafluoride

HFCs are primarily used as substitutes for O_3-depleting substances regulated under the Montreal Protocol.[1] PFCs and SF_6 are emitted from various industrial processes, including aluminum smelting, semiconductor manufacturing, electric power transmission and distribution, and magnesium casting. There is no aluminum or magnesium production in the State; however, the rapid growth in the semiconductor industry, which is active in the State, has led to greater use of perfluorocarbons (PFCs). However, there are no known project-related emissions of these three GHGs; therefore, these substances are not discussed further in this analysis.

The gases described above vary considerably in terms of global warming potential (GWP), which is a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. GWP is based on several factors, including the relative effectiveness of a gas in absorbing infrared radiation and the length of time that the gas remains in the atmosphere ("atmospheric lifetime"). The GWP of each gas is measured relative to CO_2, the most abundant GHG. The definition of GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to the ratio of heat trapped by one unit mass of CO_2 over a specified time period. GHG emissions are typically measured in terms of metric tons[2] (MT) of "CO_2 equivalents" (CO_2e). For example, N_2O is

[1] The Montreal Protocol is an international treaty that was approved on January 1, 1989, and was designated to protect the O_3 layer by phasing out the production of several groups of halogenated hydrocarbons that are believed to be responsible for O_3 depletion and are also potent GHGs.

[2] A metric ton is equivalent to approximately 1.1 tons.

265 times more potent at contributing to global warming than CO_2. Table A identifies the GWP for each GHG analyzed in this report.

Table A: Global Warming Potential for Selected Greenhouse Gases

Pollutant	Lifetime (Years)	Global Warming Potential (100-year)[1]
Carbon Dioxide (CO_2)	~100[2]	1
Methane (CH_4)	12	28
Nitrous Oxide (N_2O)	121	265

Source: California Air Resources Board (CARB). California's 2017 Climate Change Scoping Plan (2017).

[1] The 100-year global warming potential estimates are from Section 8.7.1.2 of The Global Warming Potential Concept in the IPCC 2013 Fifth Assessment Report (AR5). Website: http://www.ipcc.ch/report/ar5/wg1/ (accessed September 2019).

[2] CO_2 has a variable atmospheric lifetime and cannot be readily approximated as a single number.

IPCC = Intergovernmental Panel on Climate Change

EMISSIONS SOURCES AND INVENTORIES

An emissions inventory that identifies and quantifies the primary human-generated sources and sinks of GHGs is a well-recognized and useful tool for addressing climate change. This section summarizes the latest information on global, national, State, and local GHG emission inventories. However, because GHGs persist for a long time in the atmosphere (Table A), accumulate over time, and are generally well mixed, their impact on the atmosphere and climate cannot be tied to a specific point of emission.

Global Emissions

Worldwide emissions of GHGs in 2012 totaled 29 billion metric tons of carbon dioxide equivalent per year (MT CO_2e/yr).[1] Global estimates are based on country inventories developed as part of the programs of the United Nations Framework Convention on Climate Change (UNFCCC).

United States Emissions

In 2017, the United States emitted approximately 6.5 billion MT CO_2e. Total United States emissions have increased by 1.6 percent from 1990 to 2017, and emissions decreased from 2016 to 2017 by 0.3 percent. The decrease in total GHG emissions between 2016 and 2017 was driven in large part by a decrease in CO_2 emissions from fossil fuel combustion. The decrease in CO_2 emissions from fossil fuel combustion was a result of multiple factors, including: substitution from coal to natural gas and other non-fossil energy sources in the electric power sector; and warmer winter conditions in 2016 resulting in a decreased demand for heating fuel in the residential and commercial sectors (EPA 2019).

[1] UNFCCC. GHG data from UNFCCC. Website: https://unfccc.int/process-and-meetings/transparency-and-reporting/greenhouse-gas-data/ghg-data-unfccc/ghg-data-from-unfccc (accessed September 2019).

State of California Emissions

According to California Air Resources Board (CARB) emission inventory estimates, the State emitted approximately 424 million metric tons of CO_2e (MMT CO_2e) emissions in 2017. This is a decrease of 5 MMT CO_2e from 2016 and a 14 percent decrease since 2004 (CARB 2019).

The CARB estimates that transportation was the source of approximately 40 percent of the State's GHG emissions in 2017, followed by industrial sources at 21 percent and electricity generation (both in-State and out-of-State) at 15 percent. The remaining sources of GHG emissions were residential and commercial activities at 10 percent, agriculture at 8 percent, high-GWP gases at 5 percent, and recycling and waste at 2 percent (CARB 2019).

The CARB is responsible for developing the State GHG Emission Inventory. This inventory estimates the amount of GHGs emitted to and removed from the atmosphere by human activities in the State and supports the Assembly Bill (AB) 32 Climate Change Program. The CARB's current GHG emission inventory covers the years 1990–2017 and is based on fuel use, equipment activity, industrial processes, and other relevant data (e.g., housing, landfill activity, and agricultural lands).

The CARB staff has projected statewide unregulated GHG emissions for 2020, which represent the emissions that would be expected to occur in the absence of any GHG reduction actions, at 509 MMT CO_2e. GHG emissions from the transportation and electricity sectors as a whole are expected to increase but remain at approximately 30 percent and 32 percent of total CO_2e emissions, respectively (CARB 2014).

City of Santee Emissions

The *Sustainable Santee Plan* (Plan) (City of Santee 2020) includes a GHG baseline inventory that identifies sources and levels of GHG emissions produced by residents and businesses within the community and municipal operations. The 2005 and 2013 inventories address the following emission sectors: on-road transportation, residential energy, commercial energy, solid waste, water use, off-road sources, and wastewater treatment. Government-related GHG emissions (municipal emissions), which include energy use in government buildings and facilities, vehicle fleets and equipment, solid waste, streetlights, employee commutes, and water pumping, are a subset of the communitywide emissions inventory.

Projected communitywide GHG emissions are calculated for the years 2020, 2030, and 2035 under a Business-As-Usual (BAU) scenario. The BAU scenario assumes that historical data and trends are representative of future year consumption rates for energy, water, and waste. Table B provides a summary of the City's emissions and forecasts. Assuming BAU, that the same type of current emissions-generating practices continue to occur within the City, GHG emissions are anticipated to increase by 7.6 percent in 2020 over 2013 levels, by 21 percent in 2030 over 2013 levels, and by 28 percent in 2035 over 2013 levels.

Table B: City of Santee Baseline GHG Emissions and Percent Contributions

Emissions Sector	Baseline MT CO_2e (percent of total emissions)				
	2005	**2013**	**2020**	**2030**	**2035**
On-Road Transportation	181,812 (53%)	242,499 (60%)	264,162 (61%)	298,992 (62%)	318,334 (62%)
Commercial Energy Use	37,697 (11%)	48,025 (12%)	49,467 (11%)	56,486 (12%)	60,362 (12%)
Residential Energy Use	63,544 (19%)	78,651 (20%)	83,753 (19%)	91,986 (19%)	96,401 (19%)
Solid Waste	16,376 (4.8%)	11,151 (2.8%)	11,861 (2.7%)	12,651 (2.6%)	13,066 (2.5%)
Water &Wastewater	12,313(3.6%)	7,549 (1.8%)	8,029 (1.9%)	8,565 (1.8%)	8,845 (1.7%)
Off-Road Sources	28,230 (8.3%)	14,699 (3.7%)	15,710 (3.6%)	17,490 (3.6%)	18,454 (3.6%)
Total	**339,972 (100%)**	**402,574 (100%)**	**432,982 (100%)**	**486,170 (100%)**	**515,462 (100%)**
Percent Change from 2013 Levels	**—**	**—**	**7.6**	**20.8**	**28.0**
Estimated Population	54,370	55,033	59,488	62,145	63,518
Estimated Employment	15,782	16,630	16,949	19,354	20,682
GHG Emissions per Service Population [a]	4.85	5.62	5.66	5.97	6.12

Note: [a] Service Population is the sum of population plus employment.
MT CO_2e = metric tons of carbon dioxide equivalent
Source: City of Santee, *Sustainable Santee Plan*, January 2020.

Transportation emissions are the largest portion of GHG emissions. GHG emissions increases from 2005 and 2013 to 2020, 2030, and 2035 are due primarily to anticipated future population growth (and related consumption of energy, fuel, and water) in the City. Although the trends for each projection show an increase in GHG emissions, emission reductions are anticipated due to programs and regulations applied at the federal and State levels, such as vehicle fuel efficiency standards, low carbon fuel standards, and renewable energy portfolio requirements. However, these actions at the federal and State levels are not considered in the 2020, 2030, and 2035 projections reported in Table B.

Table C summarizes municipal emissions and forecasts. Assuming BAU, that the same type of current emissions-generating practices continue to occur within the City, government-related GHG emissions are anticipated to increase by 2 percent in 2020 over 2013 levels, by 5 percent in 2030 over 2013 levels, and by 6 percent in 2035 over 2013 levels. Fleet and equipment, and outdoor lights are the two largest portions of municipal GHG emissions.

Table C: City of Santee Baseline Municipal Emissions

Emissions Sector	Baseline MT CO_2e (percent of total emissions)				
	2005	**2013**	**2020**	**2030**	**2035**
Fleet & Equipment	359 (22%)	396 (21%)	404 (21%)	416 (21%)	421 (21%)
Buildings & Facilities	275 (17%)	346 (18%)	353 (18%)	363 (18%)	368 (18%)
Solid Waste	210 (13%)	247 (13%)	252 (13%)	259 (13%)	263 (13%)
Employee Commute	208 (13%)	188 (10%)	192 (10%)	197 (10%)	200 (10%)
Outdoor Lights	586 (35%)	702 (37%)	716 (21%)	737 (21%)	747 (21%)

Table C: City of Santee Baseline Municipal Emissions

Emissions Sector	Baseline MT CO_2e (percent of total emissions)				
	2005	2013	2020	2030	2035
Water Pumping	19 (1.1%)	30 (1.6%)	31 (1.5%)	31 (1.6%)	32 (1.5%)
Total	**1,657 (100%)**	**1,909 (100%)**	**1,948 (100%)**	**2,003 (100%)**	**2,031 (100%)**
Percent Change from 2013 Levels	**—**	**—**	**2.0**	**4.9**	**6.4**

MT CO_2e = metric tons of carbon dioxide equivalent
Source: City of Santee, *Sustainable Santee Plan*, January 2020.

REGULATORY SETTINGS

Federal Regulations/Standards

The United States historically took a voluntary approach to reducing GHG emissions. However, on April 2, 2007, the United States Supreme Court ruled that the EPA has the authority to regulate CO2 emissions under the Federal Clean Air Act (CAA). In 2007, through *Massachusetts v. Environmental Protection Agency*, 549 U.S. 497 (2007), the United States Supreme Court held that the United States Environmental Protection Agency (EPA) has authority to regulate GHGs from new motor vehicles as pollutants under Section 202(a)(1) of the CAA in the event that it forms a judgment that such emissions contribute to climate change. The EPA can avoid taking regulatory action only if it determines that GHGs do not contribute to climate change, or if it provides some reasonable explanation as to why it cannot or will not exercise its discretion to determine whether they do.

While there currently are no adopted federal regulations for the control or reduction of GHG emissions, the EPA commenced several actions in 2009 that are required to implement a regulatory approach to GCC.

On September 30, 2009, the EPA announced a proposal that focused on large facilities emitting over 25,000 tons of GHG emissions per year. These facilities would be required to obtain permits that would demonstrate they are using the best practices and technologies to minimize GHG emissions.

On December 7, 2009, the EPA Administrator signed a final action under the CAA, finding that six GHGs (CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6) constitute a threat to public health and welfare, and that the combined emissions from motor vehicles cause and contribute to GCC. This EPA action does not impose any requirements on industry or other entities. However, the findings are a prerequisite to finalizing the GHG emission standards for light-duty vehicles (Low Carbon Fuel Standards) mentioned below.

State Regulations/Standards

California Air Resources Board Standards and Programs

The CARB, a part of the California Environmental Protection Agency is responsible for the coordination and administration of both federal and State air pollution control and climate change programs within California. In this capacity, CARB conducts research, sets California ambient air quality standards (CAAQS), compiles emission inventories, develops suggested control measures,

and provides oversight of local programs. CARB establishes emissions standards for motor vehicles sold in California, consumer products, and various types of commercial equipment.

Executive Order S-3-05

On June 1, 2005, California Governor Arnold Schwarzenegger announced through Executive Order (EO) S-3-05, the following GHG emissions targets:

- By 2010, California shall reduce GHG emissions to 2000 levels.
- By 2020, California shall reduce GHG emissions to 1990 levels.
- By 2050, California shall reduce GHG emissions to 80 percent below 1990 levels.
- EO S-3-05 also laid out responsibilities among the State agencies for implementation and for reporting on progress toward the targets.

Executive Order B-30-15

On April 29, 2015, California Governor Jerry Brown announced through EO B-30-15 the following GHG emissions target:

- By 2030, California shall reduce GHG emissions to 40 percent below 1990 levels.

The emissions reduction target of 40 percent below 1990 levels by 2030 is an interim-year goal to make it possible to reach the ultimate goal of reducing emissions 80 percent under 1990 levels by 2050. The order directs ARB to provide a plan with specific regulations to reduce State-wide sources of GHG emissions. EO B-30-15 does not include a specific guideline for local governments.

Assembly Bill 1493, Clean Car Standards

Also known as "Pavley I," AB 1493 standards were the nation's first GHG standards for automobiles. AB 1493 requires CARB to adopt vehicle standards that will lower GHG emissions from new light-duty automobiles to the maximum extent feasible. In January 2012, CARB adopted the Advanced Clean Cars Program to achieve additional GHG emission reductions for passenger vehicles for model years 2017–2025. That Program includes low-emission vehicle (LEV) regulations and zero-emission vehicle (ZEV) regulations. Together, the two standards increase average fuel economy to roughly 43 miles per gallon (mpg) in 2020 (and more for years beyond 2020).

Assembly Bill 32 (AB 32) and Senate Bill 32 (SB 32), California Global Warming Solutions Act

AB 32 requires CARB to reduce statewide GHG emissions to 1990 levels by 2020. As part of this legislation, CARB was required to prepare a "Scoping Plan" that demonstrates how the State will achieve this goal. The Scoping Plan was adopted in 2011, and in it, local governments were described as "essential partners" in meeting the State-wide goal, recommending a GHG reduction level 15 percent below 2005–2008 levels (depending on when a full emissions inventory is available) by 2020.

CARB released the *2017 Scoping Plan Update* on January 20, 2017 (CARB 2017). The *2017 Scoping Plan Update* provides strategies for achieving the 2030 target established by EO B-30-15 and

codified in Senate Bill (SB) 32 (40 percent below 1990 levels by 2030). The *2017 Scoping Plan Update* recommends local plan-level GHG emissions reduction goals. CARB recommends that local governments aim to achieve emissions of no more than 6 MT CO_2e per capita by 2030 and no more than 2 MT CO_2e per capita by 2050.

Assembly Bill 341, Commercial Recycling

AB 341 sets a State-wide goal of 75 percent recycling, composting, or source reduction of solid waste by the year 2020. As required by AB 341, the California Department of Resources Recycling and Recovery (CalRecycle) adopted the Mandatory Commercial Recycling Regulation on January 17, 2012. The regulation was approved by the Office of Administrative Law on May 7, 2012. It became effective immediately and clarified the responsibilities in implementing mandatory commercial recycling. The Mandatory Commercial Recycling Regulation focuses on increased commercial waste diversion as a method to reduce GHG emissions. The regulation is designed to achieve a reduction in GHG emissions of 5 million MT CO_2, which equates to roughly an additional 2–3 MT of currently disposed commercial solid waste being recycled by 2020 and thereafter.

Senate Bill 97

SB 97, enacted in 2007, amends the California Environmental Quality Act (CEQA) statute to clearly establish that GHG emissions and the effects of GHG emissions are appropriate subjects for CEQA analysis. The legislation directed the California Office of Planning and Research to develop draft *CEQA Guidelines* "for the mitigation of GHG emissions or the effects of GHG emissions" and directed the Resources Agency to certify and adopt the *State CEQA Guidelines*. *CEQA Guidelines* Section 15183.5, Tiering and Streamlining the Analysis of GHG Emissions, was added as part of the *CEQA Guidelines* amendments that became effective in 2010 and describes the criteria needed in a GHG reduction plan that would allow for the tiering and streamlining of CEQA analysis for development projects.

Executive Order S-01-07, Low Carbon Fuel Standard

In 2007, then Governor Schwarzenegger signed EO S-01-07, which mandates (1) that a statewide goal be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by 2020, and (2) that a low carbon fuel standard (LCFS) for transportation fuels be established in California. The CARB developed the LCFS regulation pursuant to the State's authority under AB 32 and the Federal Clean Air Act and adopted it in 2009.

California Code of Regulations Title 24, Part 6

California Code of Regulations (CCR) Title 24, Part 6 (California's Energy Efficiency Standards for Residential and Nonresidential Buildings) (Title 24), was established in 1978 to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. Although it was not originally intended to reduce GHG emissions, electricity production by fossil fuels and natural gas use result in GHG emissions, and energy-efficient buildings require less electricity and natural gas. Therefore, increased energy efficiency will result in decreased GHG emissions.

The California Energy Commission (CEC) adopted 2008 Standards on April 23, 2008, in response to AB 32. The 2008 Standards were adopted to (a) provide California with an adequate, reasonably priced, and environmentally sound supply of energy; (b) pursue California energy policy, which states that energy efficiency is the resource of first choice for meeting California's energy needs; (c) meet the West Coast Governors' Global Warming Initiative commitment to include aggressive energy efficiency measures into updates of State building codes every 3 years; and (d) meet the EO B-18-12 in the Green Building Initiative to improve the energy efficiency of nonresidential buildings through aggressive standards. The latest update of CCR Title 24, Part 6, which went into effect on January 1, 2020, will significantly increase the energy efficiency of new residential buildings.

CALGreen Building Code

CCR Title 24, Part 11 (California's Green Building Standard Code [CALGreen]), was adopted in 2010 and went into effect on January 1, 2011. Further updates to CALGreen went into effect on January 1, 2017, and January 1, 2020. CALGreen is the first State-wide mandatory green building code and significantly raises the minimum environmental standards for construction of new buildings in California. The mandatory provisions in CALGreen will reduce the use of volatile organic compounds (VOCs) emitting materials, strengthen water conservation, and require construction waste recycling.

Senate Bill 375, Sustainable Communities Strategy

SB 375 was adopted in 2008 and provided for a new planning process that coordinates land use planning, regional transportation plans, and funding priorities in order to help California meet the GHG reduction goals established in AB 32. SB 375 required regional transportation plans, developed by Metropolitan Planning Organizations (MPOs) to incorporate a Sustainable Communities Strategy (SCS) in their Regional Transportation Plans (RTPs). The goal of the SCS is to reduce regional vehicle miles traveled (VMT) through land use planning and consequent transportation patterns. SB 375 also included provisions for streamlined CEQA review for some infill projects such as transit-oriented development.

Renewable Portfolio Standard

The Renewable Portfolio Standard (RPS) requires energy providers to derive 33 percent of their electricity from qualified renewable sources by 2020. In September 2018, the State Assembly passed and the Governor approved SB 100, which requires energy providers to derive 60 percent of their electricity from qualified renewable sources by 2030 and 100 percent by 2045. The RPS is anticipated to lower emission factors (i.e., fewer GHG emissions per kilowatt-hour used) from utilities across the State, including San Diego Gas & Electric (SDG&E).

Local Policies

City of Santee General Plan

The City of Santee's General Plan 2020 includes various goals, objectives, and policies that help to reduce GHG emissions within the City, including the following policies from the land use element.

- **Policy 3.2:** The City should encourage the development and use of recycled water for appropriate land uses to encourage the conservation of, and reduce demand for, portable water.
- **Policy 4.3:** The City should locate new neighborhood commercial uses along major roadways in consolidated centers that utilize common access and parking for commercial uses, discourage the introduction of strip commercial uses and require adequate pedestrian links to residential areas.

In addition, the mobility element includes policies that enhance smart growth development, improve traffic flow, increase the use of public transit, encourage bicycling and walking, and increase use of alternative modes of travel, which would help to reduce GHG emissions from on-road transportation.

Sustainable Santee Plan: The City's Roadmap to Greenhouse Gas Reductions

The City developed a *Sustainable Santee Plan* that provides GHG emissions reduction goals and strategies focused on reducing resource consumption, improving alternative modes of transportation, and reducing overall emissions throughout Santee. The *Sustainable Santee Plan* was adopted in January 2020. The *Sustainable Santee Plan* (City of Santee 2020) presents the City's community GHG inventories for the years 2005, 2008, 2012, and 2013, and municipal GHG inventories for the years 2005 and 2013. The BAU and Adjusted BAU forecasts are presented for the years 2020, 2030, and 2035. An interim goal consistent with SB 32 was created for 2030, which is to reduce emissions to 40 percent below 2005 levels. A longer-term goal was established for 2035, which is to reduce emissions to 49 percent below 2005 levels. The interim and longer-term goals would put the City on a path toward the State's long-term goal to achieve net carbon neutrality statewide by 2045. The *Sustainable Santee Plan* also identifies GHG reduction strategies to help the City achieve its GHG reduction targets.

On February 7, 2020, Preserve Wild Santee, Climate Action Campaign and Center for Biological Diversity filed a lawsuit challenging the *Sustainable Santee Plan* (*Preserve Wild Santee v. City of Santee*, San Diego Superior Court Case No. 37-2020-7331.) Although the action remains pending as of the date of this analysis, filing a lawsuit does not affect the validity of the *Sustainable Santee Plan*. As such, the City may continue to rely on the plan for purposes of this analysis.

THRESHOLDS OF SIGNIFICANCE

State CEQA Guidelines Section 15064(b) (1) provides that the "determination of whether a project may have a significant effect on the environment calls for careful judgment on the part of the public agency involved, based to the extent possible on scientific and factual data," and further states that an "ironclad definition of significant effect is not always possible because the significance of an activity may vary with the setting."

Appendix G of *CEQA Guidelines* includes significance thresholds for GHG emissions. A project would normally have a significant GHG emissions effect on the environment if it would:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or
- Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

In regard to determining the significance of a GHG impact, the *State CEQA Guidelines* state that Lead Agency may analyze and mitigate the significance of GHG emissions at the project level using a plan for the reduction of GHG emissions (*State CEQA Guidelines* Section 15183.5(a)). The City's *Sustainable Santee Plan* was adopted in January 2020 and includes a checklist to determine development projects' consistency with the land use assumptions and GHG reductions used in the *Sustainable Santee Plan*. The Sustainable Santee Plan is a qualified plan for reduction of GHGs under *State CEQA Guidelines* Section 15183.5(b). Because the proposed project is within the City, determining if the project is consistent with the *Sustainable Santee Plan* is the threshold used to answer the questions in both bullet points.

However, given the fact that the *Sustainable Santee Plan* currently is in litigation, the City decided to independently develop a quantitative per capita GHG Threshold based upon the data accumulated during preparation of the *Sustainable Santee Plan* and ensure that the project would not generate GHG emissions, either directly or indirectly, that would cause a significant impact on the environment. Such a threshold would allow the City to answer the question presented in the first bullet point.

To develop the necessary GHG threshold, the City used the GHG reduction targets for community emissions shown on page 23 of the Sustainable Santee Plan (Santee 2020). These reduction targets are 3.80 MT of GHG emissions per service population (MT/SP) by year 2030 and 3.18 MT/SP by 2035. Service population is the total population plus jobs in the City. The City of Santee chose to focus on year 2035 in the development of a per capita threshold because building new development at that level of efficiency will ensure that the City meets its 2035 reduction target.

The first step in the development of a per capita threshold is to ensure that the anticipated level of GHG emissions will result in less than significant climate change impacts. This analysis therefore compared the GHG reduction goals of California with the GHG reduction targets of the Sustainable Santee Plan. As shown in Figure 3, while the magnitude of emissions differ (Million Metric Tonnes (MMT) at the State level versus Metric Tonnes (MT) at the local level) the overall reduction trends of

the Sustainable Santee Plan match the State goals. This is because both have the same percentage of reductions over time. For this reason, basing a per capita GHG threshold on the data collected for the Sustainable Santee Plan will ensure that emissions at or below the threshold level will result in less than significant impacts.

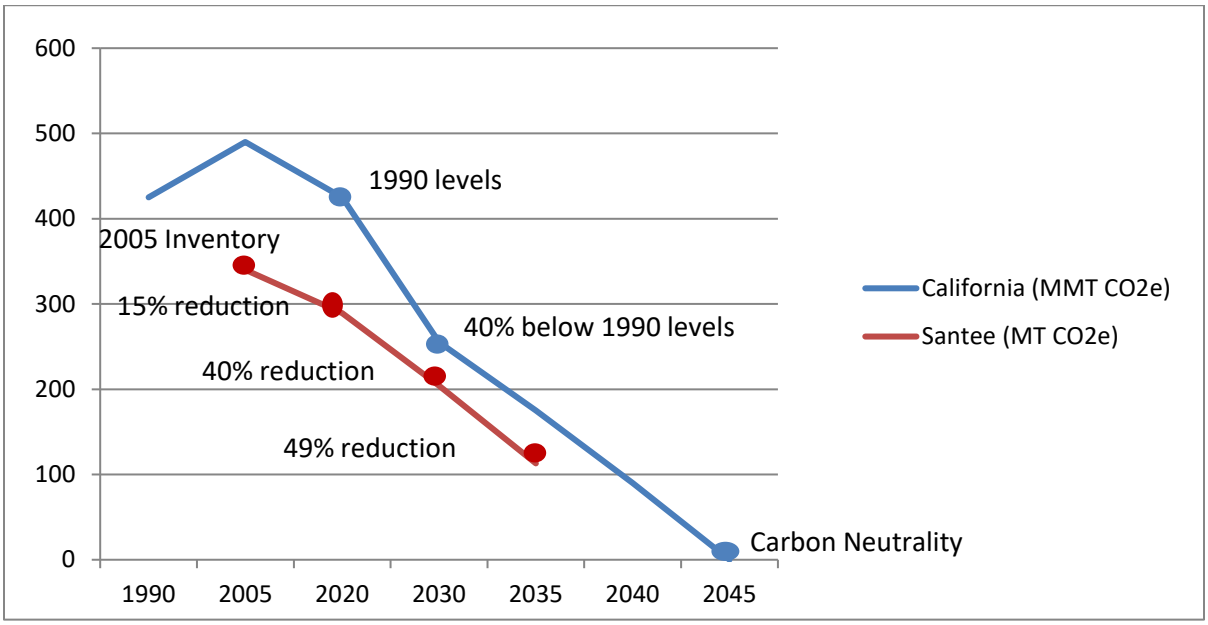

Figure 3: Comparison of the California GHG reduction goals with the GHG reduction Targets of the *Sustainable Santee Plan* in percent reductions and overall reduction trends.

The next step in developing a per capita threshold is to customize it to fit new development projects within the City. Note that the GHG reduction targets shown on page 23 of the Sustainable Santee Plan are average levels of GHG emissions for the entire community, which include both existing and new development. To segregate out the per capita level of GHG emissions efficiency needed from new development, the City reviewed the reduction measures allocated to new development, the reduction measures allocated to the existing buildings, and the reduction measures that apply to both new and existing buildings and infrastructure. For reduction measures that applied to both new and existing buildings and infrastructure, the City proportioned the allocation of emissions based on the growth anticipated in 2035 (i.e., growth of 10.2 percent between 2020 and 2035 would allocate 10.2 percent of the reductions toward new development). Table D summarizes the reduction measures within the Sustainable Santee Plan and the allocation between the existing built environment and new development needed to achieve the 2035 reduction target.

Table D: Sustainable Santee Plan 2035 Reduction Measures Allocation to New Development

Measure	Reductions from Existing Buildings (MT CO_2e)	Reductions from New Development (MT CO_2e)	Total Reductions (MT CO_2e)	Percent Reduction from New Development
1.1: Energy Audits in Existing Residential				
Minor Permit Applications	45	0	45	0%
Major Permit Applications	7,811	0	7,811	0%
2.1: Exceed Energy Standard for New Residential Units	0	17,750	17,750	100%
3.1 Energy Audits in Existing Commercial Sector				
Minor Permit Applications	660	0	660	0%
Major Permit Applications	8,010	0	8,010	0%
4.1: Exceed Energy Standard for New Commercial Units	0	12,337	12,337	100%
5.1: Tree Planting for Shading and Energy Efficiency	0	22	22	100%
5.2: Light Reflecting Surfaces on Existing Buildings	1	0	1	0%
6.1: non-motorized Transportation	0	263	263	100%
6.2: Implement Bicycle Master Plan	0	259	259	100%
7.1: Electric Vehicle Chargers Program	0	47,414	47,414	100%
8.1: Traffic Flow Improvement Program	0	2,130	2,130	100%
9.1: Reduce Waste to Landfills	2,883	5,354	8,238	65%*
10.1: Distributed Renewable Energy Generation	0	2,783	2,783	100%
10.2: Community Choice Aggregation Program	45,546	11,386	56,532	20%
Total Reductions	**64,956**	**94,120**	**164,655**	**57%**

Source: Santee 2020.
Notes: *In addition to normal recycling activities, new development is also required to divert all demolition and construction waste

As shown in Table D, new development is responsible for 57 percent of the GHG reductions within the Sustainable Santee Plan, but represents only 20 percent of the total service population.

The third step in the development of the per capita GHG threshold is to review the remaining communitywide GHG emissions after implementation of all the reduction measures and proportion the remaining emissions between existing and new development. Table 12 in the Sustainable Santee Plan summarizes the communitywide emissions forecasts, reductions, and remaining emissions and compares the remaining emissions with the GHG reduction targets (Santee 2020). As can be seen in Table 12 of the Sustainable Santee Plan the remaining emissions after employment of all the reduction measures is 171,888 MT CO_2e (Santee 2020).

Table E summarizes the proportioning of the remaining emissions in 2035 between existing and new development and then divides the remaining emissions associated with new development by the service population associated with new development (i.e., growth).

Table E: Remaining 2035 Community Emissions Proportioned between Existing and New Development and Resulting Per Capita GHG Threshold for New Development

Category	Existing	New Development	2035 Total
Remaining 2035 GHG Emissions	148,788 MT CO_2e	23,100 MT CO_2e	171,888 MT CO_2e
Service Population in 2035	71,152 SP	13,048 SP	84,200 SP
Per Capita GHG Threshold for New Development		**1.77 MT CO_2e/SP**	

As shown in Table E, the per capita GHG Threshold for new development is 1.77 MT CO_2e/SP.

IMPACTS AND MITIGATION

This section evaluates potential significant impacts to global climate change that could result from implementation of the project. Because it is not possible to tie specific GHG emissions to actual changes in climate, this evaluation focuses on the project's emission of GHGs. Mitigation measures are identified as appropriate.

Emissions estimates for the Preferred Land Use Plan with School and the Land Use Plan without School are discussed below. Bearing in mind that CEQA does not require "perfection" but instead "adequacy, completeness, and a good faith effort at full disclosure," the analysis below is based on methodologies and information available to the City and the applicant at the time this analysis was prepared. Estimation of GHG emissions in the future does not account for all changes in technology that may reduce such emissions; therefore, the estimates are based on past performance and represent a scenario that is worse than that which is likely to be encountered (after energy-efficient technologies have been implemented). Therefore, the information presented below provides a worst-case scenario to assist the public and decision-makers in understanding the project's potential contribution to global climate change impacts.

Construction and operation of the proposed project would generate GHG emissions, with the majority of energy consumption (and associated generation of GHG emissions) occurring during the project's operation. Overall, the following activities associated with the proposed project could directly or indirectly contribute to the generation of GHG emissions:

- **Construction Activities:** During project construction, GHGs would be emitted through the operation of construction equipment and from worker and vendor vehicles, each of which typically uses fossil-based fuels to operate. The combustion of fossil-based fuels creates GHGs (e.g., CO_2, CH_4, and N_2O). Furthermore, CH_4 is emitted during the fueling of heavy equipment.
- **Natural Gas, Electricity, and Water Use:** Natural gas use results in the emission of two GHGs: CH_4 (the major component of natural gas) and CO_2 (from the combustion of natural gas). Electricity use can result in GHG emissions if the electricity is generated by combusting fossil fuel. California's water conveyance system is energy-intensive.
- **Solid Waste Disposal:** Solid waste generated by the project could contribute to GHG emissions in a variety of ways. Landfilling and other methods of disposal use energy for transporting and managing the waste, and they produce additional GHGs to varying degrees. Landfilling, the most common waste management practice, results in the release of CH_4 from the anaerobic decomposition of organic materials. CH_4 is 25 times more potent a GHG than CO_2. However, landfill CH_4 can also be a source of energy. In addition, many materials in landfills do not decompose fully, and the carbon that remains is sequestered in the landfill and not released into the atmosphere.
- **Motor Vehicle Use:** Transportation associated with the proposed project would result in GHG emissions from the combustion of fossil fuels in daily automobile and truck trips.

SHORT-TERM PROJECT CONSTRUCTION GREENHOUSE GAS EMISSIONS

Consistent with CARB and San Diego Air Pollution Control District guidance, the most recent version of California Emissions Estimator Model (CalEEMod; Version 2016.3.2.25) was used to calculate construction emissions associated with the project.[1] CalEEMod is designed to model construction emissions for land development projects and allows for the input of project-specific information, such as the number of pieces of equipment, hours of operations, duration of construction activities, and selection of emission control measures. The Air Quality Analysis (LSA 2020) includes detailed discussion of the proposed project construction schedule and the summary of construction equipment that would be used during project construction of each phase as estimated by the project applicant. Construction activities would be identical for the Preferred Land Use Plan with School and the Land Use Plan without a School because the activities would occur within the same footprint, require the same equipment, and have the same duration. Due to the model limitation on input data scale, construction activities were divided into two parts and modeled separately:

A. All construction activities of Phase 1 and Phase 2 plus Phase 3 Site Preparation and Grading; and

B. All construction activities of Phase 3 and Phase 4 plus Phase 1 Building Construction and Phase 2 Surface Improvements and Building Construction.

For construction years 2021 through 2026, annual emissions were calculated from Part A. For construction years 2027 through 2033, annual emissions were calculated from Part B. Table B summarizes the annual emissions for all construction years, which are from the CalEEMod output tables (see Appendix A) and represent the combination of the on- and off-site emissions.

Per the South Coast Air Quality Management District guidance,[2] due to the long-term nature of GHG emissions in the atmosphere, instead of determining significance of construction emissions alone, the total construction emissions are amortized over 30 years (an estimate of the life of the project) and included in the operations analysis. As shown in Table F, construction of the project would result in GHG emissions of 37,442 MT CO_2e, or approximately 1,248 MT CO_2e per year over the 30-year life of the project.

1 The November 2017 CalEEMod version, 2016.3.2.25, fixed a Windows security update issue in Version 2016.3.2 and included five upgrades and 10 bug fixes. The most notable upgrade and bug fix, respectively, are the incorporation of percentage reductions in default energy consumption to reflect compliance with the 2016 Title 24, Part 6 Building Energy Efficiency Standards and fixing the bug that overestimated annual construction PM_{10} and $PM_{2.5}$ emissions from fugitive dust in multiple year scenario runs (SCAQMD 2017).

2 South Coast Air Quality Management District GHG Meeting 14 Main Presentation, November 19, 2009. Website: http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ ghg-meeting-14/ghg-meeting-14-main-presentation.pdf.

Table F: Construction Greenhouse Gas Emissions

Year	Total Greenhouse Gas Emissions (MT/yr)			
	CO_2	CH_4	N_2O	CO_2e
2021-2022	530.68	0.15	0	534.50
2022-2023	1,565.80	0.44	0	1,576.92
2023-2024	1,520.81	0.27	0	1,527.60
2024-2025	4,188.48	0.75	0	4,207.33
2025-2026	6,349.42	1.47	0	6,386.15
2026-2027	4,361.79	0.73	0	4,380.12
2027-2028	3,564.38	0.69	0	3,581.73
2028-2029	3,064.87	0.64	0	3,080.77
2029-2030	3,711.56	0.76	0	3,730.51
2030-2031	3,072.10	0.12	0	3,075.18
2031-2032	2,634.12	0.11	0	2,636.98
2032-2033	1,822.45	0.08	0	1,824.45
2033-2035	898.93	0.04	0	899.91
Total Construction Emissions	**37,285.39**	**6.27**	**0**	**37,442.16**
Amortized Construction Emissions[1]	**1,242.85**	**0.21**	**0**	**1,248.07**

Source: Compiled by LSA (September 2019).

[1] Total construction emissions amortized over 30 years. These emissions are not additive to the total construction emissions listed on the line above.

CH_4 = methane
CO_2 = carbon dioxide
CO_2e = carbon dioxide equivalent
MT/yr = metric tons per year
N_2O = nitrous oxide

LONG-TERM PROJECT OPERATIONAL GREENHOUSE GAS EMISSIONS

Long-term operation of the proposed project would generate GHG emissions from area and mobile sources and indirect emissions from stationary sources associated with energy consumption. Mobile-source emissions of GHGs would include project-generated vehicle trips. Area-source emissions would be associated with activities such as landscaping and maintenance of the proposed project, natural gas for heating, and other sources. Increases in stationary-source emissions would also occur at off-site utility providers as a result of demand for electricity, natural gas, and water by the proposed project. The following sections summarize the methodology and assumptions used in calculating GHG emissions resulting from long-term operational activities of the project.

Area Sources

CalEEMod was used to estimate operational emissions from area sources, including emissions from hearths and landscape maintenance equipment. Emissions associated with natural gas usage in space heating, water heating, and stoves are calculated in the building energy use module of CalEEMod, as described in the following text.

The project has been designed to prohibit wood stoves and fireplaces and to allow a total of six natural gas fire pits / fireplaces within the community areas of the villages (Project Design Feature (PDF)-AQ/GHG-1).[1]

Landscape maintenance includes fuel combustion emissions from equipment such as lawnmowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers. The emissions associated with use of landscape equipment are estimated based on CalEEMod default values for emission factors (grams per residential dwelling unit per day and grams per square foot of non-residential building space per day) and number of summer days (when landscape maintenance would generally be performed) and winter days.

Energy

As represented in CalEEMod, energy sources include emissions associated with building electricity and natural gas usage (non-hearth). Electricity use would contribute indirectly to GHGs, since GHG emissions occur at the location of the power plant, which is typically off site. Emissions were calculated by multiplying the energy use by the utility's carbon intensity (pounds of GHGs per megawatt-hour for electricity or 1,000 British thermal units for natural gas) for CO_2 and other GHGs. Annual natural gas (non-hearth) and electricity emissions were estimated in CalEEMod using the emissions factors for San Diego Gas and Electric (SDG&E), which would be the energy source provider for the project. For the operational year 2030, the emission factors for SDG&E were adjusted to reflect SDG&E's compliance with the RPS standards. A renewable procurement percentage of 60 percent in 2035 was assumed based on the 2030 RPS goal of 60 percent required by SB 100 (2018).

For residential land uses, project–specific energy (electricity and natural gas) use data were used in place of CalEEMod default values. To calculate the total residential building energy input (i.e., electricity and natural gas use from regulated and unregulated loads), project–specific energy use was adjusted to reflected energy use in residential development designed to meet Title 24 standards.

For non-residential land uses, CalEEMod default values for energy consumption for each land use were applied for the proposed project analysis. The energy use for non-residential buildings is calculated in CalEEMod using energy intensity values (natural gas usage per square foot per year) assumptions, which were based on the California Commercial End-Use Survey database.

The current Title 24 building energy efficiency standards are the 2019 Title 24 building energy efficiency standards, which became effective January 1, 2020. In general, non-residential buildings built to the 2019 standards will use an estimated 7 percent less energy than those built to the 2016 standards (CEC 2015). CalEEMod default values assume compliance with the 2016 Title 24 standards, which became effective on January 1, 2017.

Table G presents the energy use (electricity and natural gas) rates assumed in CalEEMod.

[1] The PDFs are addressed in more detail below in Table M, Project Design Features That Reduce GHG Emissions.

Table G: Energy Use Rates Modeling Assumptions

Land Use	Title 24 Electricity	Non-Title 24 Electricity	Lighting Electricity	Total Electricity	Title 24 Natural Gas	Non-Title 24 Natural Gas	Total Natural Gas
	kWh per unit per year				kBTU per unite per year		
Residential Units	971	2,371	993	5,406	22,000	4,500	26,500
Commercial	2.86	3.16	5.46	11.48	0.98	1.09	2.07
Industrial	4.17	4.97	3.34	12.48	13.74	4.20	17.94
Parking Lots	0	0	0.75	0.75	0	0	0

kWh = kilowatt hour; kBtu = kilo British thermal unit.
Units for Commercial Industrial and parking lot are on square feet.
Title 24 electricity is the "regulated loads" kWh for air conditioning and ventilation systems
Non-Title 24 electricity is the sum of appliance and cooking kWh and plug in load kWh.
Lighting electricity is the sum of Interior Lighting kWh and Exterior Lighting kWh.
Title 24 natural gas is the "regulated loads" Therms shown in 2019 Title 24.
Non-Title 24 natural gas is the "Appliance & Cooking Therms" shown in2019 Title 24.
Improvements on the 2016 code for non-residential uses were only applied to those regulated loads.

On-Road Mobile Sources

Mobile sources for the project would primarily be motor vehicles (automobiles and light-duty trucks) traveling to and from the proposed land uses and would primarily include future residents. The anticipated project trip generation, including the trip rates, total trips and total vehicle miles traveled (VMT), are based on the project's Transportation Impact Analysis prepared by Linscott, Law and Greenspan, Engineers, Inc. (LLG 2020). CalEEMod was used to calculate the emissions resulting from on-road mobile sources associated with residents as well as workers, customers, and delivery vehicles traveling to and from the proposed land use types. In order to accurately depict the project's VMT values shown in the project's Transportation Impact Analysis the CalEEMod default values for trip rates, trip lengths, and trip types were modified. A detailed discussion of the modifications can be found in Appendix C.

The calculation of project vehicle emissions is based on multiple variables, including trip rate, trip length, trip purpose, and trip type, which are all factors in estimating project-generated VMT. According to the *Transportation Impact Analysis* (LLG 2020), implementation of the Preferred Land Use Plan with School would result in 243,266 daily VMT and the Land Use Plan without School would result in 249,124 daily VMT.[1] Those figures were multiplied by 347 to convert to annual VMT.[2] The results (84,413,302 annual VMT and 86,446,028 annual VMT, respectively) were then incorporated into CalEEMod, together with default emission factors representing the vehicle mix and emissions anticipated in 2035, to estimate emissions associated with full buildout of the project. Additional calculation details are provided in Appendix C.

1 See, Transportation Impact Analysis, Table 18-3 on pg. 200 (LLG 2020).

2 The daily to annual VMT conversion factor of 347 is recommended by CARB and CARB used it in developing California's Greenhouse Gas Emission Inventory. Website: https://ww3.arb.ca.gov/cc/inventory/pubs/reports/2000_2014/ghg_inventory_00-14_technical_support_document.pdf (accessed September 2019).

Solid Waste

The project would generate solid waste and, therefore, result in CO_2e emissions associated with landfill off-gassing. CalEEMod default values for solid waste generation were used to estimate GHG emissions associated with solid waste.

Water and Wastewater

Supply, conveyance, treatment, and distribution of water for the project require the use of electricity, which would result in associated indirect GHG emissions. Similarly, wastewater generated by the proposed project requires the use of electricity for conveyance and treatment, along with GHG emissions generated during wastewater treatment. Water consumption estimates for both indoor and outdoor water use and associated electricity consumption from water use and wastewater generation were assumed based upon the project's Water Supply Assessment (Michael Baker International (2020).

Agriculture

The project also includes agricultural activities as one of the land uses. According to the *Fanita Ranch Specific Plan* (City of Santee 2019), approximately 38.2 acres of the project site would be used for agricultural activities that include community-based agriculture, orchards, and vineyards. The GHG emissions associated with agricultural water use were estimated outside of CalEEMod and have been included in this analysis in the Water sector. The assumptions for calculations associated with agriculture are summarized in Appendix B.

Project Service Population

The service population is the total of residents plus jobs anticipated at buildout of the project. Residential populations for both land use plans were derived using the 2.9 persons per household from the Census Bureau (U.S. Census Bureau 2019) and the 1.6 persons per Active Adult unit, which is based on similar active adult development projects. The Preferred Land Use Plan with School will include 2,504 low density residential (LDR), medium density residential (MDR) and (Village Center) (VC) residential units with an average of 2.9 persons each; and 445 active adult (AA) residential units with an average of 1.6 persons each totaling 7,974 residents plus 450 jobs at buildout, which will result in a service population of 8,424 . The Land Use Plan without School will build a total of 2,563 LDR, MDR and VC units, and 445 AA units at buildout and result in 8,145 residents and 200 jobs for a service population of 8,345.

Regulatory Compliance Measures and Project Design Features that Reduce GHG Emissions

Project compliance with the State regulations and standards will reduce project-generated GHG emissions. Table H summarizes the assumptions used in quantifying project compliance of these reductions. Each regulation includes a Reference Number, which was used in the modeling process to identify the assumptions used in modeling the reductions associated with compliance with each regulation and/or standard.

Table H: Regulation Compliance Quantification

Reference Number	Regulatory Compliance Measure	Description	Quantification Details
		Energy	
REG-GHG-1	Compliance with Title 24 Building Energy Efficiency Standards	Title 24 of the California Code of Regulations serves to enhance and regulate California's building standards. The most recent amendments to Title 24, Part 6, referred to as the 2019 standards, became effective on January 1, 2020. CalEEMod Version 2016.3.25 assumes compliance with 2016 Title 24 Standards. In general, single family homes built to the 2019 standards are anticipated to use about 7% less energy for lighting, heating, cooling ventilation, and water heating than those built to the 2016 standards, and non-residential buildings built to the 2019 standards will use an estimated 7% less energy than those built to the 2016 standards (CEC 2016)	CalEEMod default energy values were adjusted to match current Title 24, Part 6 energy efficiency requirements as shown in Table G
REG-GHG-2	Solar-Ready Units	Per CEC's 2016 Residential Compliance Manual (CEC 2015), all single-family homes constructed as part of the Proposed Project would be designed with pre-plumbing for solar water heaters and solar rooftop renewable energy systems.	The project will comply but no reduction was assumed for this regulation.
REG-GHG-3	Renewables Portfolio Standards (RPS)	Implementation of the 60% mandate by 2030 would reduce GHG emissions by 17%.	The emissions intensity factors for utility energy use were adjusted in CalEEMod to account for SDG&E's compliance with the RPS for operational year 2035.
		Mobile Sources	
REG-GHG-4	Low Carbon fuel Standard	The Low Carbon Fuel Standard achieves a 10% reduction in emissions from transportation fuels.	Accounted for in EMFAC 2016 vehicle emission factors as part of CalEEMod Version 2016 3.2.25
REG-GHG-5	State and Federal Mobile Source Reduction Strategies	• Advanced Clean Cars (for model years 2016 and beyond) The Advanced Clean Car Standards would result in approximately 3% more reductions from passenger vehicles than the Pavley standards by 2030, 12% by 2025, 19.5% by 2030, and 33% by 2050. • Truck and Bus Rule (2014 Amendment) • Heavy-Duty Greenhouse Gas Phase 1 (2013), which includes the 2013 Tractor-Trailer Greenhouse Gas Regulation Amendments and Federal Fuel Efficiency Standards for Medium- and Heavy-Duty Engines and Vehicles • Pavley I federal standard for model years 2012 through 2016	Accounted for in EMFAC 2016 vehicle emission factors as part of CalEEMod Version 2016.3.2.25.
REG-GHG-6	Pre-Wiring for Electric Vehicle	Per CALGreen, the garages of each LDR must be wired to have the circuit and capacity for electric vehicle (EV) chargers. However, CALGreen does not	The project will comply, but no reduction was assumed for this regulation.

Table H: Regulation Compliance Quantification

Reference Number	Regulatory Compliance Measure	Description	Quantification Details
	Charging Equipment	require the installation of EV chargers (CALGreen 2016b and 2016c).	
REG-GHG--7	Curbside Recycling	Project-wide curbside recycling for residential units, schools, commercial, and retail establishments would be required in accordance with the California Integrated Waste Management Act (AB 939) and AB 341.	The solid waste generation rate developed for the proposed project includes diversion requirements. No additional reductions were assumed.
Water Conservation			
REG-GHG-9	Low-Flow Fixtures	Indoor residential plumbing products would comply with the 2016 CALGreen Code, including future updates to CALGreen as these updates apply to homes in the Proposed Project built under the updated code.	The analysis used default CalEEMod 2016 V3.25 values for water use.
REG-GHG-10	Reduction in Outdoor Water Use	The project would comply with the City's Landscape Ordinance, which calls for 25% reduction in total water use below 2013 levels. To achieve this reduction, the project would employ drought-tolerant landscaping and may offer plumbing for grey water systems, if feasible. In addition, through the proposed project's plan process, and, in the case of individual homeowners, the proposed project's Covenants, Conditions, and Restrictions, it would be required to comply with the City's Landscape Ordinance and Water Efficient Landscape Design Manual for all outdoor landscapes, including common areas, public spaces, parkways, medians, parking lots, parks, and all builder- and homeowner-installed private front yard and backyard landscaping.	Reductions associated with the City's *Landscape Ordinance and Water Efficient Landscape Design Manual* were accounted for in the Fanita Ranch Water Services Study (Michael Baker International 2020).

In addition, there are many PDFs that will reduce GHG emissions. Table I summarizes each PDF and how the GHG reductions were calculated.

Table I: Project Design Features That Reduce GHG Emissions

PDF Number	Strategy to Reduce GHG Emissions	Description	Qualification Details
Energy Efficiency Measures			
PDF-AQ/GHG-1	Wood Burning Stoves and Fireplaces	No wood burning stoves or fireplaces shall be allowed in the project, and no more than six natural gas fire pits/fireplaces may be installed within the community area of the villages.	The project has been designed to prohibit wood burning stoves and fireplaces and to allow a total of six natural gas fire pits within the community areas of the villages.

Table I: Project Design Features That Reduce GHG Emissions

PDF Number	Strategy to Reduce GHG Emissions	Description	Qualification Details
PDF-AQ/ GHG-2	Non-Residential Energy Improvement Standards	All non-residential land uses shall achieve a 14% greater building energy efficiency than required by the 2016 State energy efficiency standards in Title 24, Part 6 of the California Code of Regulations.	CalEEMod default energy rates reflect 2016 standards. Accordingly, Title 24 energy use was adjusted to reflect the estimated 30% increase in efficiency for non-residential buildings (CEC 2015a), and then adjusted to reflect an additional 14% increase on the calculated 2016 energy demand factors.
PDF-AQ/ GHG-3	Energy Star Appliances	All appliances (washer/dryers, refrigerators, and dishwashers) that will be installed by builders in residences and commercial businesses shall be Energy star rated or equivalent.	The following percent improvement in energy efficiency was assumed in CalEEMod based on default values: • Clothes washers: 30% • Dishwashers: 15% • Fan: 50% • Refrigerator: 15%
PDF-AQ/ GHG-5	Efficient Outdoor Lighting	All outdoor lighting shall be (light emitting diodes) LED or other high efficiency lightbulbs.	Conservatively, no credit was taken.
PDF-AQ/ GHG-6	Cool Roofs	All residential structures shall meet the U.S. Green Building Council standards for cool roofs. This is defined as achieving a three-year solar reflectance index (SRI) of 64 for a low-sloped roof and an SRI of 32 for a high-sloped roof. Prior to the issuance of non-residential building permits, the proposed project applicant or its designee shall submit building plans illustrating non-residential structures shall meet the U.S. Green Building Council standards for cool roofs.	The energy efficiency factors for compliance with 2019 Title 24, Part 6 already accounts for reductions associated with cool roofs. Therefore, no additional reductions were taken for this project design feature.
Water			
PDF-UT-1	Hot Water Pipe Insulation – Residential and No- Residential	All hot water pipes shall be insulated and hot and cold water piping shall be separated.	Estimated annual water savings of 2,400 gallons per unit. Reduction included in water-use estimates. No additional reduction assumed.
PDF-UT-2	Pressure Reducing Valves- Residential and Non-Residential	The maximum service pressure shall be set to 60 pounds per square inch to reduce potential leakage and prevent excessive flow of water from all appliances with fixtures.	Estimated annual water savings of 1,800 gallons per unit. Reduction included in water-use estimates. No additional reduction assumed.
PDF-UT-3	Water Efficient Dishwashers	Water efficient dishwashers that carry the Energy Star label shall be installed in all residential units and commercial uses where appropriate.	Estimated annual water savings of 650 gallons per unit. Reduction included in water use estimates. No additional reduction assumed.
PDF-UT-4	Residential Landscaping	All proposed project landscaping shall comply with the City's Landscape Ordinance, and California Code Regulations Title 23, Division 2, Chapter 2.7 (section 490 et Seq.) By complying with this ordinance, it is estimated that	Estimated that outdoor water use at single-family residences will be reduced by approximately 10%. Reduction included in water use

Table I: Project Design Features That Reduce GHG Emissions

PDF Number	Strategy to Reduce GHG Emissions	Description	Qualification Details
		outdoor water use at single family residences will be reduced by approximately 10 percent. With an estimated total water use of 500 gpd per home and approximately 50 percent of this water used outdoors, the estimated annual water savings is 9,125 gallons per home. Residential water use can vary widely based on the size of lots; however, based on local Padre Dam Municipal Water District factors for the proposed project, estimated water use for a typical single family home is 435 gpd for densities of 3.0 to 10 units per acre, 700 gpd for densities of 1.0 to 3.0 units per acre, and 1,000 gpd for densities of less than 1.0 unit per acre. With an estimated 50 percent of this water savings is 7,940 gallons per single family residence where densities are from 1.0 to 3.0 units per acre, and 18,250 gallons per single family residence where densities are less than 1.0 units per acre based on these assumptions.	estimates. No additional reduction assumed.
PDF-UT-5	Outdoor Watering	Home Owner's Associations shall appropriately regulate the use of water for cleaning outdoor surfaces and vehicles through the Covenants, Conditions, and Restrictions.	Conservatively, no credit was taken for implementation for reduced outdoor watering.

Preferred Land Use Plan with School

As noted above implementation of the Preferred Land Use Plan with School would result in 243,266 daily VMT and 84,413,302 annual VMT (LLG 2020). Changes were made to CalEEMod defaults noted in Table L and Table M, above. GHG emissions were calculated using the same methodology as described in the *Air Quality Analysis* (LSA 2020).

Table J shows the long-term operational emissions associated with the Preferred Land Use Plan with School and demonstrates the proposed project would result in GHG emissions of 36,105 MT CO_2e per year, which would cause a potentially significant impact.

Table J: Operational Greenhouse Gas Emissions – Preferred Land Use Plan With School

Category	Metric Tons per Year						Percent of Total
	Bio-CO_2	NBio-CO_2	Total CO_2	CH_4	N_2O	CO_2e	
Area	—	983.36	983.36	0.05	0.02	989.84	2.7
Energy	—	7,173.53	7,173.53	0.08	0.06	7,193.42	19.9
Mobile	—	22,612.41	22,612.41	1.43	—	22,648.20	62.7
Waste	850.39	—	850.39	50.26	—	2,106.80	5.8
Water	165.08	1,210.67	1,375.75	16.96	0.40	1,919.04	5.3
Construction (Amortized over 30 years)	—	1,242.85	1,242.85	0.21	—	1,248.07	3.5
Total	**1,015.47**	**33,222.46**	**34,238.34**	**68.99**	**0.48**	**36,105.37**	**100.0**
Project's Service Population						**8,424**	
MT CO_2e/SP						**4.29**	
Per Capita GHG Significance Threshold						**1.77**	
Will the Project Generate Significant Levels of GHG Emissions?						**YES**	

Source: Compiled by LSA (May 2020). CalEEMod output files in Appendix A.

Note: Numbers in table may not appear to add up correctly due to rounding of all numbers.

CH_4 = methane
Bio-CO_2 = biological carbon dioxide
CO_2 = carbon dioxide
CO_2e = carbon dioxide equivalent
N_2O = nitrous oxide
NBio-CO_2 = non-biological carbon dioxide

Land Use Plan without School

As noted above implementation of the Land Use Plan without School would result in 249,124 daily VMT and 86,446,028 annual VMT (LLG 2020). Changes were made to CalEEMod defaults as noted in Table L and Table M, above, and GHG emissions were calculated using the same methodology as described in the *Air Quality Analysis* (LSA 2020).

Table K shows the long-term operational emissions associated with the proposed project under Land Use Plan without School. As shown in Table L, the project would result in GHG emissions of 36,690.42 MT CO_2e per year, which would cause a potentially significant impact.

Table K: Operational Greenhouse Gas Emissions – Land Use Plan Without School

Category	Metric Tons per Year						Percent of Total
	Bio-CO_2	NBio-CO_2	Total CO_2	CH_4	N_2O	CO_2e	
Area	—	1,030.52	1,030.52	0.05	0.02	1,037.30	2.8
Energy	—	7,224.38	7,224.38	0.08	0.06	7,244.54	19.8
Mobile	—	23,156.39	23,156.39	1.46	—	23,192.99	63.3
Waste	827.32	—	827.32	48.89	—	2,049.66	5.6
Water	165.53	1,207.55	1,373.08	17.01	0.40	1,917.86	5.5
Construction (Amortized over 30 years)	—	1,242.85	1,242.85	0.21	—	1,248.07	3.4
Total	**992.85**	**33,861.69**	**34,854.54**	**67.70**	**0.48**	**36,690.42**	**100.0**
Project's Service Population						**8,345**	
MT CO_2e/SP						**4.40**	
Per Capita GHG Significance Threshold						**1.77**	
Will the Project Generate Significant Levels of GHG Emissions?						**YES**	

Source: Compiled by LSA (May 2020). CalEEMod output files in Appendix A.

Note: Numbers in table may not appear to add up correctly due to rounding of all numbers.

CH_4 = methane
Bio-CO_2 = biological carbon dioxide
CO_2 = carbon dioxide
CO_2e = carbon dioxide equivalent
N_2O = nitrous oxide
NBio-CO_2 = non-biological carbon dioxide

As shown in Tables J and K, project generated GHG emissions are above the per capita GHG threshold. Mitigation is therefore required to reduce project generated GHG emissions.

MITIGATION MEASURE ANALYSIS

Mitigation measures designed to reduce per capita emissions to a less-than-significant level were evaluated for the project as described in this section.

On-Road Mobile Sources

Electric Vehicles

To reduce mobile emissions, the proposed project shall be required to include a total of 1,203 "fast-charging" 240- volt Level 2 Electric Vehicle Supply Equipment (EVSE) in each garage provided for a Low Density Residential (LDR) unit, a total of 354 EVSE within the parking areas of the remaining residential units (Medium Density Residential (MDR), Village Center (VC) and Active Adult Residential (AA), and 15 EVSE within the project's commercial parking lots.

In a 2011 report investigating people's major decision-making factors in purchasing an electric vehicle (EV), the highest percentage of respondents (63 percent) cited the ability to charge at home Accenture 2011). Home charging is also the most commonly used method of charging, accounting for more than 70 percent of all charging (Holland 2016). Charging at home is often the most convenient, since cars are parked overnight, allowing them sufficient time to charge when they are not in use and when energy is priced at "super off-peak" and is the least expensive (SDG&E 2017).

Studies have found that the availability of charging at home increased a person's propensity to purchase both EVs and plug-in hybrid electric vehicles (PHEVs) (Hidrue et al. 2011; Tal et al. 2013). Additionally, the CEC identified home charging as a high-priority strategy to increase EV sales and increase the number of miles driven by EVs (NREL 2014). The importance of charging EVs at home has been shown to be leveraged and made more appealing with the installation of a Level 2 EVSE. Of early EV owners surveyed in 2013, 56 percent of those respondents received a free or subsidized Level 2 charger, and of that total, almost 60 percent cited the importance of that charger as either "a lot" or "a deciding factor" (CSE 2013) in their decision to purchase the EV. Of owners of PHEVs, 80 percent of them found the importance of the subsidy to install a Level 2 charger influential in their purchase (Krupa et al. 2014).

The proposed project's efforts to increase EV adoption are also supported by the charging infrastructure in the surrounding community. There are 140 public charging stations within the greater San Diego area and this existing infrastructure is focused in areas where cars are parked for longer periods of time allowing for greater charging, such as shopping malls and downtowns. (Plugshare 2017). This infrastructure pattern allows for PHEVs to charge more frequently and achieve similar EV mode miles as full-EVs (INL 2016). Planned infrastructure in the San Diego region, notably at park and rides and the San Diego International Airport is congruent with strategies outlined by the National Energy Renewable Laboratory (NREL 2014; Trabish 2017).

Of EV owners surveyed, 94 percent live in households with two or more people, and most have access to a conventional gasoline or diesel car. For those households with both a conventional gas car and EV, the EV is used for over 85 percent of the household VMT, and the conventional car is used primarily used for vacation and long distance travel (CSE 2012, 2013). The development pattern of the proposed project would serve households similar to those existing owners and is well within EV range of existing employment and retail centers in the City and adjacent communities.

Therefore, the installation of these chargers onsite, in conjunction with market forces decreasing the cost and increasing the availability of EVs; regional charging initiatives decreasing range anxiety and increasing the share of miles driven by PHEVs in EV mode; and State targets fueling large programs and incentive pools making EV ownership more cost effective and appealing, will increase the market penetration of EVs and share of EV miles driven as a result of the proposed project. As a result, a 13 percent reduction in VMT-related emissions would occur with the proposed project's facilitation of EV ownership.

To further increase EV ownership within the proposed project, the applicant shall provide one EV with the purchase of a LDR unit, until a total of 100 EVs have been delivered prior to issuance of a certificate of occupancy for the 500th LDR unit.

Transportation Demand Management

The *Transportation Impact Analysis* (LLG 2020) describes an integrated approach in mitigating on-road mobile sources through Transportation Demand Management (TDM), which includes an integrated neighborhood electric vehicle (NEV) network, bicycle path network, and sidewalks and pedestrian path network that connects all of the land uses within the proposed project.

Specifically, the project shall include:

- The proposed project will include improved design elements to enhance walkability and connectivity. Improved street network characteristics within a neighborhood include street accessibility, usually measured in terms of average block size, proportion of four-way intersections, or number of intersections per square mile. Design is also measured in terms of sidewalk coverage, building setbacks, street widths, pedestrian crossings, presence of street trees, and a host of other physical variables that differentiate pedestrian-oriented environments from auto-oriented environments.

- Project design will include pedestrian/bicycle safety and traffic calming measures in excess of jurisdiction requirements. Roadways will be designed to reduce motor vehicle speeds and encourage pedestrian and bicycle trips with traffic calming features. Traffic calming features may include: marked crosswalks, countdown signal timers, curb extensions, speed tables, raised crosswalks, raised intersections, median islands, tight corner radii, roundabouts or mini-circles, on-street parking, planter strips with street trees, chicanes/chokers, and others.

- The project will provide multi-purpose trails that will connect to the City's Bicycle Master Plan and recreational trail system outside of the project boundaries.

- The proposed project will include a comprehensive neighborhood electric vehicle (NEV) network connecting all land uses within the planning area of the project.

- The proposed project will include a ride-sharing program as well as a permanent transportation management association membership and funding requirement. Funding may be provided by Community Facilities, District, or County Service Area, or other non-revocable funding mechanism. The proposed project will promote ride-sharing programs through a multi-faceted approach that may include, but not be limited to:

    - Designating a certain percentage of parking spaces for ride sharing vehicles;

    - Designating adequate passenger loading and unloading and waiting areas for ride-sharing vehicles; and

    - Providing a website or message board for coordinating rides.

- The proposed project will implement marketing strategies to reduce commute trips. Information sharing and marketing are important components to successful trip reduction strategies. Implementing commute trip reduction strategies without a complementary marketing strategy will result in lower VMT reductions. Marketing strategies may include, but not be limited to:

    - New employee orientation of trip reduction and alternative mode options;

    - Event promotions; and

- Publications.

The future homeowners association will ensure that employers within the project are implementing ride-share/ car-share programs, administer the school ride share program (for the Preferred Land Use Pplan with School) and oversee the marketing and educational programs focused on commute trip reductions.

Details of how these programs are integrated and VMT reductions are calculated resulting from the TDM measures can be found in the *Transportation Impact Analysis* (LLG 2020).

Landscaping Sequestration and Net Gains/Losses in Carbon Emissions

The developed project includes a robust landscaping plan, which would involve the planting of trees, shrubs, hedges and sod within the parks, school, orchards, landscaped medians, and open spaces of the proposed project. To determine the net sequestration potential of a project, the analysis must include an overview of emissions sources as well as reductions associated with sequestration to determine the net reduction benefit.

Carbon sequestration is the process by which CO_2 is removed from the atmosphere and deposited into a carbon reservoir (e.g., vegetation). Trees and vegetation take in CO_2 from the atmosphere during photosynthesis, break down the CO_2, store the carbon within plant parts, and release the oxygen back into the atmosphere (CARB 2015). A development that changes land use type results in the potential release of sequestered carbon to the atmosphere as CO_2, which would not have been released had there been no land-type change.

The loss of sequestration from natural vegetation that will be permanently removed with development of the project was taken into account. The calculation methodology and default values provided in CalEEMod (CAPCOA 2016) were used to calculate potential CO_2 emissions associated with the one-time change in carbon sequestration capacity of a vegetation land use type. The calculation of the one-time loss of sequestered carbon is the product of the converted acreage value and the carbon content value for each impacted vegetation community. The mass of sequestered carbon per unit area (expressed in units of MT of CO_2 per acre) is dependent on the specific land use type. Assuming that the sequestered carbon is released as CO_2 after removal of the vegetation, annual CO_2 is calculated by multiplying total biomass (MT of dry matter per acre) from IPCC data by the carbon fraction in plant material, and then converting MT of carbon to MT of CO_2 based on the molecular weights of carbon and CO_2.

It is conservatively assumed that all sequestered carbon from the removed vegetation will be returned to the atmosphere; that is, the wood from the trees and vegetation communities would not be reused in a solid form or another form that would retain carbon.

CalEEMod calculates GHG emissions resulting from land conversion and uses six general IPCC land use classifications[1] for assigning default carbon content values (in units of MT CO_2/acre). CalEEMod default carbon content values were assumed to estimate the loss of sequestered carbon (release of CO_2) from the removal of the scrub (14.3 MT CO_2/acre), trees (111 MT CO_2/acre), and grassland

[1] Forest land (scrub), forest land (trees), cropland, grassland, wetlands, and other.

(4.31 MT CO_2/acre) vegetation categories, which are based on data and formulas provided in the IPCC reports. The project would permanently disturb a total of 885 acres with varying carbon content values.

Table L presents the loss of sequestered carbon associated with the project's permanent land use changes.

Table L: Vegetation Removal—Estimated Loss of Sequestered Carbon

Vegetation Type	CalEEMod Vegetation Category	CO_2 Emission Factor	Net Loss (acres)	Loss of Sequestered Carbon (MT CO_2)
Scrub and Chaparral	Scrub	14.3	691.26	9,885.02
Woodland	Trees	111	2.42	268.62
Grassland	Grassland	4.31	186.5	802.30
Wetlands	Wetlands	0.00	6.17	0.00
		Total	885	10,955.94

Source: LSA 2020

CalEEMod calculates GHG sequestration that results from the planting of new trees and has default carbon content values (in units of MT CO_2/tree/year) for 10 different general tree species and a miscellaneous tree category. As the types of tree species that will be planted are currently unknown, the CO_2 sequestration rate of 0.0354 MT CO_2/tree/year for the miscellaneous tree species category was assumed to ensure a conservative analysis (CAPCOA 2016). Trees sequester carbon as they grow and increase mass. Because of this, young trees increase the amount of carbon sequestered year by year until they are mature, at which point sequestration is stable (CAPCOA 2016). These calculations provide an average annual sequestration value for trees over a 20-year period as the tree matures.

Similar to trees, shrubs and hedges provide sequestration potential. If hedges and shrubs within the proposed project are fertilized through mulching rather than nitrate fertilizers, then a potential emission source is eliminated. Sequestration of shrubs was determined to be 0.572 MT CO_2e/acre/year assuming moderate shrub coverage per year based on IPPC rates for a variety of scrub vegetation. This rate was 80 percent of the sequestration rate of natural scrub habitat to account for landscape maintenance and less coverage than heathy natural scrub habitats (USGS 2012).

The proposed project includes turf within the parks, school, and various other locations within the proposed project. Healthy lawns can promote carbon accumulation, minimize erosion and runoff, but one recent study examined the fugitive emissions of nitrous oxide (N_2O, a potent GHG) in an urban turf grass system (Gu et al. 2015). Overall, turf was found to be a net carbon source emitting approximately 132.27 lbs. per acre per year (0.06 MT/acre/year). As such, no GHG reduction credit was taken for the turf areas, and in fact, the GHG emissions of that vegetation category were accounted for in the project's sequestered carbon analysis.

Table M shows the sequestered carbon resulting from vegetation planting, sequestered carbon loss from permanent vegetation removal, and the resulting net sequestered carbon.

Table M: Estimated Gains and Losses of Sequestered Carbon

Vegetation Category	CalEEMod Vegetation Category	Growth Period (years)	Number of Trees /Acres of Vegetation Planted/Lost[1]	CO_2 Sequestration Factor (MT CO_2 year)	Gains and Losses of Sequestered CO_2 (MT CO_2)
Sequestered Carbon Gains from Vegetation Planting					
Trees	Miscellaneous Trees	20	26,705 Trees	0.0354	18,907.14
Bushes/Hedges	Scrub	20	237.4 Acres	0.572/acre	2,715.86
Turf	Grass	20	44.2 Acres	-0.060/acre	-53.04
				Net total Sequestration	21,569.96
Sequestered Carbon Losses from Permanent Vegetation Removal During Construction (From Table L)					
Various	Various	NA	885	Various	-10,955.95[1]
				Net Estimated Reduction in CO_2 from Sequestered Carbon over 20 years (MT CO_2)	10,614.01[2]
				Net Annual Reduction in CO_2 from Sequestered Carbon (MT CO_2)	530.70

Source: Compiled by LSA (April 2020).

Notes:
NA = Not applicable
[1] Sequestration loss due to permanent displacement of natural vegetation modeled in CalEEMod
[2] Net sequestration was calculated outside of CalEEMod because CalEEMod does not have factors for bushes/hedges or turf.

Energy

To reduce the project's total residential building energy input (i.e., electricity and natural gas use from regulated and unregulated loads), no natural gas will be provided to the residential portion of the project. All electric homes reduce GHG emissions because they eliminate natural gas in favor of more efficient electric heat pump technology for air conditioning and heating. In addition, the State goal of 100 percent renewable energy by 2045 embedded in SB 100 will result in continued GHG reductions as electricity on the grid continues to reduce GHG emissions needed to generate the electricity. Tables N and O summarize the reductions associated with requiring all residential units to be all-electric homes with the Preferred Land Use Plan with School and the Land Use Plan without School.

[1] The acreage of bushes/hedges and turf are taken from verbal discussion with HomeFed, May 2020.

Table N: GHG Reductions Associated with All Electric Homes (Preferred Land Use Plan with School)

Land Use Scenario	Natural Gas (kBTU/yr)	Electricity (kWh/yr)	Energy Related GHG Emissions (MT CO_2e)
Proposed Project	60,898,810	26,369,360	3,300.94
Proposed Project with All-Electric Homes	18,030,908	28,806,132	871.58
Differential	-42,867,902	+2,436,772	-2,429.36
Total Annual GHG Reduction Associated with All Electric Homes			**2,429.36**

Compiled by LSA (May 2020) using CalEEMod (See Appendix A).

Table O: GHG Reductions Associated with All Electric Homes (Land Use Plan without School)

Land Use Scenario	Natural Gas (kBTU/yr)	Electricity (kWh/yr)	Energy Related GHG Emissions (MT CO_2e)
Proposed Project	62,329,322	27,458,944	3,345.89
Proposed Project with All-Electric Homes	15,773,112	28,911,714	846.72
Differential	-46,556210	+1,452,770	-2,499.17
Total Annual GHG Reduction Associated with All Electric Homes			**2,499.17**

Compiled by LSA (May 2020) using CalEEMod (See Appendix A).

All-electric homes were modeled together with EV charging in the mitigated condition by increasing the kilowatt hours of consumption per residential unit and zeroing out the natural gas usage in CalEEMod. The non-residential land uses within CalEEMod maintained natural gas usage and were modeled consistent with the values shown in Table H, above.

Further, the project buildings are designed to achieve enhanced energy efficiency in the building envelope and to use renewable energy sources, such as rooftop-mounted solar panels. Here, the project will include fixed position photovoltaic (PV) panels mounted on the rooftops of the residential units and commercial buildings and motorized tilt racks in the Special Use area. Maximizing the emission free PV renewable energy generation potential onsite will reduce emissions by providing the all-electric homes with emissions-free electricity more quickly than waiting for the grid electricity to become emissions free.

Tables P and Q summarize the energy generation by land use type and provide the associated GHG emission reductions.

Table P: Photovoltaic Energy Production by Land Use (Preferred Land Use Plan with School)

Units	Unit type	Land Use	System Size (kW)	Annual Production (kWh)	kW/ Unit	Annual kWh/Unit	MT CO_2e/Unit Reduced	Total MT CO_2e Reduced
1,203	Dwelling Unit	Low Density Residential	3,816	5,557,496	3.70	4,619.70	1.52	1,823
866	Dwelling Unit	Medium Density Residential	1,913	2,785,739	2.21	3,216.79	1.05	914
445	Dwelling Unit	Active Adults Homes	1,068	1,555,400	2.40	3,495.28	1.15	510
435	Dwelling Unit	Village Center	870	1,267,039	2.00	2,912.73	0.96	416
1	Parks/ School	Parks/ School	240	349,528	240.00	349,528.00	114.63	115
1	All other Commercial	All other Commercial	240	349,528	240.00	349,528.00	114.63	115
18.4	Acres	Special Use Solar Farm	4,000	8,607,309	217.39	467,788.53	153.42	2,823
Combined Total Generation			**12,147**	**20,472,039**				**6,714**

Source: HomeFed (May 2020)

Table Q: Photovoltaic Energy Production by Land Use (Land Use Plan without School)

Units	Unit type	Land Use	System Size (kW)	Annual Production (kWh)	kW/ Unit	Annual kWh/Unit	MT CO_2e/Unit Reduced	Total MT CO_2e Reduced
1,203	Dwelling Unit	Low Density Residential	3,816	5,557,496	3.17	4,619.70	1.52	1,823
925	Dwelling Unit	Medium Density Residential	2,043	2,975,530	2.21	3,216.79	1.05	976
445	Dwelling Unit	Active Adults Homes	1,068	1,555,400	2.40	3,495.28	1.15	510
435	Dwelling Unit	Village Center	870	1,267,039	2.00	2,912.73	0.96	416
1	Parks/ School	Parks/ School	--	--	--	--	--	--
1	All other Commercial	All other Commercial	240	349,528	240.00	349,528.00	114.63	115
18.4	Acres	Special Use: Solar Farm	4,000	8,607,309	217.39	467,788.53	153.42	2,823
Combined Total Generation			**12,083**	**20,378,877**				**6,661**

Source: HomeFed (May 2020)

The total generation of onsite PV solar was modeled separately in CalEEMod because of the different technologies used onsite (fixed panels and single axis tracking systems) to ensure that the results would not be skewed or over-estimated.

Solid Waste Diversion

While emissions from the transport and decomposition of solid waste are only approximately 5 percent of total emissions for the proposed project, diversion requirements help reduce emissions and provide consistency with City, County, and State diversion rate goals. Also, because the proposed project includes a community farm that will mulch landscape maintenance waste and other organic wastes, there are additional opportunities for the proposed project to increase the diversion rate.

During construction, debris will be reduced by 70 percent between the start of construction and 2030. The diversion of construction debris will be increased to 80 percent starting in 2030. Long-term waste will be reduced by 90 percent. Solid waste diversion was modeled in CalEEMod along with the other mitigation measures associated with the TDM measures, EV charging systems, all-electric homes, and energy efficiency improvements.

GHG MITIGATION MEASURES

The following mitigation measures are required to reduce the GHG emissions associated with either the Preferred Land Use Plan with School or the Land Use Plan without School. **MM AIR-5, -6, -7, -8,**

and **-10,** which are taken from the Air Quality Analysis (LSA May 2020) will also reduce GHG emissions and are included below for that reason:

MM AIR-5 During construction activities when on-site electricity is available, the City of Santee shall require the project construction contractor to rely on the electricity infrastructure surrounding the construction site rather than electrical generators powered by internal combustion engines. Contract specifications shall be included in project construction documents, including the grading plan, which shall be reviewed and approved by the City of Santee prior to issuance of a grading permit.

MM AIR-6 Prior to the recordation of the first final map in each phase, the applicant or its designee shall provide evidence to the City of Santee that the project shall implement the following Transportation Demand Management measures as identified in the *Transportation Impact Analysis* (LLG 2020):

- Improve design of development to enhance walkability and connectivity;
- Provide pedestrian network improvements;
- Provide traffic calming measures;
- Provide bike lanes in the street design;
- Provide bike parking for multifamily residential uses;
- Implement car-sharing programs;
- Provide ride-sharing programs;
- Implement commute trip reduction marketing;
- Implement a school carpool program under the Preferred Land Use Plan with School; and
- Implement a Neighborhood Electric Vehicle (NEV) Network.

MM AIR-7 Prior to the issuance of building permits, the applicant or its designee shall provide evidence to the City of Santee that the project shall include a total of 1,203 240-volt Level 2 Electric Vehicle Supply Equipment (EVSE) in each garage provided for a Low Density Residential (LDR) unit, a total of 354 EVSE within the parking areas of the remaining residential units (Medium Density Residential (MDR), Village Center (VC) and Active Adult Residential (AA)), and 15 EVSE within the project's commercial parking lots.

MM AIR-8 Prior to the issuance of building permits, the applicant or its designee shall provide evidence to the City of Santee that the project applicant will utilize high-efficiency equipment and fixtures that exceed 2016 California Green Building Standards Code and 2019 Title 24, Part 6 energy conservation standards by 14 percent. When the standards are updated, the project applicant shall utilize high-efficiency equipment and fixtures meeting or exceeding the latest standards.

MM AIR-10 Prior to the issuance of building permits, the applicant or its designee shall provide evidence to the City that the design plans for residential structures include electrical

outlets in the front and rear of the structure to facilitate use of electrical lawn and garden equipment.

MM GHG-1 Prior to the issuance of building permits, the applicant or its designee shall provide evidence to the City of Santee that the project will include both fixed-position rooftop photovoltaic (PV) solar energy panels on residential structures and commercial buildings, and in the Special Use area PV panels mounted on racks that have motorized tilt positions that follow the sun unless the installation is infeasible due to poor solar resources established in a solar feasibility study prepared by a qualified solar consultant submitted to City. The proposed project shall provide on-site PV solar renewable energy generation with a total design capacity of at least 12.147 megawatts (MW) for the Preferred Land Use Plan with School, or 12.083 MW capacity for the Land Use Plan without School at buildout.

MM GHG-2 Prior to the issuance of building permits, the applicant or its designee shall provide evidence to the City of Santee that:

- Between 2020 and 2030, at least 70 percent of construction and demolition waste is diverted; and
- Starting in 2030, at least 80 percent of construction and demolition waste is diverted.

Long term, at least 90 percent of the waste generated at the project shall be diverted. To achieve this mandate, the project shall include, but are not limited to:

- Recycling containers within all multifamily residential communities and non-residential buildings; and
- Composting containers and compost collection services within commercial and office facilities.

MM GHG-3 Prior to the issuance of building permits, the applicant or its designee shall provide evidence to the City of Santee that the project will implement water conservation strategies that are designed to be as efficient as possible with potable water supplies, and achieve at least 20 percent indoor and outdoor water reduction compared to the average water consumption rate in the City of Santee at the time of project approval.

MM GHG-4 Prior to the issuance of building permits, the applicant or its designee shall provide evidence to the City of Santee that the project will include all-electric homes. No natural gas shall be provided to the residential portion of the project

MM GHG-5 Prior to the issuance of the precise grading permit for each phase, landscape and irrigation plans shall show evidence of tree planting in support of the overall master tree planting plan that requires at least 26,705 trees and at least 237.4 acres of bushes/hedges onsite.

MM GHG-6 Prior to the issuance of the certificate of occupancy for the 500th low density residential unit, the applicant or its designee shall provide evidence to the City of

Santee that one electric vehicle (EV) has been provided with the purchase of a low density residential (LDR) unit, until a total of 100 EVs have been delivered.

Tables R and S show the mitigated operational emissions under the Preferred Land Use Plan with School and the Land Use Plan without School, respectively. After applying the mitigation measures discussed above, there would be a reduction in GHG emissions of 37 percent from unmitigated emissions (only project design features and State regulations included) for the Preferred Land Use Plan with School and a 36 percent reduction from unmitigated emissions for the Land Use Plan without School. For the Preferred Land Use Plan with School, the mitigated operational GHG emissions would be approximately 12,606.51 MT CO_2e per year. For the Land Use Plan without School, the mitigated operational GHG emissions would be approximately 13,433.32 MT CO_2e per year.

Table R: GHG Emissions with On-site Mitigation, Preferred Land Use Plan with School

Category	Metric Tons per Year						Percent of Total
	Bio-CO_2	NBio-CO_2	Total CO_2	CH_4	N_2O	CO_2e	
Area (MM AIR-10, GHG-4)	—	25.05	25.05	0.02	—	25.50	0.1
Energy (MM AIR-8, GHG-4)	—	1,253.21	1,253.21	0.07	0.03	1,263.56	6.2
Mobile (MM AIR-6, AIR-7)	—	16,809.36	16,809.36	1.06	—	16,835.96	83.1
Waste (MM GHG-2)	85.04	—	85.04	5.03	—	210.68	1.0
Water (MM GHG-3)	132.06	99.48	231.55	13.58	0.32	667.44	3.3
Construction (Amortized over 30 years) (MM AIR-5)	—	1,242.85	1,242.85	0.21	—	1,248.07	6.2
Total	**217.10**	**19,429.95**	**19,562.01**	**19.97**	**0.35**	**20,251.21**	**100.0**
100 Electric Vehicles(MM GHG-6)						**-400.00**	
PV Solar Generation(MM GHG-1)						**-6,714.00**	
Net Sequestration (MM GHG-5)						**-530.70**	
Net Remaining Emissions						**12,606.51**	
Project's Service Population						**8,424**	
MT CO_2e/SP						**1.50**	
Per Capita GHG Significance Threshold						**1.77**	
Will the Project Generate Significant Levels of GHG Emissions?						**No**	

Source: Compiled by LSA (May 2020) CalEEMod output files in Appendix A.

Note: Numbers in table may not appear to add up correctly due to rounding of all numbers.

CH_4 = methane
Bio-CO_2 = biological carbon dioxide
CO_2 = carbon dioxide
CO_2e = carbon dioxide equivalent
N_2O = nitrous oxide
NBio-CO_2 = non-biological carbon dioxide

Table S: GHG Emissions with On-site Mitigation, Land Use Plan without School

Category	Metric Tons per Year						Percent of Total
	Bio-CO_2	NBio-CO_2	Total CO_2	CH_4	N_2O	CO_2e	
Area (MM AIR-10, GHG-4)	—	25.54	25.54	0.02	—	26.00	0.1
Energy (MM AIR-8, GHG-4)	—	1,229.89	1,229.89	0.07	0.03	1,240.11	5.9
Mobile (MM AIR-6, AIR-7	—	17,609.31	17,609.31	1.11	—	17,637.15	83.9
Waste (MM GHG-2)	82.73	—	82.73	4.89	—	204.97	1.0
Water (MM GHG-3)	132.43	99.21	231.64	13.61	0.32	668.72	3.2
Construction (Amortized over 30 years) (MM AIR-5)	—	1,242.85	1,242.85	0.21	—	1,248.07	5.9
Total	**215.16**	**20,206.80**	**20,421.96**	**19.91**	**0.35**	**21,025.02**	**100.0**
100 Electric Vehicles (MM GHG-6)						**-400.00**	
PV Solar Generation (MM GHG-1)						**-6,661.00**	
Net Sequestration (MM GHG-5)						**-530.70**	
Net Remaining Emissions						**13,433.32**	
Project's Service Population						**8,345**	
MT CO_2e/SP						**1.61**	
Per Capita GHG Significance Threshold						**1.77**	
Will the Project Generate Significant Levels of GHG Emissions?						**No**	

Source: Compiled by LSA (May 2020) CalEEMod output files in Appendix A.

Note: Numbers in table may not appear to add up correctly due to rounding of all numbers.

CH_4 = methane
Bio-CO_2 = biological carbon dioxide
CO_2 = carbon dioxide
CO_2e = carbon dioxide equivalent
N_2O = nitrous oxide
NBio-CO_2 = non-biological carbon dioxide

Tables R and S show that with implementation of all the identified mitigation measures, project emissions are below the per capita GHG emissions threshold and the project's incremental contribution of GHG emissions will be less than significant.

GHG PLAN CONSISTENCY

To address the second CEQA Checklist question regarding consistency with an applicable plan adopted for the purposes of reducing GHG emissions, the *Sustainable Santee Plan* (Santee 2020) was reviewed. To be consistent, the proposed project should fall within the growth assumptions of the *Sustainable Santee Plan*, the GHG emissions associated with the proposed project should be consistent with the City's GHG reduction targets, and the proposed project should implement the applicable GHG reduction strategies identified in the Plan.

The *Sustainable Santee Plan* used demographic and land use forecasts in the City's General Plan. In addition, to account for the approved and pending residential development applications, a 2,000 residential dwelling unit buffer was added into the growth assumptions of the Plan. As shown in Table 11 of the *Sustainable Santee Plan* Appendix A (Santee 2020), the Fanita Ranch Project is included in the pending project list. Therefore, the project would fall within the growth assumptions of the *Sustainable Santee Plan*.

By achieving the per capita GHG threshold derived from the Sustainable Santee Plan, this quantitatively demonstrates that the proposed project would conform to the GHG reduction targets identified in the *Sustainable Santee Plan* and would help the City meet its GHG reduction commitments. Table T identifies the GHG reduction strategies from the Sustainable Santee Plan and their applicability to the proposed project, which demonstrates consistency of the proposed project with the *Sustainable Santee Plan*. The *Sustainable Santee Plan* Consistency Checklist completed for the proposed project is included in Appendix D.

By complying with the growth assumptions of the *Sustainable Santee Plan* reducing GHG emissions down to the per capita GHG thresholds developed from the Sustainable Santee Plan, and implementing GHG reduction strategies from the *Sustainable Santee Plan*, the project would not conflict with any applicable plans adopted for the purposes of reducing the emissions of GHGs. The impact would be less than significant with mitigation measures (**MM GHG-1** through **GHG-6, AIR-5** through **AIR-8**, and **AIR-10**).

Table T: *Sustainable Santee Plan* Community GHG Reduction Strategies

Sustainable Santee Plan	**Project Consistency** **Preferred Land Use Plan with School and Land Use Plan without School**
Goal 1: Increase Energy Efficiency in Existing Residential Units	Not Applicable. There are no existing residential units on the project site.
Goal 2: Increase Energy Efficiency in New Residential Units	Applicable. See Mitigation Measure AIR-8. The performance metric for Goal 2 within the Sustainable Santee Plan is to reduce energy use by 14 percent within an estimated 2,000 new residential units by 2035. Mitigation Measure AIR-8 prescribes a 14 percent increase in energy efficiency within a minimum of 2,949 residential units. Therefore, the project would be consistent with Goal 2.
Goal 3: Increase Energy Efficiency in Existing Commercial Units	Not Applicable. There are no existing commercial units on the project site.
Goal 4: Increase Energy Efficiency in New Commercial Units	Applicable. See Mitigation Measure AIR-8. The performance metric for Goal 4 within the Sustainable Santee Plan is to reduce energy use by 14 percent within 165 new commercial businesses. Implementation of this goal will result in the project increasing the energy efficiency of commercial buildings by an additional 14 percent. Therefore, the project would be consistent with Goal 4.
Goal 5: Decrease Energy Demand through Reducing Urban Heat Island Effect	Applicable. See Mitigation Measure GHG-5. In addition, the proposed project includes parks, trails, and habitat preserve would contribute to reducing urban heat island effect. Moreover, the project shall require use of light-colored, semi-reflective or cool roof technology for all roofing within the project including at least 60,000 sq. ft. of commercial rooftops. Therefore, the project would be consistent with Goal 5.
Goal 6: Decrease Greenhouse Gas emissions through Reducing Vehicle Miles Traveled	Applicable. See Mitigation Measure AIR-6. The applicable performance metric for Goal 6 within the Sustainable Santee Plan is to construct additional bike lanes as delineated in the City of Santee Bicycle Master Plan. The proposed project includes 9.14 miles of class 1 and class 2 bicycle paths. Therefore, the project would be consistent with Goal 6.

Table T: *Sustainable Santee Plan* Community GHG Reduction Strategies

Sustainable Santee Plan	**Project Consistency** **Preferred Land Use Plan with School and Land Use Plan without School**
Goal 7: Increase Use of Electric Vehicles	Applicable. See Mitigation Measures AIR-7 and GHG-6. The performance metric for Goal 7 within the Sustainable Santee Plan is to install 4,500 electric vehicle charging equipment (EVSE) Citywide by 2035. The proposed project will install at least 1,572 EVSE by 2035. Therefore, the project would be consistent with Goal 7.
Goal 8: Improve Traffic Flow	Applicable. See Mitigation Measure TRA-16 in the Transportation Impact Analysis for the Fanita Ranch Project (LLG 2020). The project would implement adaptive traffic signal control (e.g., smart signals) along Mission Gorge Road from Fanita Drive to Town Center Parkway to improve traffic flow and reduce project transportation impacts along that roadway. Therefore, the project would be consistent with Goal 8.
Goal 9: Decrease Greenhouse Gas Emissions through Reducing Solid Waste Generation	Applicable. See Mitigation Measure GHG-2. The performance metric for Goal 9 within the Sustainable Santee Plan is to divert at least 80 percent of solid waste by 2035. Mitigation Measure GHG-2 requires the Fanita Ranch Project to divert 90 percent of the solid waste by 2035. Therefore, the project would be consistent with Goal 9.
Goal 10: Decrease Greenhouse Gas Emissions through Increasing Clean Energy Use	Applicable. See Mitigation Measure GHG-1. The performance metric for Goal 10 within the Sustainable Santee Plan is to install a total of 4.7 megawatts of PV solar by 2035. The proposed project will install PV solar totaling 12.147 megawatts of PV solar by 2035, greatly exceeding the goal for the City as a whole. Therefore, the project would be consistent with Goal 10.

Source: Sustainable Santee Plan (City of Santee 2020). Compiled by LSA (May 2020).

With mitigation, the proposed project complies with the Sustainable Santee Plan.

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APPENDIX A

CALEEMOD PRINTOUTS

APPENDIX A

CALEEMOD PRINTOUT: CONSTRUCTION PERIOD PHASES 1 THRU 4 ANNUAL EMISSIONS

Fanita Ranch Construction - San Diego County APCD Air District, Annual

Fanita Ranch Construction Phase 1-2

San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	1,000.00	Student	19.20	83,603.37	0
User Defined Industrial	1.00	User Defined Unit	69.60	0.00	0
City Park	31.40	Acre	31.40	1,367,784.00	0
City Park	28.90	Acre	28.90	1,258,884.00	0
City Park	12.40	Acre	12.40	540,144.00	0
Apartments Low Rise	797.00	Dwelling Unit	63.90	797,000.00	2279
Apartments Low Rise	435.00	Dwelling Unit	27.19	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,272.00	Dwelling Unit	248.00	2,289,600.00	3638
Regional Shopping Center	60.00	1000sqft	9.31	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Value changed to reflect the Fanita Ranch Specific Plan

Construction Phase - Construction phasing provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

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Trips and VMT - assume 1 hauling trip per day, 10 miles per trip (cut and fill balanced onsite)

On-road Fugitive Dust - assume 50% onsite roadways for hauling trips are paved

Grading - grading acreage provided by developer

Construction Off-road Equipment Mitigation - fugitive dust control

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	250	0
tblAreaCoating	Area_Nonresidential_Exterior	76802	0
tblAreaCoating	Area_Nonresidential_Interior	230405	0
tblAreaCoating	Area_Residential_Exterior	2677455	0
tblAreaCoating	Area_Residential_Interior	8032365	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	44.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	33.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	126.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	21.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	32.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	25.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	9,300.00	720.00
tblConstructionPhase	NumDays	9,300.00	920.00
tblConstructionPhase	NumDays	930.00	480.00
tblConstructionPhase	NumDays	930.00	360.00
tblConstructionPhase	NumDays	930.00	320.00
tblConstructionPhase	NumDays	660.00	440.00
tblConstructionPhase	NumDays	660.00	280.00
tblConstructionPhase	NumDays	360.00	40.00
tblConstructionPhase	NumDays	360.00	40.00

tblConstructionPhase	NumDays	360.00	40.00
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tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDA	0.62	0.00
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tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00

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tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
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tblFleetMix	LHD2	5.2820e-003	0.00
tblFleetMix	LHD2	5.2820e-003	0.00
tblFleetMix	LHD2	5.2820e-003	0.00
tblFleetMix	LHD2	5.2820e-003	0.00
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tblFleetMix	MCY	5.5480e-003	0.00
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tblFleetMix	MCY	5.5480e-003	0.00
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tblFleetMix	MDV	0.10	0.00
tblFleetMix	MDV	0.10	0.00
tblFleetMix	MDV	0.10	0.00
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tblFleetMix	MH	7.0900e-004	0.00
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tblFleetMix	MHD	0.02	0.00
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tblFleetMix	OBUS	1.9440e-003	0.00
tblFleetMix	OBUS	1.9440e-003	0.00
tblFleetMix	OBUS	1.9440e-003	0.00
tblFleetMix	OBUS	1.9440e-003	0.00
tblFleetMix	OBUS	1.9440e-003	0.00
tblFleetMix	OBUS	1.9440e-003	0.00
tblFleetMix	OBUS	1.9440e-003	0.00
tblFleetMix	SBUS	8.0000e-004	0.00
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tblFleetMix	SBUS	8.0000e-004	0.00
tblFleetMix	SBUS	8.0000e-004	0.00
tblFleetMix	SBUS	8.0000e-004	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
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tblGrading	AcresOfGrading	1,091.25	253.00
tblGrading	AcresOfGrading	3,102.00	240.00
tblGrading	AcresOfGrading	0.00	253.00

tblGrading	AcresOfGrading	0.00	208.50
tblGrading	AcresOfGrading	0.00	240.00
tblLandUse	LotAcreage	1.92	19.20
tblLandUse	LotAcreage	0.00	69.60
tblLandUse	LotAcreage	49.81	63.90
tblLandUse	LotAcreage	89.00	30.90
tblLandUse	LotAcreage	412.99	248.00
tblLandUse	LotAcreage	1.38	9.31
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tblOffRoadEquipment	HorsePower	80.00	102.00
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tblOffRoadEquipment	HorsePower	80.00	36.00
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tblOffRoadEquipment	HorsePower	187.00	150.00
tblOffRoadEquipment	HorsePower	402.00	300.00

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tblOffRoadEquipment	HorsePower	402.00	450.00
tblOffRoadEquipment	HorsePower	402.00	170.00
tblOffRoadEquipment	HorsePower	402.00	170.00
tblOffRoadEquipment	HorsePower	402.00	450.00

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tblOffRoadEquipment	HorsePower	97.00	164.00
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tblOffRoadEquipment	HorsePower	97.00	170.00
tblOffRoadEquipment	HorsePower	97.00	78.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.10
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	1.10

tblOffRoadEquipment	UsageHours	8.00	2.30
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	7.10
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.90
tblOffRoadEquipment	UsageHours	8.00	0.90
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	1.10
tblOffRoadEquipment	UsageHours	8.00	1.10
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tblOffRoadEquipment	UsageHours	8.00	2.30
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tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	7.10
tblOffRoadEquipment	UsageHours	8.00	7.10

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tblOffRoadEquipment	UsageHours	8.00	6.00
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tblOffRoadEquipment	UsageHours	8.00	5.10
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tblOffRoadEquipment	UsageHours	8.00	4.80
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	2.30
tblOffRoadEquipment	UsageHours	8.00	7.10
tblOffRoadEquipment	UsageHours	8.00	0.70
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	1.80
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00

tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	17,355.00
tblTripsAndVMT	HaulingTripNumber	0.00	23,354.00
tblTripsAndVMT	HaulingTripNumber	0.00	320.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	11,677.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00
tblTripsAndVMT	VendorTripNumber	858.00	165.00
tblTripsAndVMT	VendorTripNumber	858.00	312.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00
tblTripsAndVMT	WorkerTripNumber	3,050.00	588.00
tblTripsAndVMT	WorkerTripNumber	3,050.00	1,099.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3246	3.7598	2.2744	5.9600e-003	23.4781	0.1333	23.6114	2.4315	0.1227	2.5542	0.0000	530.6793	530.6793	0.1530	0.0000	534.5034
2022	0.8263	9.0479	5.8859	0.0176	23.8168	0.3076	24.1243	2.5276	0.2830	2.8106	0.0000	1,565.7976	1,565.7976	0.4449	0.0000	1,576.9206
2023	0.5946	3.9247	5.3085	0.0168	24.0637	0.1257	24.1894	2.5164	0.1162	2.6326	0.0000	1,520.8114	1,520.8114	0.2715	0.0000	1,527.5992
2024	1.8266	15.5113	14.2605	0.0462	14.3040	0.4928	14.7968	2.1235	0.4552	2.5787	0.0000	4,188.4799	4,188.4799	0.7540	0.0000	4,207.3302
2025	2.8380	24.9500	21.8234	0.0707	15.5291	0.8452	16.3742	2.7809	0.7791	3.5600	0.0000	6,349.4166	6,349.4166	1.4693	0.0000	6,386.1482

2026	1.6303	12.5367	14.0227	0.0479	19.8562	0.3585	20.2147	2.4933	0.3318	2.8250	0.0000	4,361.7942	4,361.7942	0.7332	0.0000	4,380.1244
2027	1.4285	12.2609	11.5287	0.0386	18.9584	0.3821	19.3405	2.3594	0.3534	2.7128	0.0000	3,498.3064	3,498.3064	0.6755	0.0000	3,515.1937
2028	0.6270	5.1580	5.5264	0.0185	18.0722	0.1450	18.2171	1.9930	0.1348	2.1278	0.0000	1,691.1854	1,691.1854	0.2532	0.0000	1,697.5142
2029	0.2250	1.7724	2.1361	7.2800e-003	0.3748	0.0436	0.4183	0.1012	0.0408	0.1420	0.0000	670.4696	670.4696	0.0765	0.0000	672.3826
Maximum	**2.8380**	**24.9500**	**21.8234**	**0.0707**	**24.0637**	**0.8452**	**24.1894**	**2.7809**	**0.7791**	**3.5600**	**0.0000**	**6,349.4166**	**6,349.4166**	**1.4693**	**0.0000**	**6,386.1482**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0876	0.6958	2.5135	5.9600e-003	5.0681	0.0128	5.0809	0.5306	0.0124	0.5430	0.0000	530.6788	530.6788	0.1530	0.0000	534.5029
2022	0.2558	1.8317	7.3906	0.0176	5.1916	0.0295	5.2211	0.5670	0.0291	0.5961	0.0000	1,565.7960	1,565.7960	0.4449	0.0000	1,576.9191
2023	0.4045	2.0644	6.5889	0.0168	5.5306	0.0459	5.5764	0.6415	0.0438	0.6853	0.0000	1,520.8105	1,520.8105	0.2715	0.0000	1,527.5983
2024	1.0053	6.1967	16.1588	0.0462	4.0068	0.1168	4.1236	0.7240	0.1120	0.8360	0.0000	4,188.4774	4,188.4774	0.7540	0.0000	4,207.3277
2025	1.2631	7.5445	27.2110	0.0707	4.2719	0.1491	4.4210	0.8768	0.1448	1.0216	0.0000	6,349.4114	6,349.4114	1.4693	0.0000	6,386.1430
2026	1.0719	6.8577	16.6662	0.0479	5.3410	0.1254	5.4664	0.8390	0.1198	0.9588	0.0000	4,361.7918	4,361.7918	0.7332	0.0000	4,380.1220
2027	0.8103	5.5122	13.8438	0.0386	4.7724	0.1115	4.8840	0.7075	0.1069	0.8145	0.0000	3,498.3040	3,498.3040	0.6755	0.0000	3,515.1913
2028	0.4556	3.3681	6.1785	0.0185	4.3234	0.0721	4.3955	0.5529	0.0685	0.6214	0.0000	1,691.1845	1,691.1845	0.2532	0.0000	1,697.5134
2029	0.1967	1.5251	2.2528	7.2800e-003	0.2933	0.0328	0.3261	0.0812	0.0310	0.1122	0.0000	670.4694	670.4694	0.0765	0.0000	672.3824
Maximum	**1.2631**	**7.5445**	**27.2110**	**0.0707**	**5.5306**	**0.1491**	**5.5764**	**0.8768**	**0.1448**	**1.0216**	**0.0000**	**6,349.4114**	**6,349.4114**	**1.4693**	**0.0000**	**6,386.1430**

	ROG	NOx	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	**46.22**	**59.97**	**-19.38**	**0.00**	**75.51**	**75.45**	**75.51**	**71.44**	**74.46**	**71.80**	**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	7-1-2021	9-30-2021	1.4688	0.2921
2	10-1-2021	12-31-2021	2.5899	0.4839
3	1-1-2022	3-31-2022	2.2629	0.4592
4	4-1-2022	6-30-2022	2.2915	0.4677
5	7-1-2022	9-30-2022	2.5023	0.5298
6	10-1-2022	12-31-2022	2.8332	0.6303
7	1-1-2023	3-31-2023	0.7876	0.2229
8	4-1-2023	6-30-2023	0.6691	0.2094
9	7-1-2023	9-30-2023	0.9119	0.4178
10	10-1-2023	12-31-2023	2.1491	1.6243
11	1-1-2024	3-31-2024	1.8009	1.4733
12	4-1-2024	6-30-2024	1.7775	1.4499
13	7-1-2024	9-30-2024	4.8889	1.8980
14	10-1-2024	12-31-2024	8.7700	2.3477
15	1-1-2025	3-31-2025	7.4182	2.2212
16	4-1-2025	6-30-2025	7.4820	2.2272
17	7-1-2025	9-30-2025	7.7721	2.3275
18	10-1-2025	12-31-2025	5.0154	2.0036
19	1-1-2026	3-31-2026	2.1056	1.5458
20	4-1-2026	6-30-2026	3.3482	1.8048
21	7-1-2026	9-30-2026	3.8745	1.8473
22	10-1-2026	12-31-2026	4.7767	2.6994
23	1-1-2027	3-31-2027	4.5357	2.5284
24	4-1-2027	6-30-2027	3.0203	1.2498
25	7-1-2027	9-30-2027	3.0535	1.2635
26	10-1-2027	12-31-2027	3.0624	1.2724
27	1-1-2028	3-31-2028	2.7765	1.2033
28	4-1-2028	6-30-2028	1.0100	0.8712
29	7-1-2028	9-30-2028	1.0211	0.8807
30	10-1-2028	12-31-2028	1.0302	0.8898
31	1-1-2029	3-31-2029	0.9986	0.8612

32	**4-1-2029**	**6-30-2029**	0.9792	0.8433
		Highest	8.7700	2.6994

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	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.7962	1,847.0282	6,165.8244	4.0196	0.3397	6,367.5475
Energy	0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	8,734.2115	8,734.2115	0.2962	0.0990	8,771.1204
Mobile	0.0000	0.0000	0.0000	0.0000	21.8199	0.0000	21.8199	5.3558	0.0000	5.3558	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	510.4715	0.0000	510.4715	30.1680	0.0000	1,264.6716
Water						0.0000	0.0000		0.0000	0.0000	63.1360	1,633.6925	1,696.8285	6.5504	0.1667	1,910.2724
Total	**279.3816**	**7.6441**	**346.6409**	**0.6023**	**21.8199**	**45.7092**	**67.5290**	**5.3558**	**45.7092**	**51.0650**	**4,892.4037**	**12,214.9322**	**17,107.3359**	**41.0343**	**0.6054**	**18,313.6119**

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	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.7962	1,847.0282	6,165.8244	4.0196	0.3397	6,367.5475
Energy	0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	8,734.2115	8,734.2115	0.2962	0.0990	8,771.1204
Mobile	0.0000	0.0000	0.0000	0.0000	21.8199	0.0000	21.8199	5.3558	0.0000	5.3558	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	510.4715	0.0000	510.4715	30.1680	0.0000	1,264.6716

Water						0.0000	0.0000		0.0000	0.0000	63.1360	1,633.6925	1,696.8285	6.5504	0.1667	1,910.2724
Total	**279.3816**	**7.6441**	**346.6409**	**0.6023**	**21.8199**	**45.7092**	**67.5290**	**5.3558**	**45.7092**	**51.0650**	**4,892.4037**	**12,214.9322**	**17,107.3359**	**41.0343**	**0.6054**	**18,313.6119**

	ROG	NOx	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	Phase 1 Site Preparation	Site Preparation	7/1/2021	8/25/2021	5	40	
2	Phase 1 Grading	Grading	8/26/2021	1/11/2023	5	360	
3	Phase 1 Utilities	Trenching	8/29/2022	11/17/2023	5	320	
4	Phase 1 Surface Improvements	Paving	2/27/2023	11/1/2024	5	440	
5	Phase 1 Building Construction	Building Construction	9/18/2023	3/26/2027	5	920	
6	Phase 2 Site Preparation	Site Preparation	7/1/2024	8/23/2024	5	40	
7	Phase 2 Grading	Grading	8/26/2024	11/14/2025	5	320	
8	Phase 2 Utilities	Trenching	8/25/2025	7/24/2026	5	240	
9	Phase 2 Surface Improvements	Paving	2/23/2026	3/19/2027	5	280	
10	Phase 3 Site Preparation	Site Preparation	3/24/2026	5/18/2026	5	40	
11	Phase 3 Grading	Grading	5/19/2026	3/20/2028	5	480	
12	Phase 2 Building Construction	Building Construction	9/28/2026	6/28/2029	5	720	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

Phase 1 Site Preparation	Rubber Tired Dozers	1	5.10	436	0.40
Phase 1 Site Preparation	Rubber Tired Loaders	1	5.10	249	0.36
Phase 1 Grading	Excavators	1	0.20	760	0.38
Phase 1 Grading	Graders	1	2.30	275	0.41
Phase 1 Grading	Graders	1	0.20	275	0.41
Phase 1 Grading	Off-Highway Trucks	3	2.30	300	0.38
Phase 1 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 1 Grading	Off-Highway Trucks	2	0.20	300	0.38
Phase 1 Grading	Plate Compactors	1	2.30	554	0.43
Phase 1 Grading	Rubber Tired Dozers	1	2.30	600	0.40
Phase 1 Grading	Rubber Tired Dozers	1	2.30	354	0.40
Phase 1 Grading	Rubber Tired Dozers	1	2.30	436	0.40
Phase 1 Grading	Rubber Tired Dozers	1	0.20	600	0.40
Phase 1 Grading	Rubber Tired Dozers	2	0.20	436	0.40
Phase 1 Grading	Scrapers	10	2.30	600	0.48
Phase 1 Grading	Tractors/Loaders/Backhoes	1	0.60	249	0.37
Phase 1 Utilities	Excavators	1	1.10	417	0.38
Phase 1 Utilities	Excavators	1	0.50	235	0.38
Phase 1 Utilities	Excavators	1	1.00	235	0.38
Phase 1 Utilities	Excavators	1	2.90	235	0.38
Phase 1 Utilities	Excavators	1	0.90	417	0.38
Phase 1 Utilities	Excavators	1	0.50	235	0.38
Phase 1 Utilities	Excavators	1	7.00	235	0.38
Phase 1 Utilities	Excavators	1	0.40	417	0.38
Phase 1 Utilities	Excavators	1	0.20	235	0.38
Phase 1 Utilities	Excavators	1	0.30	235	0.38
Phase 1 Utilities	Excavators	1	2.90	140	0.38
Phase 1 Utilities	Excavators	1	1.70	85	0.38
Phase 1 Utilities	Excavators	1	2.00	417	0.38
Phase 1 Utilities	Excavators	1	1.00	235	0.38
Phase 1 Utilities	Excavators	1	3.00	235	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.20	450	0.38

Phase 1 Utilities	Off-Highway Trucks	1	0.40	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.40	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.40	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	1.00	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.30	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	1.10	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	2.40	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.20	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.10	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.50	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	1.10	170	0.38
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.80	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.50	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	1.50	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.70	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	3.50	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.30	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.20	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	2.50	164	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	1.50	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	1.50	170	0.37
Phase 1 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 1 Surface Improvements	Graders	1	0.60	150	0.41
Phase 1 Surface Improvements	Graders	1	0.60	150	0.41
Phase 1 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38

Phase 1 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 1 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 1 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 1 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 1 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 1 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 1 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 1 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 1 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 1 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 1 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 1 Building Construction	Cement and Mortar Mixers	1	3.00	505	0.56
Phase 1 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 1 Building Construction	Off-Highway Trucks	1	1.30	170	0.38
Phase 1 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 1 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 2 Site Preparation	Rubber Tired Dozers	1	4.80	436	0.40
Phase 2 Site Preparation	Rubber Tired Loaders	1	4.80	249	0.36
Phase 2 Grading	Excavators	1	6.00	760	0.38
Phase 2 Grading	Graders	1	7.10	275	0.41
Phase 2 Grading	Graders	1	6.00	275	0.41
Phase 2 Grading	Off-Highway Trucks	3	7.10	300	0.38
Phase 2 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 2 Grading	Off-Highway Trucks	2	6.00	300	0.38
Phase 2 Grading	Plate Compactors	1	7.10	554	0.43
Phase 2 Grading	Rubber Tired Dozers	1	7.10	600	0.40
Phase 2 Grading	Rubber Tired Dozers	1	7.10	354	0.40
Phase 2 Grading	Rubber Tired Dozers	1	7.10	436	0.40
Phase 2 Grading	Rubber Tired Dozers	1	6.00	600	0.40

Phase 2 Grading	Rubber Tired Dozers	2	6.00	436	0.40
Phase 2 Grading	Scrapers	10	7.10	600	0.48
Phase 2 Grading	Tractors/Loaders/Backhoes	1	1.80	249	0.37
Phase 2 Utilities	Excavators	1	2.10	417	0.38
Phase 2 Utilities	Excavators	1	1.10	235	0.38
Phase 2 Utilities	Excavators	1	2.00	235	0.38
Phase 2 Utilities	Excavators	1	3.70	235	0.38
Phase 2 Utilities	Excavators	1	1.50	417	0.38
Phase 2 Utilities	Excavators	1	0.80	235	0.38
Phase 2 Utilities	Excavators	1	9.00	235	0.38
Phase 2 Utilities	Excavators	1	0.60	417	0.38
Phase 2 Utilities	Excavators	1	0.30	235	0.38
Phase 2 Utilities	Excavators	1	1.00	235	0.38
Phase 2 Utilities	Excavators	1	4.20	140	0.38
Phase 2 Utilities	Excavators	1	2.50	85	0.38
Phase 2 Utilities	Excavators	1	2.40	417	0.38
Phase 2 Utilities	Excavators	1	1.20	235	0.38
Phase 2 Utilities	Excavators	1	3.70	235	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.60	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	1.30	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.50	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	1.40	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	3.10	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.20	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.40	170	0.38

Phase 2 Utilities	Off-Highway Trucks	1	0.40	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.80	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.60	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	1.30	170	0.38
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.60	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.00	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.80	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.10	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	4.50	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	0.40	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	0.50	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	3.60	164	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.80	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.90	170	0.37
Phase 2 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 2 Surface Improvements	Graders	1	0.60	150	0.41
Phase 2 Surface Improvements	Graders	1	0.60	150	0.41
Phase 2 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 2 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 2 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 2 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 2 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 2 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 2 Surface Improvements	Scrapers	1	0.60	150	0.48

Phase 2 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 3 Site Preparation	Rubber Tired Dozers	1	4.20	436	0.40
Phase 3 Site Preparation	Rubber Tired Loaders	1	4.20	249	0.36
Phase 3 Grading	Excavators	1	1.10	760	0.38
Phase 3 Grading	Graders	1	2.60	275	0.41
Phase 3 Grading	Graders	1	1.10	275	0.41
Phase 3 Grading	Off-Highway Trucks	3	2.60	300	0.38
Phase 3 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 3 Grading	Off-Highway Trucks	2	1.10	300	0.38
Phase 3 Grading	Plate Compactors	1	2.60	554	0.43
Phase 3 Grading	Rubber Tired Dozers	1	2.60	600	0.40
Phase 3 Grading	Rubber Tired Dozers	1	2.60	354	0.40
Phase 3 Grading	Rubber Tired Dozers	1	2.60	436	0.40
Phase 3 Grading	Rubber Tired Dozers	1	1.10	600	0.40
Phase 3 Grading	Rubber Tired Dozers	2	1.10	436	0.40
Phase 3 Grading	Scrapers	10	2.60	600	0.48
Phase 3 Grading	Tractors/Loaders/Backhoes	1	0.70	249	0.37
Phase 2 Building Construction	Cement and Mortar Mixers	1	2.00	505	0.56
Phase 2 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 2 Building Construction	Off-Highway Trucks	1	0.80	170	0.38
Phase 2 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 2 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 2 Building Construction	Cranes	1	7.00	231	0.29
Phase 1 Building Construction	Cranes	1	7.00	231	0.29
Phase 2 Building Construction	Forklifts	3	8.00	89	0.20
Phase 1 Building Construction	Forklifts	3	8.00	89	0.20
Phase 2 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 1 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 1 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 3 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Phase 2 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 2 Building Construction	Welders	1	8.00	46	0.45
Phase 1 Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 1 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Grading	29	73.00	0.00	23,354.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Utilities	43	108.00	0.00	320.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Building Construction	18	1,099.00	312.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Grading	29	73.00	0.00	11,677.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Utilities	43	108.00	0.00	240.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Grading	29	73.00	0.00	17,355.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Building Construction	18	588.00	165.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Phase 1 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2109	0.0000	0.2109	0.0567	0.0000	0.0567	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0397	0.4114	0.3643	5.4000e-004		0.0201	0.0201		0.0185	0.0185	0.0000	47.4657	47.4657	0.0154	0.0000	47.8495
Total	**0.0397**	**0.4114**	**0.3643**	**5.4000e-004**	**0.2109**	**0.0201**	**0.2310**	**0.0567**	**0.0185**	**0.0751**	**0.0000**	**47.4657**	**47.4657**	**0.0154**	**0.0000**	**47.8495**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	2.3500e-003	4.3000e-004	0.0000	0.0393	0.0000	0.0394	3.9300e-003	0.0000	3.9400e-003	0.0000	0.3948	0.3948	5.0000e-005	0.0000	0.3961
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	3.5000e-004	2.5000e-004	2.5000e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.1000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.7005	0.7005	2.0000e-005	0.0000	0.7010
Total	**4.0000e-004**	**2.6000e-003**	**2.9300e-003**	**1.0000e-005**	**0.0401**	**1.0000e-005**	**0.0402**	**4.1400e-003**	**1.0000e-005**	**4.1600e-003**	**0.0000**	**1.0953**	**1.0953**	**7.0000e-005**	**0.0000**	**1.0971**

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					0.0518	0.0000	0.0518	0.0139	0.0000	0.0139	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0116	0.0868	0.3152	5.4000e-004		4.4700e-003	4.4700e-003		4.1700e-003	4.1700e-003	0.0000	47.4656	47.4656	0.0154	0.0000	47.8494
Total	**0.0116**	**0.0868**	**0.3152**	**5.4000e-004**	**0.0518**	**4.4700e-003**	**0.0563**	**0.0139**	**4.1700e-003**	**0.0181**	**0.0000**	**47.4656**	**47.4656**	**0.0154**	**0.0000**	**47.8494**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	2.3500e-003	4.3000e-004	0.0000	8.4500e-003	0.0000	8.4500e-003	8.5000e-004	0.0000	8.5000e-004	0.0000	0.3948	0.3948	5.0000e-005	0.0000	0.3961
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	3.5000e-004	2.5000e-004	2.5000e-003	1.0000e-005	6.2000e-004	1.0000e-005	6.3000e-004	1.7000e-004	1.0000e-005	1.7000e-004	0.0000	0.7005	0.7005	2.0000e-005	0.0000	0.7010
Total	**4.0000e-004**	**2.6000e-003**	**2.9300e-003**	**1.0000e-005**	**9.0700e-003**	**1.0000e-005**	**9.0800e-003**	**1.0200e-003**	**1.0000e-005**	**1.0200e-003**	**0.0000**	**1.0953**	**1.0953**	**7.0000e-005**	**0.0000**	**1.0971**

3.3 Phase 1 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2346	0.0000	0.2346	0.0697	0.0000	0.0697	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2652	2.9866	1.7598	4.5500e-003		0.1126	0.1126		0.1036	0.1036	0.0000	399.6868	399.6868	0.1293	0.0000	402.9184
Total	**0.2652**	**2.9866**	**1.7598**	**4.5500e-003**	**0.2346**	**0.1126**	**0.3472**	**0.0697**	**0.1036**	**0.1733**	**0.0000**	**399.6868**	**399.6868**	**0.1293**	**0.0000**	**402.9184**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.6700e-003	0.3508	0.0635	5.9000e-004	22.9655	4.9000e-004	22.9660	2.2938	4.7000e-004	2.2943	0.0000	58.9080	58.9080	7.6000e-003	0.0000	59.0980
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0117	8.3300e-003	0.0839	2.6000e-004	0.0269	1.9000e-004	0.0271	7.1600e-003	1.8000e-004	7.3300e-003	0.0000	23.5236	23.5236	6.7000e-004	0.0000	23.5404
Total	**0.0193**	**0.3592**	**0.1474**	**8.5000e-004**	**22.9924**	**6.8000e-004**	**22.9931**	**2.3010**	**6.5000e-004**	**2.3016**	**0.0000**	**82.4316**	**82.4316**	**8.2700e-003**	**0.0000**	**82.6384**

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					0.0576	0.0000	0.0576	0.0171	0.0000	0.0171	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0563	0.2473	2.0480	4.5500e-003		7.6300e-003	7.6300e-003		7.6100e-003	7.6100e-003	0.0000	399.6863	399.6863	0.1293	0.0000	402.9180
Total	**0.0563**	**0.2473**	**2.0480**	**4.5500e-003**	**0.0576**	**7.6300e-003**	**0.0653**	**0.0171**	**7.6100e-003**	**0.0247**	**0.0000**	**399.6863**	**399.6863**	**0.1293**	**0.0000**	**402.9180**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.6700e-003	0.3508	0.0635	5.9000e-004	4.9287	4.9000e-004	4.9292	0.4929	4.7000e-004	0.4934	0.0000	58.9080	58.9080	7.6000e-003	0.0000	59.0980

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0117	8.3300e-003	0.0839	2.6000e-004	0.0209	1.9000e-004	0.0211	5.6700e-003	1.8000e-004	5.8400e-003	0.0000	23.5236	23.5236	6.7000e-004	0.0000	23.5404
Total	**0.0193**	**0.3592**	**0.1474**	**8.5000e-004**	**4.9495**	**6.8000e-004**	**4.9502**	**0.4986**	**6.5000e-004**	**0.4992**	**0.0000**	**82.4316**	**82.4316**	**8.2700e-003**	**0.0000**	**82.6384**

3.3 Phase 1 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4179	0.0000	0.4179	0.1705	0.0000	0.1705	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6877	7.4622	4.6286	0.0129		0.2812	0.2812		0.2587	0.2587	0.0000	1,128.7745	1,128.7745	0.3651	0.0000	1,137.9012
Total	**0.6877**	**7.4622**	**4.6286**	**0.0129**	**0.4179**	**0.2812**	**0.6992**	**0.1705**	**0.2587**	**0.4292**	**0.0000**	**1,128.7745**	**1,128.7745**	**0.3651**	**0.0000**	**1,137.9012**

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	0.0203	0.9414	0.1751	1.6500e-003	22.9691	1.1700e-003	22.9703	2.2951	1.1200e-003	2.2962	0.0000	164.5921	164.5921	0.0206	0.0000	165.1071
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0312	0.0215	0.2201	7.1000e-004	0.0761	5.3000e-004	0.0766	0.0202	4.9000e-004	0.0207	0.0000	64.0426	64.0426	1.7500e-003	0.0000	64.0862
Total	**0.0515**	**0.9628**	**0.3952**	**2.3600e-003**	**23.0452**	**1.7000e-003**	**23.0469**	**2.3153**	**1.6100e-003**	**2.3169**	**0.0000**	**228.6347**	**228.6347**	**0.0224**	**0.0000**	**229.1933**

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					0.1027	0.0000	0.1027	0.0419	0.0000	0.0419	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1589	0.6960	5.7875	0.0129		0.0215	0.0215		0.0214	0.0214	0.0000	1,128.7731	1,128.7731	0.3651	0.0000	1,137.8998
Total	**0.1589**	**0.6960**	**5.7875**	**0.0129**	**0.1027**	**0.0215**	**0.1242**	**0.0419**	**0.0214**	**0.0633**	**0.0000**	**1,128.7731**	**1,128.7731**	**0.3651**	**0.0000**	**1,137.8998**

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	0.0203	0.9414	0.1751	1.6500e-003	4.9322	1.1700e-003	4.9334	0.4942	1.1200e-003	0.4953	0.0000	164.5921	164.5921	0.0206	0.0000	165.1071
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0312	0.0215	0.2201	7.1000e-004	0.0590	5.3000e-004	0.0595	0.0160	4.9000e-004	0.0165	0.0000	64.0426	64.0426	1.7500e-003	0.0000	64.0862
Total	**0.0515**	**0.9628**	**0.3952**	**2.3600e-003**	**4.9912**	**1.7000e-003**	**4.9929**	**0.5102**	**1.6100e-003**	**0.5118**	**0.0000**	**228.6347**	**228.6347**	**0.0224**	**0.0000**	**229.1933**

3.3 Phase 1 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1429	0.0000	0.1429	0.0193	0.0000	0.0193	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0205	0.2158	0.1409	4.0000e-004		8.1800e-003	8.1800e-003		7.5300e-003	7.5300e-003	0.0000	34.7334	34.7334	0.0112	0.0000	35.0142
Total	**0.0205**	**0.2158**	**0.1409**	**4.0000e-004**	**0.1429**	**8.1800e-003**	**0.1511**	**0.0193**	**7.5300e-003**	**0.0268**	**0.0000**	**34.7334**	**34.7334**	**0.0112**	**0.0000**	**35.0142**

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	4.5000e-004	0.0233	4.8700e-003	5.0000e-005	22.9637	2.0000e-005	22.9637	2.2932	2.0000e-005	2.2932	0.0000	4.8880	4.8880	5.6000e-004	0.0000	4.9019
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	6.0000e-004	6.2800e-003	2.0000e-005	2.3400e-003	2.0000e-005	2.3600e-003	6.2000e-004	1.0000e-005	6.4000e-004	0.0000	1.8953	1.8953	5.0000e-005	0.0000	1.8965
Total	**1.3600e-003**	**0.0239**	**0.0112**	**7.0000e-005**	**22.9661**	**4.0000e-005**	**22.9661**	**2.2938**	**3.0000e-005**	**2.2938**	**0.0000**	**6.7833**	**6.7833**	**6.1000e-004**	**0.0000**	**6.7984**

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					0.0351	0.0000	0.0351	4.7400e-003	0.0000	4.7400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8800e-003	0.0213	0.1781	4.0000e-004		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	34.7334	34.7334	0.0112	0.0000	35.0142
Total	**4.8800e-003**	**0.0213**	**0.1781**	**4.0000e-004**	**0.0351**	**6.6000e-004**	**0.0358**	**4.7400e-003**	**6.6000e-004**	**5.4000e-003**	**0.0000**	**34.7334**	**34.7334**	**0.0112**	**0.0000**	**35.0142**

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	4.5000e-004	0.0233	4.8700e-003	5.0000e-005	4.9269	2.0000e-005	4.9269	0.4922	2.0000e-005	0.4923	0.0000	4.8880	4.8880	5.6000e-004	0.0000	4.9019
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	6.0000e-004	6.2800e-003	2.0000e-005	1.8100e-003	2.0000e-005	1.8300e-003	4.9000e-004	1.0000e-005	5.1000e-004	0.0000	1.8953	1.8953	5.0000e-005	0.0000	1.8965
Total	**1.3600e-003**	**0.0239**	**0.0112**	**7.0000e-005**	**4.9287**	**4.0000e-005**	**4.9287**	**0.4927**	**3.0000e-005**	**0.4928**	**0.0000**	**6.7833**	**6.7833**	**6.1000e-004**	**0.0000**	**6.7984**

3.4 Phase 1 Utilities - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0710	0.6069	0.7484	1.9900e-003		0.0244	0.0244		0.0224	0.0224	0.0000	174.7128	174.7128	0.0565	0.0000	176.1254
Total	**0.0710**	**0.6069**	**0.7484**	**1.9900e-003**		**0.0244**	**0.0244**		**0.0224**	**0.0224**	**0.0000**	**174.7128**	**174.7128**	**0.0565**	**0.0000**	**176.1254**

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	1.1000e-004	5.0200e-003	9.3000e-004	1.0000e-005	0.3147	1.0000e-005	0.3147	0.0314	1.0000e-005	0.0314	0.0000	0.8783	0.8783	1.1000e-004	0.0000	0.8810

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0160	0.0110	0.1127	3.6000e-004	0.0390	2.7000e-004	0.0392	0.0104	2.5000e-004	0.0106	0.0000	32.7974	32.7974	8.9000e-004	0.0000	32.8197
Total	**0.0161**	**0.0160**	**0.1137**	**3.7000e-004**	**0.3537**	**2.8000e-004**	**0.3539**	**0.0418**	**2.6000e-004**	**0.0420**	**0.0000**	**33.6756**	**33.6756**	**1.0000e-003**	**0.0000**	**33.7007**

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	0.0293	0.1569	1.0942	1.9900e-003		6.0200e-003	6.0200e-003		5.7800e-003	5.7800e-003	0.0000	174.7126	174.7126	0.0565	0.0000	176.1252
Total	**0.0293**	**0.1569**	**1.0942**	**1.9900e-003**		**6.0200e-003**	**6.0200e-003**		**5.7800e-003**	**5.7800e-003**	**0.0000**	**174.7126**	**174.7126**	**0.0565**	**0.0000**	**176.1252**

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	1.1000e-004	5.0200e-003	9.3000e-004	1.0000e-005	0.0675	1.0000e-005	0.0675	6.7500e-003	1.0000e-005	6.7600e-003	0.0000	0.8783	0.8783	1.1000e-004	0.0000	0.8810
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0160	0.0110	0.1127	3.6000e-004	0.0302	2.7000e-004	0.0305	8.2000e-003	2.5000e-004	8.4500e-003	0.0000	32.7974	32.7974	8.9000e-004	0.0000	32.8197
Total	**0.0161**	**0.0160**	**0.1137**	**3.7000e-004**	**0.0977**	**2.8000e-004**	**0.0980**	**0.0150**	**2.6000e-004**	**0.0152**	**0.0000**	**33.6756**	**33.6756**	**1.0000e-003**	**0.0000**	**33.7007**

3.4 Phase 1 Utilities - 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	0.1722	1.3646	1.9084	5.0900e-003		0.0549	0.0549		0.0505	0.0505	0.0000	446.8129	446.8129	0.1445	0.0000	450.4256
Total	**0.1722**	**1.3646**	**1.9084**	**5.0900e-003**		**0.0549**	**0.0549**		**0.0505**	**0.0505**	**0.0000**	**446.8129**	**446.8129**	**0.1445**	**0.0000**	**450.4256**

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	2.0000e-004	0.0103	2.1600e-003	2.0000e-005	0.3147	1.0000e-005	0.3147	0.0315	1.0000e-005	0.0315	0.0000	2.1663	2.1663	2.5000e-004	0.0000	2.1724
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0387	0.0256	0.2672	8.9000e-004	0.0996	6.8000e-004	0.1003	0.0265	6.2000e-004	0.0271	0.0000	80.6139	80.6139	2.0900e-003	0.0000	80.6661
Total	**0.0389**	**0.0360**	**0.2693**	**9.1000e-004**	**0.4143**	**6.9000e-004**	**0.4150**	**0.0579**	**6.3000e-004**	**0.0586**	**0.0000**	**82.7802**	**82.7802**	**2.3400e-003**	**0.0000**	**82.8386**

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	0.0735	0.3808	2.7961	5.0900e-003		0.0143	0.0143		0.0138	0.0138	0.0000	446.8123	446.8123	0.1445	0.0000	450.4250

Total	**0.0735**	**0.3808**	**2.7961**	**5.0900e-003**		**0.0143**	**0.0143**		**0.0138**	**0.0138**	**0.0000**	**446.8123**	**446.8123**	**0.1445**	**0.0000**	**450.4250**

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	2.0000e-004	0.0103	2.1600e-003	2.0000e-005	0.0676	1.0000e-005	0.0676	6.7700e-003	1.0000e-005	6.7800e-003	0.0000	2.1663	2.1663	2.5000e-004	0.0000	2.1724
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0387	0.0256	0.2672	8.9000e-004	0.0772	6.8000e-004	0.0779	0.0210	6.2000e-004	0.0216	0.0000	80.6139	80.6139	2.0900e-003	0.0000	80.6661
Total	**0.0389**	**0.0360**	**0.2693**	**9.1000e-004**	**0.1448**	**6.9000e-004**	**0.1454**	**0.0277**	**6.3000e-004**	**0.0284**	**0.0000**	**82.7802**	**82.7802**	**2.3400e-003**	**0.0000**	**82.8386**

3.5 Phase 1 Surface Improvements - 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	0.0737	0.5699	0.5947	1.6700e-003		0.0243	0.0243		0.0224	0.0224	0.0000	146.7662	146.7662	0.0475	0.0000	147.9529
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0737**	**0.5699**	**0.5947**	**1.6700e-003**		**0.0243**	**0.0243**		**0.0224**	**0.0224**	**0.0000**	**146.7662**	**146.7662**	**0.0475**	**0.0000**	**147.9529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0515	0.0341	0.3549	1.1800e-003	0.1323	9.0000e-004	0.1332	0.0352	8.3000e-004	0.0360	0.0000	107.0958	107.0958	2.7700e-003	0.0000	107.1652
Total	**0.0515**	**0.0341**	**0.3549**	**1.1800e-003**	**0.1323**	**9.0000e-004**	**0.1332**	**0.0352**	**8.3000e-004**	**0.0360**	**0.0000**	**107.0958**	**107.0958**	**2.7700e-003**	**0.0000**	**107.1652**

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	0.0210	0.1022	0.8739	1.6700e-003		2.9200e-003	2.9200e-003		2.9000e-003	2.9000e-003	0.0000	146.7660	146.7660	0.0475	0.0000	147.9527
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0210**	**0.1022**	**0.8739**	**1.6700e-003**		**2.9200e-003**	**2.9200e-003**		**2.9000e-003**	**2.9000e-003**	**0.0000**	**146.7660**	**146.7660**	**0.0475**	**0.0000**	**147.9527**

Mitigated Construction Off-Site

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

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0515	0.0341	0.3549	1.1800e-003	0.1025	9.0000e-004	0.1034	0.0279	8.3000e-004	0.0287	0.0000	107.0958	107.0958	2.7700e-003	0.0000	107.1652
Total	**0.0515**	**0.0341**	**0.3549**	**1.1800e-003**	**0.1025**	**9.0000e-004**	**0.1034**	**0.0279**	**8.3000e-004**	**0.0287**	**0.0000**	**107.0958**	**107.0958**	**2.7700e-003**	**0.0000**	**107.1652**

3.5 Phase 1 Surface Improvements - 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	0.0715	0.5281	0.5908	1.6700e-003		0.0223	0.0223		0.0205	0.0205	0.0000	146.8120	146.8120	0.0475	0.0000	147.9990
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0715**	**0.5281**	**0.5908**	**1.6700e-003**		**0.0223**	**0.0223**		**0.0205**	**0.0205**	**0.0000**	**146.8120**	**146.8120**	**0.0475**	**0.0000**	**147.9990**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0489	0.0312	0.3315	1.1400e-003	0.1323	8.8000e-004	0.1332	0.0352	8.1000e-004	0.0360	0.0000	102.8796	102.8796	2.5500e-003	0.0000	102.9433
Total	**0.0489**	**0.0312**	**0.3315**	**1.1400e-003**	**0.1323**	**8.8000e-004**	**0.1332**	**0.0352**	**8.1000e-004**	**0.0360**	**0.0000**	**102.8796**	**102.8796**	**2.5500e-003**	**0.0000**	**102.9433**

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	0.0210	0.1020	0.8740	1.6700e-003		2.8900e-003	2.8900e-003		2.8800e-003	2.8800e-003	0.0000	146.8118	146.8118	0.0475	0.0000	147.9988
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0210**	**0.1020**	**0.8740**	**1.6700e-003**		**2.8900e-003**	**2.8900e-003**		**2.8800e-003**	**2.8800e-003**	**0.0000**	**146.8118**	**146.8118**	**0.0475**	**0.0000**	**147.9988**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0489	0.0312	0.3315	1.1400e-003	0.1025	8.8000e-004	0.1034	0.0279	8.1000e-004	0.0287	0.0000	102.8796	102.8796	2.5500e-003	0.0000	102.9433
Total	**0.0489**	**0.0312**	**0.3315**	**1.1400e-003**	**0.1025**	**8.8000e-004**	**0.1034**	**0.0279**	**8.1000e-004**	**0.0287**	**0.0000**	**102.8796**	**102.8796**	**2.5500e-003**	**0.0000**	**102.9433**

3.6 Phase 1 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0820	0.7034	0.8661	1.5300e-003		0.0334	0.0334		0.0313	0.0313	0.0000	132.9829	132.9829	0.0356	0.0000	133.8722

Total	**0.0820**	**0.7034**	**0.8661**	**1.5300e-003**		**0.0334**	**0.0334**		**0.0313**	**0.0313**	**0.0000**	**132.9829**	**132.9829**	**0.0356**	**0.0000**	**133.8722**

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	0.0260	0.8920	0.2765	3.0200e-003	0.0777	1.0700e-003	0.0787	0.0224	1.0200e-003	0.0234	0.0000	295.3607	295.3607	0.0201	0.0000	295.8628
Worker	0.1285	0.0851	0.8865	2.9600e-003	0.3305	2.2400e-003	0.3327	0.0878	2.0700e-003	0.0899	0.0000	267.4961	267.4961	6.9300e-003	0.0000	267.6694
Total	**0.1545**	**0.9771**	**1.1630**	**5.9800e-003**	**0.4082**	**3.3100e-003**	**0.4115**	**0.1102**	**3.0900e-003**	**0.1133**	**0.0000**	**562.8568**	**562.8568**	**0.0270**	**0.0000**	**563.5322**

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	0.0590	0.4891	0.9424	1.5300e-003		0.0231	0.0231		0.0219	0.0219	0.0000	132.9827	132.9827	0.0356	0.0000	133.8721
Total	**0.0590**	**0.4891**	**0.9424**	**1.5300e-003**		**0.0231**	**0.0231**		**0.0219**	**0.0219**	**0.0000**	**132.9827**	**132.9827**	**0.0356**	**0.0000**	**133.8721**

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	0.0260	0.8920	0.2765	3.0200e-003	0.0634	1.0700e-003	0.0645	0.0189	1.0200e-003	0.0199	0.0000	295.3607	295.3607	0.0201	0.0000	295.8628
Worker	0.1285	0.0851	0.8865	2.9600e-003	0.2561	2.2400e-003	0.2583	0.0696	2.0700e-003	0.0716	0.0000	267.4961	267.4961	6.9300e-003	0.0000	267.6694
Total	**0.1545**	**0.9771**	**1.1630**	**5.9800e-003**	**0.3195**	**3.3100e-003**	**0.3228**	**0.0885**	**3.0900e-003**	**0.0916**	**0.0000**	**562.8568**	**562.8568**	**0.0270**	**0.0000**	**563.5322**

3.6 Phase 1 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2703	2.2795	3.0174	5.3600e-003		0.1024	0.1024		0.0959	0.0959	0.0000	464.6319	464.6319	0.1239	0.0000	467.7285
Total	**0.2703**	**2.2795**	**3.0174**	**5.3600e-003**		**0.1024**	**0.1024**		**0.0959**	**0.0959**	**0.0000**	**464.6319**	**464.6319**	**0.1239**	**0.0000**	**467.7285**

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	0.0875	3.0722	0.9351	0.0105	0.2713	3.6400e-003	0.2749	0.0783	3.4700e-003	0.0818	0.0000	1,025.2355	1,025.2355	0.0693	0.0000	1,026.9679
Worker	0.4269	0.2726	2.8921	9.9200e-003	1.1545	7.6900e-003	1.1622	0.3068	7.0800e-003	0.3139	0.0000	897.6649	897.6649	0.0222	0.0000	898.2209
Total	**0.5144**	**3.3448**	**3.8272**	**0.0204**	**1.4258**	**0.0113**	**1.4371**	**0.3851**	**0.0106**	**0.3957**	**0.0000**	**1,922.9004**	**1,922.9004**	**0.0915**	**0.0000**	**1,925.1888**

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	0.1942	1.6027	3.2813	5.3600e-003		0.0711	0.0711		0.0674	0.0674	0.0000	464.6314	464.6314	0.1239	0.0000	467.7279
Total	**0.1942**	**1.6027**	**3.2813**	**5.3600e-003**		**0.0711**	**0.0711**		**0.0674**	**0.0674**	**0.0000**	**464.6314**	**464.6314**	**0.1239**	**0.0000**	**467.7279**

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	0.0875	3.0722	0.9351	0.0105	0.2214	3.6400e-003	0.2250	0.0661	3.4700e-003	0.0696	0.0000	1,025.2355	1,025.2355	0.0693	0.0000	1,026.9679
Worker	0.4269	0.2726	2.8921	9.9200e-003	0.8946	7.6900e-003	0.9023	0.2430	7.0800e-003	0.2501	0.0000	897.6649	897.6649	0.0222	0.0000	898.2209
Total	**0.5144**	**3.3448**	**3.8272**	**0.0204**	**1.1160**	**0.0113**	**1.1273**	**0.3091**	**0.0106**	**0.3196**	**0.0000**	**1,922.9004**	**1,922.9004**	**0.0915**	**0.0000**	**1,925.1888**

3.6 Phase 1 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2524	2.0822	2.9918	5.3400e-003		0.0887	0.0887		0.0830	0.0830	0.0000	462.8635	462.8635	0.1230	0.0000	465.9374
Total	**0.2524**	**2.0822**	**2.9918**	**5.3400e-003**		**0.0887**	**0.0887**		**0.0830**	**0.0830**	**0.0000**	**462.8635**	**462.8635**	**0.1230**	**0.0000**	**465.9374**

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	0.0846	3.0159	0.9127	0.0103	0.2703	3.5100e-003	0.2738	0.0780	3.3600e-003	0.0814	0.0000	1,015.1093	1,015.1093	0.0683	0.0000	1,016.8166
Worker	0.4061	0.2504	2.6891	9.4800e-003	1.1501	7.5400e-003	1.1577	0.3056	6.9400e-003	0.3126	0.0000	858.0879	858.0879	0.0205	0.0000	858.5991
Total	**0.4907**	**3.2663**	**3.6018**	**0.0198**	**1.4204**	**0.0111**	**1.4314**	**0.3836**	**0.0103**	**0.3939**	**0.0000**	**1,873.1972**	**1,873.1972**	**0.0887**	**0.0000**	**1,875.4157**

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	0.1822	1.4920	3.2592	5.3400e-003		0.0621	0.0621		0.0589	0.0589	0.0000	462.8629	462.8629	0.1230	0.0000	465.9369

Total	**0.1822**	**1.4920**	**3.2592**	**5.3400e-003**		**0.0621**	**0.0621**		**0.0589**	**0.0589**	**0.0000**	**462.8629**	**462.8629**	**0.1230**	**0.0000**	**465.9369**

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	0.0846	3.0159	0.9127	0.0103	0.2206	3.5100e-003	0.2241	0.0658	3.3600e-003	0.0692	0.0000	1,015.1093	1,015.1093	0.0683	0.0000	1,016.8166
Worker	0.4061	0.2504	2.6891	9.4800e-003	0.8912	7.5400e-003	0.8987	0.2421	6.9400e-003	0.2490	0.0000	858.0879	858.0879	0.0205	0.0000	858.5991
Total	**0.4907**	**3.2663**	**3.6018**	**0.0198**	**1.1117**	**0.0111**	**1.1228**	**0.3079**	**0.0103**	**0.3182**	**0.0000**	**1,873.1972**	**1,873.1972**	**0.0887**	**0.0000**	**1,875.4157**

3.6 Phase 1 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2524	2.0822	2.9918	5.3400e-003		0.0887	0.0887		0.0830	0.0830	0.0000	462.8635	462.8635	0.1230	0.0000	465.9374
Total	**0.2524**	**2.0822**	**2.9918**	**5.3400e-003**		**0.0887**	**0.0887**		**0.0830**	**0.0830**	**0.0000**	**462.8635**	**462.8635**	**0.1230**	**0.0000**	**465.9374**

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	0.0824	2.9727	0.8997	0.0103	0.2702	3.4100e-003	0.2737	0.0780	3.2600e-003	0.0813	0.0000	1,009.2985	1,009.2985	0.0676	0.0000	1,010.9882
Worker	0.3894	0.2329	2.5270	9.1400e-003	1.1501	7.3100e-003	1.1574	0.3056	6.7200e-003	0.3123	0.0000	826.6624	826.6624	0.0191	0.0000	827.1386
Total	**0.4718**	**3.2056**	**3.4266**	**0.0194**	**1.4203**	**0.0107**	**1.4311**	**0.3836**	**9.9800e-003**	**0.3936**	**0.0000**	**1,835.9609**	**1,835.9609**	**0.0866**	**0.0000**	**1,838.1268**

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	0.1822	1.4920	3.2592	5.3400e-003		0.0621	0.0621		0.0589	0.0589	0.0000	462.8629	462.8629	0.1230	0.0000	465.9369
Total	**0.1822**	**1.4920**	**3.2592**	**5.3400e-003**		**0.0621**	**0.0621**		**0.0589**	**0.0589**	**0.0000**	**462.8629**	**462.8629**	**0.1230**	**0.0000**	**465.9369**

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	0.0824	2.9727	0.8997	0.0103	0.2206	3.4100e-003	0.2240	0.0658	3.2600e-003	0.0691	0.0000	1,009.2985	1,009.2985	0.0676	0.0000	1,010.9882
Worker	0.3894	0.2329	2.5270	9.1400e-003	0.8912	7.3100e-003	0.8985	0.2421	6.7200e-003	0.2488	0.0000	826.6624	826.6624	0.0191	0.0000	827.1386
Total	**0.4718**	**3.2056**	**3.4266**	**0.0194**	**1.1117**	**0.0107**	**1.1225**	**0.3079**	**9.9800e-003**	**0.3179**	**0.0000**	**1,835.9609**	**1,835.9609**	**0.0866**	**0.0000**	**1,838.1268**

3.6 Phase 1 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0590	0.4867	0.6992	1.2500e-003		0.0207	0.0207		0.0194	0.0194	0.0000	108.1788	108.1788	0.0287	0.0000	108.8973
Total	**0.0590**	**0.4867**	**0.6992**	**1.2500e-003**		**0.0207**	**0.0207**		**0.0194**	**0.0194**	**0.0000**	**108.1788**	**108.1788**	**0.0287**	**0.0000**	**108.8973**

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	0.0188	0.6851	0.2077	2.3800e-003	0.0632	7.8000e-004	0.0639	0.0182	7.4000e-004	0.0190	0.0000	234.6446	234.6446	0.0157	0.0000	235.0360
Worker	0.0871	0.0508	0.5570	2.0600e-003	0.2688	1.6200e-003	0.2704	0.0714	1.4900e-003	0.0729	0.0000	186.7324	186.7324	4.1700e-003	0.0000	186.8366
Total	**0.1059**	**0.7359**	**0.7647**	**4.4400e-003**	**0.3320**	**2.4000e-003**	**0.3344**	**0.0897**	**2.2300e-003**	**0.0919**	**0.0000**	**421.3771**	**421.3771**	**0.0198**	**0.0000**	**421.8726**

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	0.0426	0.3487	0.7617	1.2500e-003		0.0145	0.0145		0.0138	0.0138	0.0000	108.1787	108.1787	0.0287	0.0000	108.8971
Total	**0.0426**	**0.3487**	**0.7617**	**1.2500e-003**		**0.0145**	**0.0145**		**0.0138**	**0.0138**	**0.0000**	**108.1787**	**108.1787**	**0.0287**	**0.0000**	**108.8971**

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	0.0188	0.6851	0.2077	2.3800e-003	0.0516	7.8000e-004	0.0523	0.0154	7.4000e-004	0.0161	0.0000	234.6446	234.6446	0.0157	0.0000	235.0360
Worker	0.0871	0.0508	0.5570	2.0600e-003	0.2083	1.6200e-003	0.2099	0.0566	1.4900e-003	0.0581	0.0000	186.7324	186.7324	4.1700e-003	0.0000	186.8366
Total	**0.1059**	**0.7359**	**0.7647**	**4.4400e-003**	**0.2598**	**2.4000e-003**	**0.2622**	**0.0720**	**2.2300e-003**	**0.0742**	**0.0000**	**421.3771**	**421.3771**	**0.0198**	**0.0000**	**421.8726**

3.7 Phase 2 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					0.1995	0.0000	0.1995	0.0535	0.0000	0.0535	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0306	0.2989	0.3285	5.2000e-004		0.0132	0.0132		0.0121	0.0121	0.0000	46.0385	46.0385	0.0149	0.0000	46.4108
Total	**0.0306**	**0.2989**	**0.3285**	**5.2000e-004**	**0.1995**	**0.0132**	**0.2127**	**0.0535**	**0.0121**	**0.0656**	**0.0000**	**46.0385**	**46.0385**	**0.0149**	**0.0000**	**46.4108**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.7700e-003	3.7000e-004	0.0000	0.0393	0.0000	0.0394	3.9300e-003	0.0000	3.9300e-003	0.0000	0.3731	0.3731	4.0000e-005	0.0000	0.3741
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	1.9000e-004	2.0100e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.1000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6235	0.6235	2.0000e-005	0.0000	0.6239
Total	**3.3000e-004**	**1.9600e-003**	**2.3800e-003**	**1.0000e-005**	**0.0401**	**1.0000e-005**	**0.0402**	**4.1400e-003**	**0.0000**	**4.1500e-003**	**0.0000**	**0.9966**	**0.9966**	**6.0000e-005**	**0.0000**	**0.9980**

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					0.0490	0.0000	0.0490	0.0131	0.0000	0.0131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9500e-003	0.0708	0.3067	5.2000e-004		2.9200e-003	2.9200e-003		2.7400e-003	2.7400e-003	0.0000	46.0385	46.0385	0.0149	0.0000	46.4107
Total	**9.9500e-003**	**0.0708**	**0.3067**	**5.2000e-004**	**0.0490**	**2.9200e-003**	**0.0519**	**0.0131**	**2.7400e-003**	**0.0159**	**0.0000**	**46.0385**	**46.0385**	**0.0149**	**0.0000**	**46.4107**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.7700e-003	3.7000e-004	0.0000	8.4500e-003	0.0000	8.4500e-003	8.5000e-004	0.0000	8.5000e-004	0.0000	0.3731	0.3731	4.0000e-005	0.0000	0.3741
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	1.9000e-004	2.0100e-003	1.0000e-005	6.2000e-004	1.0000e-005	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.6235	0.6235	2.0000e-005	0.0000	0.6239
Total	**3.3000e-004**	**1.9600e-003**	**2.3800e-003**	**1.0000e-005**	**9.0700e-003**	**1.0000e-005**	**9.0800e-003**	**1.0200e-003**	**0.0000**	**1.0200e-003**	**0.0000**	**0.9966**	**0.9966**	**6.0000e-005**	**0.0000**	**0.9980**

3.8 Phase 2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9964	0.0000	0.9964	0.4915	0.0000	0.4915	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.8778	8.8721	6.0641	0.0165		0.3424	0.3424		0.3151	0.3151	0.0000	1,451.9740	1,451.9740	0.4696	0.0000	1,463.7140
Total	**0.8778**	**8.8721**	**6.0641**	**0.0165**	**0.9964**	**0.3424**	**1.3388**	**0.4915**	**0.3151**	**0.8065**	**0.0000**	**1,451.9740**	**1,451.9740**	**0.4696**	**0.0000**	**1,463.7140**

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	2.8500e-003	0.1483	0.0313	3.1000e-004	11.4829	1.1000e-004	11.4830	1.1470	1.1000e-004	1.1471	0.0000	31.3094	31.3094	3.5200e-003	0.0000	31.3973

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.9600e-003	6.3600e-003	0.0675	2.3000e-004	0.0269	1.8000e-004	0.0271	7.1600e-003	1.7000e-004	7.3200e-003	0.0000	20.9376	20.9376	5.2000e-004	0.0000	20.9505
Total	**0.0128**	**0.1547**	**0.0987**	**5.4000e-004**	**11.5098**	**2.9000e-004**	**11.5101**	**1.1541**	**2.8000e-004**	**1.1544**	**0.0000**	**52.2469**	**52.2469**	**4.0400e-003**	**0.0000**	**52.3478**

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					0.2448	0.0000	0.2448	0.1208	0.0000	0.1208	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2038	0.8885	7.4371	0.0165		0.0274	0.0274		0.0274	0.0274	0.0000	1,451.9723	1,451.9723	0.4696	0.0000	1,463.7122
Total	**0.2038**	**0.8885**	**7.4371**	**0.0165**	**0.2448**	**0.0274**	**0.2722**	**0.1208**	**0.0274**	**0.1481**	**0.0000**	**1,451.9723**	**1,451.9723**	**0.4696**	**0.0000**	**1,463.7122**

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	2.8500e-003	0.1483	0.0313	3.1000e-004	2.4645	1.1000e-004	2.4646	0.2465	1.1000e-004	0.2466	0.0000	31.3094	31.3094	3.5200e-003	0.0000	31.3973
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.9600e-003	6.3600e-003	0.0675	2.3000e-004	0.0209	1.8000e-004	0.0211	5.6700e-003	1.7000e-004	5.8300e-003	0.0000	20.9376	20.9376	5.2000e-004	0.0000	20.9505
Total	**0.0128**	**0.1547**	**0.0987**	**5.4000e-004**	**2.4853**	**2.9000e-004**	**2.4856**	**0.2522**	**2.8000e-004**	**0.2524**	**0.0000**	**52.2469**	**52.2469**	**4.0400e-003**	**0.0000**	**52.3478**

3.8 Phase 2 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.2812	0.0000	2.2812	1.1977	0.0000	1.1977	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9609	18.5965	13.8210	0.0410		0.7197	0.7197		0.6621	0.6621	0.0000	3,601.2330	3,601.2330	1.1647	0.0000	3,630.3508
Total	**1.9609**	**18.5965**	**13.8210**	**0.0410**	**2.2812**	**0.7197**	**3.0009**	**1.1977**	**0.6621**	**1.8598**	**0.0000**	**3,601.2330**	**3,601.2330**	**1.1647**	**0.0000**	**3,630.3508**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.8900e-003	0.3617	0.0777	7.7000e-004	11.4845	2.6000e-004	11.4848	1.1476	2.5000e-004	1.1478	0.0000	76.8798	76.8798	8.5300e-003	0.0000	77.0931
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0236	0.0145	0.1560	5.5000e-004	0.0667	4.4000e-004	0.0672	0.0177	4.0000e-004	0.0181	0.0000	49.7911	49.7911	1.1900e-003	0.0000	49.8207
Total	**0.0305**	**0.3762**	**0.2338**	**1.3200e-003**	**11.5512**	**7.0000e-004**	**11.5519**	**1.1653**	**6.5000e-004**	**1.1659**	**0.0000**	**126.6709**	**126.6709**	**9.7200e-003**	**0.0000**	**126.9138**

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					0.5605	0.0000	0.5605	0.2943	0.0000	0.2943	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.5048	2.1975	18.4310	0.0410		0.0678	0.0678		0.0677	0.0677	0.0000	3,601.2287	3,601.2287	1.1647	0.0000	3,630.3465
Total	**0.5048**	**2.1975**	**18.4310**	**0.0410**	**0.5605**	**0.0678**	**0.6283**	**0.2943**	**0.0677**	**0.3620**	**0.0000**	**3,601.2287**	**3,601.2287**	**1.1647**	**0.0000**	**3,630.3465**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.8900e-003	0.3617	0.0777	7.7000e-004	2.4661	2.6000e-004	2.4663	0.2471	2.5000e-004	0.2473	0.0000	76.8798	76.8798	8.5300e-003	0.0000	77.0931
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0236	0.0145	0.1560	5.5000e-004	0.0517	4.4000e-004	0.0522	0.0141	4.0000e-004	0.0145	0.0000	49.7911	49.7911	1.1900e-003	0.0000	49.8207
Total	**0.0305**	**0.3762**	**0.2338**	**1.3200e-003**	**2.5178**	**7.0000e-004**	**2.5185**	**0.2611**	**6.5000e-004**	**0.2618**	**0.0000**	**126.6709**	**126.6709**	**9.7200e-003**	**0.0000**	**126.9138**

3.9 Phase 2 Utilities - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0893	0.6160	1.0800	2.9000e-003		0.0248	0.0248		0.0228	0.0228	0.0000	254.5457	254.5457	0.0823	0.0000	256.6039
Total	**0.0893**	**0.6160**	**1.0800**	**2.9000e-003**		**0.0248**	**0.0248**		**0.0228**	**0.0228**	**0.0000**	**254.5457**	**254.5457**	**0.0823**	**0.0000**	**256.6039**

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	8.0000e-005	4.0400e-003	8.7000e-004	1.0000e-005	0.2360	0.0000	0.2360	0.0236	0.0000	0.0236	0.0000	0.8594	0.8594	1.0000e-004	0.0000	0.8618
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0142	8.7700e-003	0.0942	3.3000e-004	0.0403	2.6000e-004	0.0405	0.0107	2.4000e-004	0.0109	0.0000	30.0469	30.0469	7.2000e-004	0.0000	30.0648
Total	**0.0143**	**0.0128**	**0.0950**	**3.4000e-004**	**0.2763**	**2.6000e-004**	**0.2766**	**0.0343**	**2.4000e-004**	**0.0345**	**0.0000**	**30.9063**	**30.9063**	**8.2000e-004**	**0.0000**	**30.9266**

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	0.0407	0.1998	1.5901	2.9000e-003		7.2300e-003	7.2300e-003		7.0000e-003	7.0000e-003	0.0000	254.5454	254.5454	0.0823	0.0000	256.6036
Total	**0.0407**	**0.1998**	**1.5901**	**2.9000e-003**		**7.2300e-003**	**7.2300e-003**		**7.0000e-003**	**7.0000e-003**	**0.0000**	**254.5454**	**254.5454**	**0.0823**	**0.0000**	**256.6036**

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	8.0000e-005	4.0400e-003	8.7000e-004	1.0000e-005	0.0507	0.0000	0.0507	5.0700e-003	0.0000	5.0700e-003	0.0000	0.8594	0.8594	1.0000e-004	0.0000	0.8618

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0142	8.7700e-003	0.0942	3.3000e-004	0.0312	2.6000e-004	0.0315	8.4800e-003	2.4000e-004	8.7200e-003	0.0000	30.0469	30.0469	7.2000e-004	0.0000	30.0648
Total	**0.0143**	**0.0128**	**0.0950**	**3.4000e-004**	**0.0819**	**2.6000e-004**	**0.0821**	**0.0136**	**2.4000e-004**	**0.0138**	**0.0000**	**30.9063**	**30.9063**	**8.2000e-004**	**0.0000**	**30.9266**

3.9 Phase 2 Utilities - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1411	0.9736	1.7070	4.5800e-003		0.0391	0.0391		0.0360	0.0360	0.0000	402.3465	402.3465	0.1301	0.0000	405.5997
Total	**0.1411**	**0.9736**	**1.7070**	**4.5800e-003**		**0.0391**	**0.0391**		**0.0360**	**0.0360**	**0.0000**	**402.3465**	**402.3465**	**0.1301**	**0.0000**	**405.5997**

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	1.2000e-004	6.2900e-003	1.3800e-003	1.0000e-005	0.2360	0.0000	0.2360	0.0236	0.0000	0.0236	0.0000	1.3465	1.3465	1.5000e-004	0.0000	1.3502
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0216	0.0129	0.1399	5.1000e-004	0.0637	4.0000e-004	0.0641	0.0169	3.7000e-004	0.0173	0.0000	45.7542	45.7542	1.0500e-003	0.0000	45.7806
Total	**0.0217**	**0.0192**	**0.1412**	**5.2000e-004**	**0.2997**	**4.0000e-004**	**0.3001**	**0.0405**	**3.7000e-004**	**0.0409**	**0.0000**	**47.1007**	**47.1007**	**1.2000e-003**	**0.0000**	**47.1308**

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	0.0643	0.3158	2.5134	4.5800e-003		0.0114	0.0114		0.0111	0.0111	0.0000	402.3460	402.3460	0.1301	0.0000	405.5992
Total	**0.0643**	**0.3158**	**2.5134**	**4.5800e-003**		**0.0114**	**0.0114**		**0.0111**	**0.0111**	**0.0000**	**402.3460**	**402.3460**	**0.1301**	**0.0000**	**405.5992**

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	1.2000e-004	6.2900e-003	1.3800e-003	1.0000e-005	0.0507	0.0000	0.0507	5.0800e-003	0.0000	5.0800e-003	0.0000	1.3465	1.3465	1.5000e-004	0.0000	1.3502
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0216	0.0129	0.1399	5.1000e-004	0.0493	4.0000e-004	0.0497	0.0134	3.7000e-004	0.0138	0.0000	45.7542	45.7542	1.0500e-003	0.0000	45.7806
Total	**0.0217**	**0.0192**	**0.1412**	**5.2000e-004**	**0.1000**	**4.0000e-004**	**0.1004**	**0.0185**	**3.7000e-004**	**0.0189**	**0.0000**	**47.1007**	**47.1007**	**1.2000e-003**	**0.0000**	**47.1308**

3.10 Phase 2 Surface Improvements - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0688	0.4687	0.5938	1.7000e-003		0.0196	0.0196		0.0180	0.0180	0.0000	149.4191	149.4191	0.0483	0.0000	150.6272

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0688**	**0.4687**	**0.5938**	**1.7000e-003**		**0.0196**	**0.0196**		**0.0180**	**0.0180**	**0.0000**	**149.4191**	**149.4191**	**0.0483**	**0.0000**	**150.6272**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0456	0.0273	0.2960	1.0700e-003	0.1347	8.6000e-004	0.1356	0.0358	7.9000e-004	0.0366	0.0000	96.8343	96.8343	2.2300e-003	0.0000	96.8901
Total	**0.0456**	**0.0273**	**0.2960**	**1.0700e-003**	**0.1347**	**8.6000e-004**	**0.1356**	**0.0358**	**7.9000e-004**	**0.0366**	**0.0000**	**96.8343**	**96.8343**	**2.2300e-003**	**0.0000**	**96.8901**

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	0.0213	0.1035	0.8898	1.7000e-003		2.9100e-003	2.9100e-003		2.9000e-003	2.9000e-003	0.0000	149.4189	149.4189	0.0483	0.0000	150.6270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0213**	**0.1035**	**0.8898**	**1.7000e-003**		**2.9100e-003**	**2.9100e-003**		**2.9000e-003**	**2.9000e-003**	**0.0000**	**149.4189**	**149.4189**	**0.0483**	**0.0000**	**150.6270**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0456	0.0273	0.2960	1.0700e-003	0.1044	8.6000e-004	0.1053	0.0284	7.9000e-004	0.0291	0.0000	96.8343	96.8343	2.2300e-003	0.0000	96.8901
Total	**0.0456**	**0.0273**	**0.2960**	**1.0700e-003**	**0.1044**	**8.6000e-004**	**0.1053**	**0.0284**	**7.9000e-004**	**0.0291**	**0.0000**	**96.8343**	**96.8343**	**2.2300e-003**	**0.0000**	**96.8901**

3.10 Phase 2 Surface Improvements - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0172	0.1172	0.1485	4.3000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	37.3548	37.3548	0.0121	0.0000	37.6568
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0172**	**0.1172**	**0.1485**	**4.3000e-004**		**4.8900e-003**	**4.8900e-003**		**4.5000e-003**	**4.5000e-003**	**0.0000**	**37.3548**	**37.3548**	**0.0121**	**0.0000**	**37.6568**

Unmitigated Construction Off-Site

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

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0109	6.3700e-003	0.0698	2.6000e-004	0.0337	2.0000e-004	0.0339	8.9500e-003	1.9000e-004	9.1400e-003	0.0000	23.3976	23.3976	5.2000e-004	0.0000	23.4107
Total	**0.0109**	**6.3700e-003**	**0.0698**	**2.6000e-004**	**0.0337**	**2.0000e-004**	**0.0339**	**8.9500e-003**	**1.9000e-004**	**9.1400e-003**	**0.0000**	**23.3976**	**23.3976**	**5.2000e-004**	**0.0000**	**23.4107**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.3200e-003	0.0259	0.2225	4.3000e-004		7.3000e-004	7.3000e-004		7.2000e-004	7.2000e-004	0.0000	37.3547	37.3547	0.0121	0.0000	37.6568
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.3200e-003**	**0.0259**	**0.2225**	**4.3000e-004**		**7.3000e-004**	**7.3000e-004**		**7.2000e-004**	**7.2000e-004**	**0.0000**	**37.3547**	**37.3547**	**0.0121**	**0.0000**	**37.6568**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0109	6.3700e-003	0.0698	2.6000e-004	0.0261	2.0000e-004	0.0263	7.0900e-003	1.9000e-004	7.2700e-003	0.0000	23.3976	23.3976	5.2000e-004	0.0000	23.4107
Total	**0.0109**	**6.3700e-003**	**0.0698**	**2.6000e-004**	**0.0261**	**2.0000e-004**	**0.0263**	**7.0900e-003**	**1.9000e-004**	**7.2700e-003**	**0.0000**	**23.3976**	**23.3976**	**5.2000e-004**	**0.0000**	**23.4107**

3.11 Phase 3 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1738	0.0000	0.1738	0.0467	0.0000	0.0467	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2396	0.2929	4.9000e-004		0.0100	0.0100		9.2000e-003	9.2000e-003	0.0000	43.0347	43.0347	0.0139	0.0000	43.3826
Total	**0.0254**	**0.2396**	**0.2929**	**4.9000e-004**	**0.1738**	**0.0100**	**0.1838**	**0.0467**	**9.2000e-003**	**0.0559**	**0.0000**	**43.0347**	**43.0347**	**0.0139**	**0.0000**	**43.3826**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.7100e-003	3.8000e-004	0.0000	0.0393	0.0000	0.0394	3.9300e-003	0.0000	3.9300e-003	0.0000	0.3664	0.3664	4.0000e-005	0.0000	0.3674
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.6000e-004	1.7600e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.1000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.5764	0.5764	1.0000e-005	0.0000	0.5767
Total	**3.0000e-004**	**1.8700e-003**	**2.1400e-003**	**1.0000e-005**	**0.0401**	**1.0000e-005**	**0.0402**	**4.1400e-003**	**0.0000**	**4.1500e-003**	**0.0000**	**0.9428**	**0.9428**	**5.0000e-005**	**0.0000**	**0.9441**

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					0.0427	0.0000	0.0427	0.0115	0.0000	0.0115	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	9.1400e-003	0.0652	0.2912	4.9000e-004		2.4400e-003	2.4400e-003		2.3000e-003	2.3000e-003	0.0000	43.0346	43.0346	0.0139	0.0000	43.3826
Total	**9.1400e-003**	**0.0652**	**0.2912**	**4.9000e-004**	**0.0427**	**2.4400e-003**	**0.0451**	**0.0115**	**2.3000e-003**	**0.0138**	**0.0000**	**43.0346**	**43.0346**	**0.0139**	**0.0000**	**43.3826**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.7100e-003	3.8000e-004	0.0000	8.4500e-003	0.0000	8.4500e-003	8.5000e-004	0.0000	8.5000e-004	0.0000	0.3664	0.3664	4.0000e-005	0.0000	0.3674
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.6000e-004	1.7600e-003	1.0000e-005	6.2000e-004	1.0000e-005	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5764	0.5764	1.0000e-005	0.0000	0.5767
Total	**3.0000e-004**	**1.8700e-003**	**2.1400e-003**	**1.0000e-005**	**9.0700e-003**	**1.0000e-005**	**9.0800e-003**	**1.0200e-003**	**0.0000**	**1.0200e-003**	**0.0000**	**0.9428**	**0.9428**	**5.0000e-005**	**0.0000**	**0.9441**

3.12 Phase 3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4725	0.0000	0.4725	0.2109	0.0000	0.2109	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4538	4.2872	3.2102	9.8400e-003		0.1651	0.1651		0.1519	0.1519	0.0000	864.0402	864.0402	0.2795	0.0000	871.0264
Total	**0.4538**	**4.2872**	**3.2102**	**9.8400e-003**	**0.4725**	**0.1651**	**0.6377**	**0.2109**	**0.1519**	**0.3628**	**0.0000**	**864.0402**	**864.0402**	**0.2795**	**0.0000**	**871.0264**

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	4.7800e-003	0.2524	0.0555	5.4000e-004	17.0668	1.7000e-004	17.0670	1.7048	1.6000e-004	1.7049	0.0000	53.9830	53.9830	5.9200e-003	0.0000	54.1309
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0162	9.6600e-003	0.1048	3.8000e-004	0.0477	3.0000e-004	0.0480	0.0127	2.8000e-004	0.0130	0.0000	34.2926	34.2926	7.9000e-004	0.0000	34.3124
Total	**0.0209**	**0.2620**	**0.1603**	**9.2000e-004**	**17.1145**	**4.7000e-004**	**17.1150**	**1.7175**	**4.4000e-004**	**1.7179**	**0.0000**	**88.2756**	**88.2756**	**6.7100e-003**	**0.0000**	**88.4433**

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					0.1161	0.0000	0.1161	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1212	0.5281	4.4233	9.8400e-003		0.0163	0.0163		0.0163	0.0163	0.0000	864.0392	864.0392	0.2795	0.0000	871.0254
Total	**0.1212**	**0.5281**	**4.4233**	**9.8400e-003**	**0.1161**	**0.0163**	**0.1324**	**0.0518**	**0.0163**	**0.0681**	**0.0000**	**864.0392**	**864.0392**	**0.2795**	**0.0000**	**871.0254**

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	4.7800e-003	0.2524	0.0555	5.4000e-004	3.6631	1.7000e-004	3.6633	0.3665	1.6000e-004	0.3666	0.0000	53.9830	53.9830	5.9200e-003	0.0000	54.1309

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0162	9.6600e-003	0.1048	3.8000e-004	0.0370	3.0000e-004	0.0373	0.0100	2.8000e-004	0.0103	0.0000	34.2926	34.2926	7.9000e-004	0.0000	34.3124
Total	**0.0209**	**0.2620**	**0.1603**	**9.2000e-004**	**3.7001**	**4.7000e-004**	**3.7006**	**0.3765**	**4.4000e-004**	**0.3769**	**0.0000**	**88.2756**	**88.2756**	**6.7100e-003**	**0.0000**	**88.4433**

3.12 Phase 3 Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6902	0.0000	0.6902	0.3305	0.0000	0.3305	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7267	6.8648	5.1403	0.0158		0.2644	0.2644		0.2433	0.2433	0.0000	1,383.5245	1,383.5245	0.4475	0.0000	1,394.7110
Total	**0.7267**	**6.8648**	**5.1403**	**0.0158**	**0.6902**	**0.2644**	**0.9546**	**0.3305**	**0.2433**	**0.5738**	**0.0000**	**1,383.5245**	**1,383.5245**	**0.4475**	**0.0000**	**1,394.7110**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.5300e-003	0.3986	0.0893	8.5000e-004	17.0679	2.6000e-004	17.0682	1.7052	2.5000e-004	1.7055	0.0000	85.7791	85.7791	9.3000e-003	0.0000	86.0115
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0248	0.0144	0.1583	5.9000e-004	0.0764	4.6000e-004	0.0769	0.0203	4.2000e-004	0.0207	0.0000	53.0708	53.0708	1.1800e-003	0.0000	53.1004
Total	**0.0323**	**0.4131**	**0.2476**	**1.4400e-003**	**17.1443**	**7.2000e-004**	**17.1451**	**1.7255**	**6.7000e-004**	**1.7262**	**0.0000**	**138.8499**	**138.8499**	**0.0105**	**0.0000**	**139.1119**

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					0.1696	0.0000	0.1696	0.0812	0.0000	0.0812	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1941	0.8456	7.0827	0.0158		0.0261	0.0261		0.0261	0.0261	0.0000	1,383.5229	1,383.5229	0.4475	0.0000	1,394.7093
Total	**0.1941**	**0.8456**	**7.0827**	**0.0158**	**0.1696**	**0.0261**	**0.1957**	**0.0812**	**0.0261**	**0.1073**	**0.0000**	**1,383.5229**	**1,383.5229**	**0.4475**	**0.0000**	**1,394.7093**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.5300e-003	0.3986	0.0893	8.5000e-004	3.6643	2.6000e-004	3.6645	0.3669	2.5000e-004	0.3671	0.0000	85.7791	85.7791	9.3000e-003	0.0000	86.0115
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0248	0.0144	0.1583	5.9000e-004	0.0592	4.6000e-004	0.0597	0.0161	4.2000e-004	0.0165	0.0000	53.0708	53.0708	1.1800e-003	0.0000	53.1004
Total	**0.0323**	**0.4131**	**0.2476**	**1.4400e-003**	**3.7235**	**7.2000e-004**	**3.7242**	**0.3830**	**6.7000e-004**	**0.3836**	**0.0000**	**138.8499**	**138.8499**	**0.0105**	**0.0000**	**139.1119**

3.12 Phase 3 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2349	0.0000	0.2349	0.0803	0.0000	0.0803	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.1559	1.4729	1.1029	3.3800e-003		0.0567	0.0567		0.0522	0.0522	0.0000	296.8482	296.8482	0.0960	0.0000	299.2483
Total	**0.1559**	**1.4729**	**1.1029**	**3.3800e-003**	**0.2349**	**0.0567**	**0.2917**	**0.0803**	**0.0522**	**0.1325**	**0.0000**	**296.8482**	**296.8482**	**0.0960**	**0.0000**	**299.2483**

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	1.5900e-003	0.0845	0.0194	1.8000e-004	17.0655	5.0000e-005	17.0656	1.7043	5.0000e-005	1.7044	0.0000	18.2790	18.2790	1.9600e-003	0.0000	18.3280
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	5.0600e-003	2.9000e-003	0.0322	1.2000e-004	0.0164	9.0000e-005	0.0165	4.3600e-003	8.0000e-005	4.4400e-003	0.0000	11.0405	11.0405	2.4000e-004	0.0000	11.0465
Total	**6.6500e-003**	**0.0874**	**0.0516**	**3.0000e-004**	**17.0819**	**1.4000e-004**	**17.0820**	**1.7087**	**1.3000e-004**	**1.7088**	**0.0000**	**29.3195**	**29.3195**	**2.2000e-003**	**0.0000**	**29.3745**

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					0.0577	0.0000	0.0577	0.0197	0.0000	0.0197	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0417	0.1814	1.5197	3.3800e-003		5.6000e-003	5.6000e-003		5.5900e-003	5.5900e-003	0.0000	296.8478	296.8478	0.0960	0.0000	299.2480
Total	**0.0417**	**0.1814**	**1.5197**	**3.3800e-003**	**0.0577**	**5.6000e-003**	**0.0633**	**0.0197**	**5.5900e-003**	**0.0253**	**0.0000**	**296.8478**	**296.8478**	**0.0960**	**0.0000**	**299.2480**

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	1.5900e-003	0.0845	0.0194	1.8000e-004	3.6618	5.0000e-005	3.6619	0.3660	5.0000e-005	0.3660	0.0000	18.2790	18.2790	1.9600e-003	0.0000	18.3280
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	5.0600e-003	2.9000e-003	0.0322	1.2000e-004	0.0127	9.0000e-005	0.0128	3.4500e-003	8.0000e-005	3.5300e-003	0.0000	11.0405	11.0405	2.4000e-004	0.0000	11.0465
Total	**6.6500e-003**	**0.0874**	**0.0516**	**3.0000e-004**	**3.6745**	**1.4000e-004**	**3.6747**	**0.3694**	**1.3000e-004**	**0.3696**	**0.0000**	**29.3195**	**29.3195**	**2.2000e-003**	**0.0000**	**29.3745**

3.13 Phase 2 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0620	0.5209	0.7174	1.3100e-003		0.0220	0.0220		0.0206	0.0206	0.0000	112.9387	112.9387	0.0295	0.0000	113.6752
Total	**0.0620**	**0.5209**	**0.7174**	**1.3100e-003**		**0.0220**	**0.0220**		**0.0206**	**0.0206**	**0.0000**	**112.9387**	**112.9387**	**0.0295**	**0.0000**	**113.6752**

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	0.0115	0.4156	0.1258	1.4300e-003	0.0378	4.8000e-004	0.0383	0.0109	4.6000e-004	0.0114	0.0000	141.1099	141.1099	9.4500e-003	0.0000	141.3462
Worker	0.0551	0.0329	0.3574	1.2900e-003	0.1627	1.0300e-003	0.1637	0.0432	9.5000e-004	0.0442	0.0000	116.9274	116.9274	2.6900e-003	0.0000	116.9948
Total	**0.0666**	**0.4486**	**0.4832**	**2.7200e-003**	**0.2005**	**1.5100e-003**	**0.2020**	**0.0541**	**1.4100e-003**	**0.0555**	**0.0000**	**258.0374**	**258.0374**	**0.0121**	**0.0000**	**258.3409**

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	0.0468	0.3887	0.7798	1.3100e-003		0.0162	0.0162		0.0154	0.0154	0.0000	112.9386	112.9386	0.0295	0.0000	113.6750
Total	**0.0468**	**0.3887**	**0.7798**	**1.3100e-003**		**0.0162**	**0.0162**		**0.0154**	**0.0154**	**0.0000**	**112.9386**	**112.9386**	**0.0295**	**0.0000**	**113.6750**

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	0.0115	0.4156	0.1258	1.4300e-003	0.0308	4.8000e-004	0.0313	9.2000e-003	4.6000e-004	9.6600e-003	0.0000	141.1099	141.1099	9.4500e-003	0.0000	141.3462
Worker	0.0551	0.0329	0.3574	1.2900e-003	0.1261	1.0300e-003	0.1271	0.0342	9.5000e-004	0.0352	0.0000	116.9274	116.9274	2.6900e-003	0.0000	116.9948
Total	**0.0666**	**0.4486**	**0.4832**	**2.7200e-003**	**0.1569**	**1.5100e-003**	**0.1584**	**0.0434**	**1.4100e-003**	**0.0449**	**0.0000**	**258.0374**	**258.0374**	**0.0121**	**0.0000**	**258.3409**

3.13 Phase 2 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2345	1.9705	2.7135	4.9400e-003		0.0833	0.0833		0.0780	0.0780	0.0000	427.2030	427.2030	0.1114	0.0000	429.9887
Total	**0.2345**	**1.9705**	**2.7135**	**4.9400e-003**		**0.0833**	**0.0833**		**0.0780**	**0.0780**	**0.0000**	**427.2030**	**427.2030**	**0.1114**	**0.0000**	**429.9887**

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	0.0426	1.5502	0.4699	5.3900e-003	0.1429	1.7600e-003	0.1447	0.0413	1.6800e-003	0.0429	0.0000	530.9464	530.9464	0.0354	0.0000	531.8319
Worker	0.1994	0.1163	1.2752	4.7200e-003	0.6153	3.7000e-003	0.6190	0.1635	3.4000e-003	0.1669	0.0000	427.4744	427.4744	9.5400e-003	0.0000	427.7129
Total	**0.2420**	**1.6665**	**1.7451**	**0.0101**	**0.7583**	**5.4600e-003**	**0.7637**	**0.2048**	**5.0800e-003**	**0.2099**	**0.0000**	**958.4207**	**958.4207**	**0.0450**	**0.0000**	**959.5448**

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	0.1772	1.4702	2.9498	4.9400e-003		0.0614	0.0614		0.0582	0.0582	0.0000	427.2025	427.2025	0.1114	0.0000	429.9882

Total	**0.1772**	**1.4702**	**2.9498**	**4.9400e-003**		**0.0614**	**0.0614**		**0.0582**	**0.0582**	**0.0000**	**427.2025**	**427.2025**	**0.1114**	**0.0000**	**429.9882**

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	0.0426	1.5502	0.4699	5.3900e-003	0.1166	1.7600e-003	0.1184	0.0348	1.6800e-003	0.0365	0.0000	530.9464	530.9464	0.0354	0.0000	531.8319
Worker	0.1994	0.1163	1.2752	4.7200e-003	0.4768	3.7000e-003	0.4805	0.1295	3.4000e-003	0.1329	0.0000	427.4744	427.4744	9.5400e-003	0.0000	427.7129
Total	**0.2420**	**1.6665**	**1.7451**	**0.0101**	**0.5935**	**5.4600e-003**	**0.5989**	**0.1643**	**5.0800e-003**	**0.1694**	**0.0000**	**958.4207**	**958.4207**	**0.0450**	**0.0000**	**959.5448**

3.13 Phase 2 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2336	1.9630	2.7031	4.9200e-003		0.0830	0.0830		0.0777	0.0777	0.0000	425.5662	425.5662	0.1110	0.0000	428.3412
Total	**0.2336**	**1.9630**	**2.7031**	**4.9200e-003**		**0.0830**	**0.0830**		**0.0777**	**0.0777**	**0.0000**	**425.5662**	**425.5662**	**0.1110**	**0.0000**	**428.3412**

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	0.0417	1.5261	0.4651	5.3400e-003	0.1424	1.7200e-003	0.1441	0.0411	1.6400e-003	0.0428	0.0000	526.5660	526.5660	0.0350	0.0000	527.4408
Worker	0.1892	0.1086	1.2037	4.5600e-003	0.6130	3.4100e-003	0.6164	0.1629	3.1400e-003	0.1660	0.0000	412.8855	412.8855	8.9600e-003	0.0000	413.1094
Total	**0.2309**	**1.6347**	**1.6688**	**9.9000e-003**	**0.7554**	**5.1300e-003**	**0.7605**	**0.2040**	**4.7800e-003**	**0.2088**	**0.0000**	**939.4515**	**939.4515**	**0.0440**	**0.0000**	**940.5502**

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	0.1765	1.4646	2.9385	4.9200e-003		0.0612	0.0612		0.0580	0.0580	0.0000	425.5657	425.5657	0.1110	0.0000	428.3407
Total	**0.1765**	**1.4646**	**2.9385**	**4.9200e-003**		**0.0612**	**0.0612**		**0.0580**	**0.0580**	**0.0000**	**425.5657**	**425.5657**	**0.1110**	**0.0000**	**428.3407**

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	0.0417	1.5261	0.4651	5.3400e-003	0.1162	1.7200e-003	0.1179	0.0347	1.6400e-003	0.0363	0.0000	526.5660	526.5660	0.0350	0.0000	527.4408
Worker	0.1892	0.1086	1.2037	4.5600e-003	0.4750	3.4100e-003	0.4784	0.1290	3.1400e-003	0.1322	0.0000	412.8855	412.8855	8.9600e-003	0.0000	413.1094
Total	**0.2309**	**1.6347**	**1.6688**	**9.9000e-003**	**0.5912**	**5.1300e-003**	**0.5963**	**0.1637**	**4.7800e-003**	**0.1685**	**0.0000**	**939.4515**	**939.4515**	**0.0440**	**0.0000**	**940.5502**

3.13 Phase 2 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1159	0.9739	1.3412	2.4400e-003		0.0412	0.0412		0.0386	0.0386	0.0000	211.1463	211.1463	0.0551	0.0000	212.5231
Total	**0.1159**	**0.9739**	**1.3412**	**2.4400e-003**		**0.0412**	**0.0412**		**0.0386**	**0.0386**	**0.0000**	**211.1463**	**211.1463**	**0.0551**	**0.0000**	**212.5231**

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	0.0203	0.7479	0.2291	2.6400e-003	0.0706	8.3000e-004	0.0715	0.0204	7.9000e-004	0.0212	0.0000	260.1177	260.1177	0.0173	0.0000	260.5491
Worker	0.0888	0.0505	0.5658	2.2000e-003	0.3041	1.5700e-003	0.3057	0.0808	1.4500e-003	0.0823	0.0000	199.2056	199.2056	4.1900e-003	0.0000	199.3104
Total	**0.1091**	**0.7985**	**0.7949**	**4.8400e-003**	**0.3748**	**2.4000e-003**	**0.3772**	**0.1012**	**2.2400e-003**	**0.1035**	**0.0000**	**459.3233**	**459.3233**	**0.0215**	**0.0000**	**459.8595**

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	0.0876	0.7267	1.4579	2.4400e-003		0.0304	0.0304		0.0288	0.0288	0.0000	211.1461	211.1461	0.0551	0.0000	212.5229
Total	**0.0876**	**0.7267**	**1.4579**	**2.4400e-003**		**0.0304**	**0.0304**		**0.0288**	**0.0288**	**0.0000**	**211.1461**	**211.1461**	**0.0551**	**0.0000**	**212.5229**

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	0.0203	0.7479	0.2291	2.6400e-003	0.0577	8.3000e-004	0.0585	0.0172	7.9000e-004	0.0180	0.0000	260.1177	260.1177	0.0173	0.0000	260.5491
Worker	0.0888	0.0505	0.5658	2.2000e-003	0.2357	1.5700e-003	0.2372	0.0640	1.4500e-003	0.0655	0.0000	199.2056	199.2056	4.1900e-003	0.0000	199.3104
Total	**0.1091**	**0.7985**	**0.7949**	**4.8400e-003**	**0.2933**	**2.4000e-003**	**0.2957**	**0.0812**	**2.2400e-003**	**0.0835**	**0.0000**	**459.3233**	**459.3233**	**0.0215**	**0.0000**	**459.8595**

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	21.8199	0.0000	21.8199	5.3558	0.0000	5.3558	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	21.8199	0.0000	21.8199	5.3558	0.0000	5.3558	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
Apartments Low Rise	5,252.23	5,706.52	4837.79	15,012,965	15,012,965
Apartments Low Rise	2,866.65	3,114.60	2640.45	8,194,027	8,194,027
City Park	59.35	714.35	525.64	468,666	468,666
City Park	54.62	657.48	483.79	431,352	431,352
City Park	23.44	282.10	207.58	185,078	185,078
Elementary School	1,290.00	0.00	0.00	2,031,694	2,031,694
Regional Shopping Center	2,562.00	2,998.20	1514.40	4,338,828	4,338,828
Retirement Community	1,068.00	903.35	867.75	2,900,621	2,900,621
Single Family Housing	12,109.44	12,605.52	10964.64	34,311,512	34,311,512
User Defined Industrial	0.00	0.00	0.00		
Total	25,285.72	26,982.12	22,042.03	67,874,743	67,874,743

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Retirement Community	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
User Defined Industrial	9.50	7.30	7.30	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
Apartments Low Rise	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
City Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Elementary School	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Regional Shopping Center	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Retirement Community	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Single Family Housing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,108.6032	6,108.6032	0.2459	0.0509	6,129.9094
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,108.6032	6,108.6032	0.2459	0.0509	6,129.9094
NaturalGas Mitigated	0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	2,625.6083	2,625.6083	0.0503	0.0481	2,641.2110
NaturalGas Unmitigated	0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	2,625.6083	2,625.6083	0.0503	0.0481	2,641.2110

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 Low Rise	4.88309e+006	0.0263	0.2250	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	260.5802	260.5802	4.9900e-003	4.7800e-003	262.1287
Apartments Low Rise	8.94672e+006	0.0482	0.4123	0.1754	2.6300e-003		0.0333	0.0333		0.0333	0.0333	0.0000	477.4308	477.4308	9.1500e-003	8.7500e-003	480.2679
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
Elementary School	494932	2.6700e-003	0.0243	0.0204	1.5000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	26.4115	26.4115	5.1000e-004	4.8000e-004	26.5684
Regional Shopping Center	133800	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1401	7.1401	1.4000e-004	1.3000e-004	7.1825
Retirement Community	4.99534e+006	0.0269	0.2302	0.0980	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	266.5705	266.5705	5.1100e-003	4.8900e-003	268.1546
Single Family Housing	2.97482e+007	0.1604	1.3708	0.5833	8.7500e-003		0.1108	0.1108		0.1108	0.1108	0.0000	1,587.4752	1,587.4752	0.0304	0.0291	1,596.9088
User Defined Industrial	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		**0.2653**	**2.2690**	**0.9783**	**0.0145**		**0.1833**	**0.1833**		**0.1833**	**0.1833**	**0.0000**	**2,625.6083**	**2,625.6083**	**0.0503**	**0.0481**	**2,641.2110**

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 Low Rise	4.88309e+006	0.0263	0.2250	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	260.5802	260.5802	4.9900e-003	4.7800e-003	262.1287
Apartments Low Rise	8.94672e+006	0.0482	0.4123	0.1754	2.6300e-003		0.0333	0.0333		0.0333	0.0333	0.0000	477.4308	477.4308	9.1500e-003	8.7500e-003	480.2679
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
Elementary School	494932	2.6700e-003	0.0243	0.0204	1.5000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	26.4115	26.4115	5.1000e-004	4.8000e-004	26.5684
Regional Shopping Center	133800	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1401	7.1401	1.4000e-004	1.3000e-004	7.1825
Retirement Community	4.99534e+006	0.0269	0.2302	0.0980	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	266.5705	266.5705	5.1100e-003	4.8900e-003	268.1546

Single Family Housing	2.97482e+007	0.1604	1.3708	0.5833	8.7500e-003		0.1108	0.1108		0.1108	0.1108	0.0000	1,587.4752	1,587.4752	0.0304	0.0291	1,596.9088
User Defined Industrial	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		**0.2653**	**2.2690**	**0.9783**	**0.0145**		**0.1833**	**0.1833**		**0.1833**	**0.1833**	**0.0000**	**2,625.6083**	**2,625.6083**	**0.0503**	**0.0481**	**2,641.2110**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.84613e+006	603.3319	0.0243	5.0200e-003	605.4363
Apartments Low Rise	3.38245e+006	1,105.4150	0.0445	9.2100e-003	1,109.2706
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	438082	143.1689	5.7600e-003	1.1900e-003	143.6683
Regional Shopping Center	753600	246.2831	9.9100e-003	2.0500e-003	247.1421
Retirement Community	1.97345e+006	644.9409	0.0260	5.3700e-003	647.1904
Single Family Housing	1.0298e+007	3,365.4634	0.1355	0.0280	3,377.2018
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**6,108.6032**	**0.2459**	**0.0509**	**6,129.9094**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			

Apartments Low Rise	1.84613e+006	603.3319	0.0243	5.0200e-003	605.4363
Apartments Low Rise	3.38245e+006	1,105.4150	0.0445	9.2100e-003	1,109.2706
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	438082	143.1689	5.7600e-003	1.1900e-003	143.6683
Regional Shopping Center	753600	246.2831	9.9100e-003	2.0500e-003	247.1421
Retirement Community	1.97345e+006	644.9409	0.0260	5.3700e-003	647.1904
Single Family Housing	1.0298e+007	3,365.4634	0.1355	0.0280	3,377.2018
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**6,108.6032**	**0.2459**	**0.0509**	**6,129.9094**

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	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.7962	1,847.0282	6,165.8244	4.0196	0.3397	6,367.5475
Unmitigated	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.7962	1,847.0282	6,165.8244	4.0196	0.3397	6,367.5475

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	16.1211					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	262.3418	5.1232	323.8325	0.5867		45.4044	45.4044		45.4044	45.4044	4,318.7962	1,811.2401	6,130.0363	3.9855	0.3397	6,330.9069
Landscaping	0.6534	0.2518	21.8301	1.1600e-003		0.1215	0.1215		0.1215	0.1215	0.0000	35.7881	35.7881	0.0341	0.0000	36.6406
Total	**279.1163**	**5.3751**	**345.6626**	**0.5879**		**45.5259**	**45.5259**		**45.5259**	**45.5259**	**4,318.7962**	**1,847.0282**	**6,165.8244**	**4.0196**	**0.3397**	**6,367.5475**

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	16.1211					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	262.3418	5.1232	323.8325	0.5867		45.4044	45.4044		45.4044	45.4044	4,318.7962	1,811.2401	6,130.0363	3.9855	0.3397	6,330.9069
Landscaping	0.6534	0.2518	21.8301	1.1600e-003		0.1215	0.1215		0.1215	0.1215	0.0000	35.7881	35.7881	0.0341	0.0000	36.6406
Total	**279.1163**	**5.3751**	**345.6626**	**0.5879**		**45.5259**	**45.5259**		**45.5259**	**45.5259**	**4,318.7962**	**1,847.0282**	**6,165.8244**	**4.0196**	**0.3397**	**6,367.5475**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,696.8285	6.5504	0.1667	1,910.2724
Unmitigated	1,696.8285	6.5504	0.1667	1,910.2724

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	80.2698 / 50.6048	550.7824	2.6367	0.0661	636.4088
City Park	0 / 86.6207	314.5064	0.0127	2.6200e-003	315.6033
Elementary School	2.42424 / 6.23376	33.7190	0.0803	2.1400e-003	36.3646
Regional Shopping Center	4.44435 / 2.72396	30.2127	0.1460	3.6600e-003	34.9526
Retirement Community	28.9935 / 18.2785	198.9433	0.9524	0.0239	229.8717
Single Family Housing	82.8759 / 52.2479	568.6649	2.7223	0.0683	657.0714
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**1,696.8285**	**6.5504**	**0.1667**	**1,910.2724**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e

Land Use	Mgal	MT/yr			
Apartments Low Rise	80.2698 / 50.6048	550.7824	2.6367	0.0661	636.4088
City Park	0 / 86.6207	314.5064	0.0127	2.6200e-003	315.6033
Elementary School	2.42424 / 6.23376	33.7190	0.0803	2.1400e-003	36.3646
Regional Shopping Center	4.44435 / 2.72396	30.2127	0.1460	3.6600e-003	34.9526
Retirement Community	28.9935 / 18.2785	198.9433	0.9524	0.0239	229.8717
Single Family Housing	82.8759 / 52.2479	568.6649	2.7223	0.0683	657.0714
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**1,696.8285**	**6.5504**	**0.1667**	**1,910.2724**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	510.4715	30.1680	0.0000	1,264.6716
Unmitigated	510.4715	30.1680	0.0000	1,264.6716

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	566.72	115.0390	6.7986	0.0000	285.0044
City Park	6.25	1.2687	0.0750	0.0000	3.1431
Elementary School	182.5	37.0459	2.1894	0.0000	91.7795
Regional Shopping Center	63	12.7884	0.7558	0.0000	31.6828
Retirement Community	204.7	41.5523	2.4557	0.0000	102.9439
Single Family Housing	1491.58	302.7773	17.8936	0.0000	750.1179
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**510.4715**	**30.1680**	**0.0000**	**1,264.6716**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	566.72	115.0390	6.7986	0.0000	285.0044
City Park	6.25	1.2687	0.0750	0.0000	3.1431
Elementary School	182.5	37.0459	2.1894	0.0000	91.7795
Regional Shopping Center	63	12.7884	0.7558	0.0000	31.6828
Retirement Community	204.7	41.5523	2.4557	0.0000	102.9439
Single Family Housing	1491.58	302.7773	17.8936	0.0000	750.1179

User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**510.4715**	**30.1680**	**0.0000**	**1,264.6716**

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

Fanita Ranch Construction Phase 1-2

San Diego County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	1,000.00	Student	19.20	83,603.37	0
User Defined Industrial	1.00	User Defined Unit	69.60	0.00	0
City Park	31.40	Acre	31.40	1,367,784.00	0
City Park	28.90	Acre	28.90	1,258,884.00	0
City Park	12.40	Acre	12.40	540,144.00	0
Apartments Low Rise	797.00	Dwelling Unit	63.90	797,000.00	2279
Apartments Low Rise	435.00	Dwelling Unit	27.19	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,272.00	Dwelling Unit	248.00	2,289,600.00	3638
Regional Shopping Center	60.00	1000sqft	9.31	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Value changed to reflect the Fanita Ranch Specific Plan

Construction Phase - Construction phasing provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Trips and VMT - assume 1 hauling trip per day, 10 miles per trip (cut and fill balanced onsite)

On-road Fugitive Dust - assume 50% onsite roadways for hauling trips are paved

Grading - grading acreage provided by developer

Construction Off-road Equipment Mitigation - fugitive dust control

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	250	0
tblAreaCoating	Area_Nonresidential_Exterior	76802	0
tblAreaCoating	Area_Nonresidential_Interior	230405	0
tblAreaCoating	Area_Residential_Exterior	2677455	0
tblAreaCoating	Area_Residential_Interior	8032365	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	44.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	33.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	126.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	21.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	32.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	25.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	9,300.00	720.00
tblConstructionPhase	NumDays	9,300.00	920.00
tblConstructionPhase	NumDays	930.00	480.00
tblConstructionPhase	NumDays	930.00	360.00
tblConstructionPhase	NumDays	930.00	320.00
tblConstructionPhase	NumDays	660.00	440.00
tblConstructionPhase	NumDays	660.00	280.00
tblConstructionPhase	NumDays	360.00	40.00
tblConstructionPhase	NumDays	360.00	40.00

tblConstructionPhase	NumDays	360.00	40.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00

tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	5.2820e-003	0.00
tblFleetMix	LHD2	5.2820e-003	0.00
tblFleetMix	LHD2	5.2820e-003	0.00
tblFleetMix	LHD2	5.2820e-003	0.00
tblFleetMix	LHD2	5.2820e-003	0.00
tblFleetMix	LHD2	5.2820e-003	0.00
tblFleetMix	LHD2	5.2820e-003	0.00
tblFleetMix	MCY	5.5480e-003	0.00
tblFleetMix	MCY	5.5480e-003	0.00
tblFleetMix	MCY	5.5480e-003	0.00
tblFleetMix	MCY	5.5480e-003	0.00
tblFleetMix	MCY	5.5480e-003	0.00
tblFleetMix	MCY	5.5480e-003	0.00
tblFleetMix	MCY	5.5480e-003	0.00
tblFleetMix	MDV	0.10	0.00
tblFleetMix	MDV	0.10	0.00
tblFleetMix	MDV	0.10	0.00
tblFleetMix	MDV	0.10	0.00
tblFleetMix	MDV	0.10	0.00
tblFleetMix	MDV	0.10	0.00
tblFleetMix	MDV	0.10	0.00
tblFleetMix	MH	7.0900e-004	0.00
tblFleetMix	MH	7.0900e-004	0.00
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tblFleetMix	MH	7.0900e-004	0.00
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tblFleetMix	MH	7.0900e-004	0.00
tblFleetMix	MH	7.0900e-004	0.00

tblFleetMix	MHD	0.02	0.00
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tblFleetMix	MHD	0.02	0.00
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tblFleetMix	OBUS	1.9440e-003	0.00
tblFleetMix	OBUS	1.9440e-003	0.00
tblFleetMix	OBUS	1.9440e-003	0.00
tblFleetMix	OBUS	1.9440e-003	0.00
tblFleetMix	OBUS	1.9440e-003	0.00
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tblFleetMix	SBUS	8.0000e-004	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
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tblGrading	AcresOfGrading	3,102.00	240.00
tblGrading	AcresOfGrading	0.00	253.00

tblGrading	AcresOfGrading	0.00	208.50
tblGrading	AcresOfGrading	0.00	240.00
tblLandUse	LotAcreage	1.92	19.20
tblLandUse	LotAcreage	0.00	69.60
tblLandUse	LotAcreage	49.81	63.90
tblLandUse	LotAcreage	89.00	30.90
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tblLandUse	LotAcreage	1.38	9.31
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tblOffRoadEquipment	HorsePower	80.00	102.00
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tblOffRoadEquipment	HorsePower	158.00	235.00
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tblOffRoadEquipment	HorsePower	402.00	450.00
tblOffRoadEquipment	HorsePower	402.00	170.00
tblOffRoadEquipment	HorsePower	402.00	170.00
tblOffRoadEquipment	HorsePower	402.00	450.00

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tblOffRoadEquipment	HorsePower	402.00	170.00
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tblOffRoadEquipment	HorsePower	97.00	170.00
tblOffRoadEquipment	HorsePower	97.00	164.00
tblOffRoadEquipment	HorsePower	97.00	170.00
tblOffRoadEquipment	HorsePower	97.00	170.00
tblOffRoadEquipment	HorsePower	97.00	78.00
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tblOffRoadEquipment	HorsePower	97.00	170.00
tblOffRoadEquipment	HorsePower	97.00	170.00
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tblOffRoadEquipment	HorsePower	97.00	170.00
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tblOffRoadEquipment	HorsePower	97.00	170.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.10
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	1.10

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tblOffRoadEquipment	UsageHours	8.00	6.00
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tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	1.10
tblOffRoadEquipment	UsageHours	8.00	1.10
tblOffRoadEquipment	UsageHours	8.00	2.30
tblOffRoadEquipment	UsageHours	8.00	2.30
tblOffRoadEquipment	UsageHours	8.00	2.30
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	7.10
tblOffRoadEquipment	UsageHours	8.00	7.10

tblOffRoadEquipment	UsageHours	8.00	7.10
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	5.10
tblOffRoadEquipment	UsageHours	8.00	4.20
tblOffRoadEquipment	UsageHours	8.00	4.80
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	2.30
tblOffRoadEquipment	UsageHours	8.00	7.10
tblOffRoadEquipment	UsageHours	8.00	0.70
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	1.80
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
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tblOnRoadDust	HaulingPercentPave	100.00	50.00
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tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00

tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	17,355.00
tblTripsAndVMT	HaulingTripNumber	0.00	23,354.00
tblTripsAndVMT	HaulingTripNumber	0.00	320.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	11,677.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00
tblTripsAndVMT	VendorTripNumber	858.00	165.00
tblTripsAndVMT	VendorTripNumber	858.00	312.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00
tblTripsAndVMT	WorkerTripNumber	3,050.00	588.00
tblTripsAndVMT	WorkerTripNumber	3,050.00	1,099.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2021	6.1792	72.7519	41.4443	0.1182	564.1958	2.4616	566.6574	57.4349	2.2651	59.7000	0.0000	11,623.7910	11,623.7910	3.2897	0.0000	11,706.0335
2022	7.6122	78.6474	57.9438	0.1706	210.6859	2.7237	213.4096	22.2829	2.5061	24.7890	0.0000	16,728.4601	16,728.4601	4.6889	0.0000	16,845.6821
2023	9.2338	72.0975	83.2280	0.2845	6,454.7217	2.5373	6,457.2589	645.7668	2.3345	648.1013	0.0000	28,700.5369	28,700.5369	4.6663	0.0000	28,794.2846
2024	26.3951	243.8924	195.9836	0.5992	312.9983	8.5287	321.5270	41.9590	7.8602	49.8192	0.0000	59,249.4537	59,249.4537	13.6594	0.0000	59,590.9392
2025	25.3392	220.6050	200.3202	0.6394	151.1492	7.6210	158.7702	25.7410	7.0233	32.7643	0.0000	63,120.4598	63,120.4598	15.1103	0.0000	63,498.2159

2026	16.0462	128.3904	135.0449	0.4712	258.9902	3.6571	262.6473	31.0709	3.3879	34.4587	0.0000	47,397.2365	47,397.2365	8.1045	0.0000	47,583.7746
2027	15.7986	127.6847	132.9143	0.4661	170.6981	3.6509	174.3490	22.2547	3.3821	25.6368	0.0000	46,892.7400	46,892.7400	7.4343	0.0000	47,078.5983
2028	9.3501	83.2629	75.3782	0.2483	695.9133	2.7088	698.6220	72.6047	2.5035	75.1082	0.0000	24,697.4827	24,697.4827	5.1764	0.0000	24,826.8933
2029	3.4642	27.3412	33.5802	0.1151	5.9473	0.6752	6.6224	1.6028	0.6325	2.2353	0.0000	11,691.4217	11,691.4217	1.3060	0.0000	11,724.0721
Maximum	**26.3951**	**243.8924**	**200.3202**	**0.6394**	**6,454.7217**	**8.5287**	**6,457.2589**	**645.7668**	**7.8602**	**648.1013**	**0.0000**	**63,120.4598**	**63,120.4598**	**15.1103**	**0.0000**	**63,498.2159**

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	lb/day										lb/day					
2021	1.6366	13.2006	47.7090	0.1182	121.4933	0.2237	121.6733	12.4679	0.2087	12.6469	0.0000	11,623.7910	11,623.7910	3.2897	0.0000	11,706.0335
2022	2.6176	16.5997	74.5420	0.1706	46.1541	0.3176	46.4717	5.0609	0.3108	5.3717	0.0000	16,728.4601	16,728.4601	4.6889	0.0000	16,845.6821
2023	7.2811	43.5495	95.5222	0.2845	1,385.6438	0.8675	1,385.9468	138.8470	0.8236	139.1442	0.0000	28,700.5369	28,700.5369	4.6663	0.0000	28,794.2846
2024	10.7030	61.2959	230.4214	0.5992	75.1218	1.2648	76.3866	11.3778	1.2287	12.6065	0.0000	59,249.4537	59,249.4537	13.6594	0.0000	59,590.9392
2025	10.9842	63.2804	253.7790	0.6394	40.2089	1.3218	41.5307	7.8452	1.2850	9.1302	0.0000	63,120.4597	63,120.4597	15.1103	0.0000	63,498.2159
2026	10.5642	70.6492	156.4315	0.4712	66.4476	1.3111	67.7586	9.7331	1.2517	10.9848	0.0000	47,397.2365	47,397.2365	8.1045	0.0000	47,583.7746
2027	10.3167	69.9435	154.3009	0.4661	47.5069	1.3049	48.8117	7.8414	1.2460	9.0873	0.0000	46,892.7400	46,892.7400	7.4343	0.0000	47,078.5983
2028	4.8298	33.3055	92.0726	0.2483	153.1694	0.7150	153.8844	16.6955	0.6871	17.3825	0.0000	24,697.4827	24,697.4827	5.1764	0.0000	24,826.8933
2029	3.0247	23.5076	35.3908	0.1151	4.6488	0.5078	5.1566	1.2840	0.4806	1.7646	0.0000	11,691.4217	11,691.4217	1.3060	0.0000	11,724.0721
Maximum	**10.9842**	**70.6492**	**253.7790**	**0.6394**	**1,385.6438**	**1.3218**	**1,385.9468**	**138.8470**	**1.2850**	**139.1442**	**0.0000**	**63,120.4597**	**63,120.4597**	**15.1103**	**0.0000**	**63,498.2159**

	ROG	NOx	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	**48.12**	**62.52**	**-19.28**	**0.00**	**78.01**	**77.33**	**78.02**	**77.07**	**76.42**	**77.10**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664
Energy	1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044		15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779
Mobile	0.0000	0.0000	0.0000	0.0000	137.7703	0.0000	137.7703	33.8163	0.0000	33.8163		0.0000	0.0000	0.0000		0.0000
Total	**6,495.6295**	**140.1879**	**8,146.2704**	**14.4017**	**137.7703**	**1,109.7785**	**1,247.5488**	**33.8163**	**1,109.7785**	**1,143.5948**	**116,113.6062**	**64,993.5185**	**181,107.1247**	**107.8752**	**9.4240**	**186,612.3443**

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	lb/day										lb/day					
Area	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664
Energy	1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044		15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779
Mobile	0.0000	0.0000	0.0000	0.0000	137.7703	0.0000	137.7703	33.8163	0.0000	33.8163		0.0000	0.0000	0.0000		0.0000
Total	**6,495.6295**	**140.1879**	**8,146.2704**	**14.4017**	**137.7703**	**1,109.7785**	**1,247.5488**	**33.8163**	**1,109.7785**	**1,143.5948**	**116,113.6062**	**64,993.5185**	**181,107.1247**	**107.8752**	**9.4240**	**186,612.3443**

	ROG	NOx	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	Phase 1 Site Preparation	Site Preparation	7/1/2021	8/25/2021	5	40	
2	Phase 1 Grading	Grading	8/26/2021	1/11/2023	5	360	
3	Phase 1 Utilities	Trenching	8/29/2022	11/17/2023	5	320	
4	Phase 1 Surface Improvements	Paving	2/27/2023	11/1/2024	5	440	
5	Phase 1 Building Construction	Building Construction	9/18/2023	3/26/2027	5	920	
6	Phase 2 Site Preparation	Site Preparation	7/1/2024	8/23/2024	5	40	
7	Phase 2 Grading	Grading	8/26/2024	11/14/2025	5	320	
8	Phase 2 Utilities	Trenching	8/25/2025	7/24/2026	5	240	
9	Phase 2 Surface Improvements	Paving	2/23/2026	3/19/2027	5	280	
10	Phase 3 Site Preparation	Site Preparation	3/24/2026	5/18/2026	5	40	
11	Phase 3 Grading	Grading	5/19/2026	3/20/2028	5	480	
12	Phase 2 Building Construction	Building Construction	9/28/2026	6/28/2029	5	720	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1 Site Preparation	Rubber Tired Dozers	1	5.10	436	0.40
Phase 1 Site Preparation	Rubber Tired Loaders	1	5.10	249	0.36
Phase 1 Grading	Excavators	1	0.20	760	0.38
Phase 1 Grading	Graders	1	2.30	275	0.41
Phase 1 Grading	Graders	1	0.20	275	0.41
Phase 1 Grading	Off-Highway Trucks	3	2.30	300	0.38
Phase 1 Grading	Off-Highway Trucks	3	8.00	1025	0.38

Phase 1 Grading	Off-Highway Trucks	2	0.20	300	0.38
Phase 1 Grading	Plate Compactors	1	2.30	554	0.43
Phase 1 Grading	Rubber Tired Dozers	1	2.30	600	0.40
Phase 1 Grading	Rubber Tired Dozers	1	2.30	354	0.40
Phase 1 Grading	Rubber Tired Dozers	1	2.30	436	0.40
Phase 1 Grading	Rubber Tired Dozers	1	0.20	600	0.40
Phase 1 Grading	Rubber Tired Dozers	2	0.20	436	0.40
Phase 1 Grading	Scrapers	10	2.30	600	0.48
Phase 1 Grading	Tractors/Loaders/Backhoes	1	0.60	249	0.37
Phase 1 Utilities	Excavators	1	1.10	417	0.38
Phase 1 Utilities	Excavators	1	0.50	235	0.38
Phase 1 Utilities	Excavators	1	1.00	235	0.38
Phase 1 Utilities	Excavators	1	2.90	235	0.38
Phase 1 Utilities	Excavators	1	0.90	417	0.38
Phase 1 Utilities	Excavators	1	0.50	235	0.38
Phase 1 Utilities	Excavators	1	7.00	235	0.38
Phase 1 Utilities	Excavators	1	0.40	417	0.38
Phase 1 Utilities	Excavators	1	0.20	235	0.38
Phase 1 Utilities	Excavators	1	0.30	235	0.38
Phase 1 Utilities	Excavators	1	2.90	140	0.38
Phase 1 Utilities	Excavators	1	1.70	85	0.38
Phase 1 Utilities	Excavators	1	2.00	417	0.38
Phase 1 Utilities	Excavators	1	1.00	235	0.38
Phase 1 Utilities	Excavators	1	3.00	235	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.40	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.40	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.40	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	1.00	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.30	170	0.38

Phase 1 Utilities	Off-Highway Trucks	1	1.10	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	2.40	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.20	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.10	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.50	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	1.10	170	0.38
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.80	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.50	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	1.50	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.70	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	3.50	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.30	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.20	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	2.50	164	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	1.50	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	1.50	170	0.37
Phase 1 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 1 Surface Improvements	Graders	1	0.60	150	0.41
Phase 1 Surface Improvements	Graders	1	0.60	150	0.41
Phase 1 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 1 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 1 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 1 Surface Improvements	Rollers	1	0.60	102	0.38

Phase 1 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 1 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 1 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 1 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 1 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 1 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 1 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 1 Building Construction	Cement and Mortar Mixers	1	3.00	505	0.56
Phase 1 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 1 Building Construction	Off-Highway Trucks	1	1.30	170	0.38
Phase 1 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 1 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 2 Site Preparation	Rubber Tired Dozers	1	4.80	436	0.40
Phase 2 Site Preparation	Rubber Tired Loaders	1	4.80	249	0.36
Phase 2 Grading	Excavators	1	6.00	760	0.38
Phase 2 Grading	Graders	1	7.10	275	0.41
Phase 2 Grading	Graders	1	6.00	275	0.41
Phase 2 Grading	Off-Highway Trucks	3	7.10	300	0.38
Phase 2 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 2 Grading	Off-Highway Trucks	2	6.00	300	0.38
Phase 2 Grading	Plate Compactors	1	7.10	554	0.43
Phase 2 Grading	Rubber Tired Dozers	1	7.10	600	0.40
Phase 2 Grading	Rubber Tired Dozers	1	7.10	354	0.40
Phase 2 Grading	Rubber Tired Dozers	1	7.10	436	0.40
Phase 2 Grading	Rubber Tired Dozers	1	6.00	600	0.40
Phase 2 Grading	Rubber Tired Dozers	2	6.00	436	0.40
Phase 2 Grading	Scrapers	10	7.10	600	0.48
Phase 2 Grading	Tractors/Loaders/Backhoes	1	1.80	249	0.37
Phase 2 Utilities	Excavators	1	2.10	417	0.38
Phase 2 Utilities	Excavators	1	1.10	235	0.38
Phase 2 Utilities	Excavators	1	2.00	235	0.38
Phase 2 Utilities	Excavators	1	3.70	235	0.38

Phase 2 Utilities	Excavators	1	1.50	417	0.38
Phase 2 Utilities	Excavators	1	0.80	235	0.38
Phase 2 Utilities	Excavators	1	9.00	235	0.38
Phase 2 Utilities	Excavators	1	0.60	417	0.38
Phase 2 Utilities	Excavators	1	0.30	235	0.38
Phase 2 Utilities	Excavators	1	1.00	235	0.38
Phase 2 Utilities	Excavators	1	4.20	140	0.38
Phase 2 Utilities	Excavators	1	2.50	85	0.38
Phase 2 Utilities	Excavators	1	2.40	417	0.38
Phase 2 Utilities	Excavators	1	1.20	235	0.38
Phase 2 Utilities	Excavators	1	3.70	235	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.60	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	1.30	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.50	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	1.40	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	3.10	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.20	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.40	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.40	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.80	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.60	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	1.30	170	0.38
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.60	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.00	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.80	170	0.37

Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.10	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	4.50	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	0.40	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	0.50	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	3.60	164	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.80	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.90	170	0.37
Phase 2 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 2 Surface Improvements	Graders	1	0.60	150	0.41
Phase 2 Surface Improvements	Graders	1	0.60	150	0.41
Phase 2 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 2 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 2 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 2 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 2 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 2 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 2 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 2 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 3 Site Preparation	Rubber Tired Dozers	1	4.20	436	0.40
Phase 3 Site Preparation	Rubber Tired Loaders	1	4.20	249	0.36
Phase 3 Grading	Excavators	1	1.10	760	0.38
Phase 3 Grading	Graders	1	2.60	275	0.41
Phase 3 Grading	Graders	1	1.10	275	0.41
Phase 3 Grading	Off-Highway Trucks	3	2.60	300	0.38

Phase 3 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 3 Grading	Off-Highway Trucks	2	1.10	300	0.38
Phase 3 Grading	Plate Compactors	1	2.60	554	0.43
Phase 3 Grading	Rubber Tired Dozers	1	2.60	600	0.40
Phase 3 Grading	Rubber Tired Dozers	1	2.60	354	0.40
Phase 3 Grading	Rubber Tired Dozers	1	2.60	436	0.40
Phase 3 Grading	Rubber Tired Dozers	1	1.10	600	0.40
Phase 3 Grading	Rubber Tired Dozers	2	1.10	436	0.40
Phase 3 Grading	Scrapers	10	2.60	600	0.48
Phase 3 Grading	Tractors/Loaders/Backhoes	1	0.70	249	0.37
Phase 2 Building Construction	Cement and Mortar Mixers	1	2.00	505	0.56
Phase 2 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 2 Building Construction	Off-Highway Trucks	1	0.80	170	0.38
Phase 2 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 2 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 2 Building Construction	Cranes	1	7.00	231	0.29
Phase 1 Building Construction	Cranes	1	7.00	231	0.29
Phase 2 Building Construction	Forklifts	3	8.00	89	0.20
Phase 1 Building Construction	Forklifts	3	8.00	89	0.20
Phase 2 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 1 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 1 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 3 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 2 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 2 Building Construction	Welders	1	8.00	46	0.45
Phase 1 Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 1 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Grading	29	73.00	0.00	23,354.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Utilities	43	108.00	0.00	320.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Building Construction	18	1,099.00	312.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Grading	29	73.00	0.00	11,677.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Utilities	43	108.00	0.00	240.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Grading	29	73.00	0.00	17,355.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Building Construction	18	588.00	165.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Phase 1 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					10.5467	0.0000	10.5467	2.8345	0.0000	2.8345			0.0000			0.0000
Off-Road	1.9826	20.5678	18.2151	0.0270		1.0029	1.0029		0.9227	0.9227		2,616.0973	2,616.0973	0.8461		2,637.2497
Total	**1.9826**	**20.5678**	**18.2151**	**0.0270**	**10.5467**	**1.0029**	**11.5496**	**2.8345**	**0.9227**	**3.7572**		**2,616.0973**	**2,616.0973**	**0.8461**		**2,637.2497**

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	lb/day										lb/day					
Hauling	2.4800e-003	0.1181	0.0193	2.0000e-004	2.2092	1.6000e-004	2.2093	0.2208	1.5000e-004	0.2209		22.3738	22.3738	2.7000e-003		22.4413
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
Worker	0.0173	0.0112	0.1326	4.1000e-004	0.0411	2.8000e-004	0.0414	0.0109	2.6000e-004	0.0112		40.7220	40.7220	1.1600e-003		40.7511
Total	**0.0198**	**0.1293**	**0.1519**	**6.1000e-004**	**2.2502**	**4.4000e-004**	**2.2507**	**0.2317**	**4.1000e-004**	**0.2321**		**63.0959**	**63.0959**	**3.8600e-003**		**63.1924**

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	lb/day										lb/day					
Fugitive Dust					2.5913	0.0000	2.5913	0.6965	0.0000	0.6965			0.0000			0.0000
Off-Road	0.5809	4.3387	15.7621	0.0270		0.2233	0.2233		0.2083	0.2083	0.0000	2,616.0973	2,616.0973	0.8461		2,637.2497
Total	**0.5809**	**4.3387**	**15.7621**	**0.0270**	**2.5913**	**0.2233**	**2.8146**	**0.6965**	**0.2083**	**0.9047**	**0.0000**	**2,616.0973**	**2,616.0973**	**0.8461**		**2,637.2497**

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	lb/day										lb/day					
Hauling	2.4800e-003	0.1181	0.0193	2.0000e-004	0.4744	1.6000e-004	0.4746	0.0476	1.5000e-004	0.0477		22.3738	22.3738	2.7000e-003		22.4413
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
Worker	0.0173	0.0112	0.1326	4.1000e-004	0.0318	2.8000e-004	0.0321	8.6200e-003	2.6000e-004	8.8800e-003		40.7220	40.7220	1.1600e-003		40.7511
Total	**0.0198**	**0.1293**	**0.1519**	**6.1000e-004**	**0.5062**	**4.4000e-004**	**0.5067**	**0.0562**	**4.1000e-004**	**0.0566**		**63.0959**	**63.0959**	**3.8600e-003**		**63.1924**

3.3 Phase 1 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9283	0.0000	2.9283	1.2804	0.0000	1.2804			0.0000			0.0000
Off-Road	5.7659	64.9269	38.2560	0.0989		2.4473	2.4473		2.2515	2.2515		9,577.8095	9,577.8095	3.0977		9,655.2509
Total	**5.7659**	**64.9269**	**38.2560**	**0.0989**	**2.9283**	**2.4473**	**5.3756**	**1.2804**	**2.2515**	**3.5320**		**9,577.8095**	**9,577.8095**	**3.0977**		**9,655.2509**

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	lb/day										lb/day					

Hauling	0.1608	7.6609	1.2520	0.0133	560.6678	0.0101	560.6780	55.9954	9.7000e-003	56.0051		1,451.4397	1,451.4397	0.1751		1,455.8166
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
Worker	0.2525	0.1641	1.9362	5.9700e-003	0.5997	4.1400e-003	0.6038	0.1591	3.8200e-003	0.1629		594.5418	594.5418	0.0170		594.9660
Total	**0.4133**	**7.8250**	**3.1882**	**0.0192**	**561.2675**	**0.0143**	**561.2818**	**56.1545**	**0.0135**	**56.1680**		**2,045.9816**	**2,045.9816**	**0.1920**		**2,050.7826**

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	lb/day										lb/day					
Fugitive Dust					0.7195	0.0000	0.7195	0.3146	0.0000	0.3146			0.0000			0.0000
Off-Road	1.2233	5.3756	44.5207	0.0989		0.1658	0.1658		0.1654	0.1654	0.0000	9,577.8094	9,577.8094	3.0977		9,655.2509
Total	**1.2233**	**5.3756**	**44.5207**	**0.0989**	**0.7195**	**0.1658**	**0.8853**	**0.3146**	**0.1654**	**0.4800**	**0.0000**	**9,577.8094**	**9,577.8094**	**3.0977**		**9,655.2509**

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	lb/day										lb/day					
Hauling	0.1608	7.6609	1.2520	0.0133	120.3096	0.0101	120.3197	12.0275	9.7000e-003	12.0372		1,451.4397	1,451.4397	0.1751		1,455.8166
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
Worker	0.2525	0.1641	1.9362	5.9700e-003	0.4642	4.1400e-003	0.4683	0.1258	3.8200e-003	0.1296		594.5418	594.5418	0.0170		594.9660
Total	**0.4133**	**7.8250**	**3.1882**	**0.0192**	**120.7738**	**0.0143**	**120.7881**	**12.1533**	**0.0135**	**12.1669**		**2,045.9816**	**2,045.9816**	**0.1920**		**2,050.7826**

3.3 Phase 1 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9283	0.0000	2.9283	1.2804	0.0000	1.2804			0.0000			0.0000
Off-Road	5.2899	57.4015	35.6048	0.0989		2.1631	2.1631		1.9901	1.9901		9,571.2373	9,571.2373	3.0955		9,648.6256
Total	**5.2899**	**57.4015**	**35.6048**	**0.0989**	**2.9283**	**2.1631**	**5.0914**	**1.2804**	**1.9901**	**3.2705**		**9,571.2373**	**9,571.2373**	**3.0955**		**9,648.6256**

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	lb/day										lb/day					
Hauling	0.1507	7.2773	1.2241	0.0131	198.4176	8.5600e-003	198.4262	19.8237	8.1900e-003	19.8319		1,435.3141	1,435.3141	0.1680		1,439.5151
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
Worker	0.2387	0.1496	1.8005	5.7500e-003	0.5997	4.0500e-003	0.6037	0.1591	3.7300e-003	0.1628		572.7286	572.7286	0.0156		573.1175
Total	**0.3894**	**7.4268**	**3.0245**	**0.0188**	**199.0173**	**0.0126**	**199.0299**	**19.9828**	**0.0119**	**19.9947**		**2,008.0427**	**2,008.0427**	**0.1836**		**2,012.6326**

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	lb/day										lb/day					
Fugitive Dust					0.7195	0.0000	0.7195	0.3146	0.0000	0.3146			0.0000			0.0000
Off-Road	1.2221	5.3538	44.5195	0.0989		0.1651	0.1651		0.1648	0.1648	0.0000	9,571.2373	9,571.2373	3.0955		9,648.6256
Total	**1.2221**	**5.3538**	**44.5195**	**0.0989**	**0.7195**	**0.1651**	**0.8846**	**0.3146**	**0.1648**	**0.4794**	**0.0000**	**9,571.2373**	**9,571.2373**	**3.0955**		**9,648.6256**

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	lb/day										lb/day					
Hauling	0.1507	7.2773	1.2241	0.0131	42.5986	8.5600e-003	42.6071	4.2659	8.1900e-003	4.2741		1,435.3141	1,435.3141	0.1680		1,439.5151
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
Worker	0.2387	0.1496	1.8005	5.7500e-003	0.4642	4.0500e-003	0.4682	0.1258	3.7300e-003	0.1295		572.7286	572.7286	0.0156		573.1175
Total	**0.3894**	**7.4268**	**3.0245**	**0.0188**	**43.0628**	**0.0126**	**43.0754**	**4.3917**	**0.0119**	**4.4036**		**2,008.0427**	**2,008.0427**	**0.1836**		**2,012.6326**

3.3 Phase 1 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9283	0.0000	2.9283	1.2804	0.0000	1.2804			0.0000			0.0000
Off-Road	5.1336	53.9428	35.2351	0.0989		2.0462	2.0462		1.8825	1.8825		9,571.7513	9,571.7513	3.0957		9,649.1437
Total	**5.1336**	**53.9428**	**35.2351**	**0.0989**	**2.9283**	**2.0462**	**4.9745**	**1.2804**	**1.8825**	**3.1629**		**9,571.7513**	**9,571.7513**	**3.0957**		**9,649.1437**

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	lb/day										lb/day					
Hauling	0.1091	5.8597	1.1242	0.0126	6,447.2331	4.2300e-003	6,447.2374	643.7850	4.0400e-003	643.7890		1,385.3089	1,385.3089	0.1479		1,389.0063
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
Worker	0.2260	0.1366	1.6725	5.5300e-003	0.5997	3.9700e-003	0.6037	0.1591	3.6600e-003	0.1627		550.8340	550.8340	0.0142		551.1899
Total	**0.3351**	**5.9963**	**2.7967**	**0.0181**	**6,447.8328**	**8.2000e-003**	**6,447.8410**	**643.9440**	**7.7000e-003**	**643.9517**		**1,936.1429**	**1,936.1429**	**0.1621**		**1,940.1963**

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	lb/day										lb/day					
Fugitive Dust					0.7195	0.0000	0.7195	0.3146	0.0000	0.3146			0.0000			0.0000
Off-Road	1.2212	5.3356	44.5188	0.0989		0.1646	0.1646		0.1644	0.1644	0.0000	9,571.7513	9,571.7513	3.0957		9,649.1437
Total	**1.2212**	**5.3356**	**44.5188**	**0.0989**	**0.7195**	**0.1646**	**0.8841**	**0.3146**	**0.1644**	**0.4790**	**0.0000**	**9,571.7513**	**9,571.7513**	**3.0957**		**9,649.1437**

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	lb/day											lb/day					
Hauling	0.1091	5.8597	1.1242	0.0126	1,383.1136	4.2300e-003	1,383.1178	138.1544	4.0400e-003	138.1585		1,385.3089	1,385.3089	0.1479		1,389.0063
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
Worker	0.2260	0.1366	1.6725	5.5300e-003	0.4642	3.9700e-003	0.4681	0.1258	3.6600e-003	0.1295		550.8340	550.8340	0.0142		551.1899
Total	**0.3351**	**5.9963**	**2.7967**	**0.0181**	**1,383.5778**	**8.2000e-003**	**1,383.5860**	**138.2802**	**7.7000e-003**	**138.2879**		**1,936.1429**	**1,936.1429**	**0.1621**		**1,940.1963**

3.4 Phase 1 Utilities - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5774	13.4855	16.6319	0.0442		0.5418	0.5418		0.4985	0.4985		4,279.7303	4,279.7303	1.3842		4,314.3341
Total	**1.5774**	**13.4855**	**16.6319**	**0.0442**		**0.5418**	**0.5418**		**0.4985**	**0.4985**		**4,279.7303**	**4,279.7303**	**1.3842**		**4,314.3341**

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	lb/day										lb/day					
Hauling	2.3200e-003	0.1122	0.0189	2.0000e-004	7.8531	1.3000e-004	7.8533	0.7843	1.3000e-004	0.7845		22.1253	22.1253	2.5900e-003		22.1900
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
Worker	0.3532	0.2213	2.6637	8.5000e-003	0.8872	6.0000e-003	0.8932	0.2353	5.5200e-003	0.2409		847.3245	847.3245	0.0230		847.8998

Total	**0.3555**	**0.3335**	**2.6826**	**8.7000e-003**	**8.7403**	**6.1300e-003**	**8.7465**	**1.0197**	**5.6500e-003**	**1.0253**		**869.4498**	**869.4498**	**0.0256**		**870.0898**

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	lb/day										lb/day					
Off-Road	0.6505	3.4855	24.3153	0.0442		0.1338	0.1338		0.1284	0.1284	0.0000	4,279.7303	4,279.7303	1.3842		4,314.3341
Total	**0.6505**	**3.4855**	**24.3153**	**0.0442**		**0.1338**	**0.1338**		**0.1284**	**0.1284**	**0.0000**	**4,279.7303**	**4,279.7303**	**1.3842**		**4,314.3341**

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	lb/day										lb/day					
Hauling	2.3200e-003	0.1122	0.0189	2.0000e-004	1.6852	1.3000e-004	1.6853	0.1685	1.3000e-004	0.1686		22.1253	22.1253	2.5900e-003		22.1900
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
Worker	0.3532	0.2213	2.6637	8.5000e-003	0.6867	6.0000e-003	0.6927	0.1861	5.5200e-003	0.1916		847.3245	847.3245	0.0230		847.8998
Total	**0.3555**	**0.3335**	**2.6826**	**8.7000e-003**	**2.3719**	**6.1300e-003**	**2.3781**	**0.3546**	**5.6500e-003**	**0.3603**		**869.4498**	**869.4498**	**0.0256**		**870.0898**

3.4 Phase 1 Utilities - 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	lb/day										lb/day					
Off-Road	1.4973	11.8660	16.5950	0.0443		0.4769	0.4769		0.4388	0.4388		4,282.8423	4,282.8423	1.3852		4,317.4713
Total	**1.4973**	**11.8660**	**16.5950**	**0.0443**		**0.4769**	**0.4769**		**0.4388**	**0.4388**		**4,282.8423**	**4,282.8423**	**1.3852**		**4,317.4713**

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	lb/day										lb/day					
Hauling	1.6800e-003	0.0903	0.0173	1.9000e-004	3.0734	7.0000e-005	3.0734	0.3071	6.0000e-005	0.3071		21.3544	21.3544	2.2800e-003		21.4114
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
Worker	0.3344	0.2021	2.4744	8.1700e-003	0.8872	5.8800e-003	0.8931	0.2353	5.4100e-003	0.2407		814.9325	814.9325	0.0211		815.4591
Total	**0.3361**	**0.2924**	**2.4917**	**8.3600e-003**	**3.9606**	**5.9500e-003**	**3.9665**	**0.5424**	**5.4700e-003**	**0.5479**		**836.2869**	**836.2869**	**0.0233**		**836.8705**

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	lb/day										lb/day					
Off-Road	0.6387	3.3112	24.3140	0.0443		0.1242	0.1242		0.1196	0.1196	0.0000	4,282.8423	4,282.8423	1.3852		4,317.4713
Total	**0.6387**	**3.3112**	**24.3140**	**0.0443**		**0.1242**	**0.1242**		**0.1196**	**0.1196**	**0.0000**	**4,282.8423**	**4,282.8423**	**1.3852**		**4,317.4713**

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	lb/day										lb/day					
Hauling	1.6800e-003	0.0903	0.0173	1.9000e-004	0.6598	7.0000e-005	0.6599	0.0661	6.0000e-005	0.0661		21.3544	21.3544	2.2800e-003		21.4114
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
Worker	0.3344	0.2021	2.4744	8.1700e-003	0.6867	5.8800e-003	0.6926	0.1861	5.4100e-003	0.1915		814.9325	814.9325	0.0211		815.4591
Total	**0.3361**	**0.2924**	**2.4917**	**8.3600e-003**	**1.3465**	**5.9500e-003**	**1.3525**	**0.2522**	**5.4700e-003**	**0.2577**		**836.2869**	**836.2869**	**0.0233**		**836.8705**

3.5 Phase 1 Surface Improvements - 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	lb/day										lb/day					
Off-Road	0.6697	5.1812	5.4059	0.0152		0.2213	0.2213		0.2036	0.2036		1,470.7456	1,470.7456	0.4757		1,482.6373
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6697**	**5.1812**	**5.4059**	**0.0152**		**0.2213**	**0.2213**		**0.2036**	**0.2036**		**1,470.7456**	**1,470.7456**	**0.4757**		**1,482.6373**

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	lb/day										lb/day					
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
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
Worker	0.4644	0.2807	3.4366	0.0114	1.2322	8.1600e-003	1.2404	0.3268	7.5200e-003	0.3344		1,131.8507	1,131.8507	0.0293		1,132.5821
Total	**0.4644**	**0.2807**	**3.4366**	**0.0114**	**1.2322**	**8.1600e-003**	**1.2404**	**0.3268**	**7.5200e-003**	**0.3344**		**1,131.8507**	**1,131.8507**	**0.0293**		**1,132.5821**

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	lb/day										lb/day					
Off-Road	0.1906	0.9291	7.9449	0.0152		0.0265	0.0265		0.0264	0.0264	0.0000	1,470.7456	1,470.7456	0.4757		1,482.6373
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1906**	**0.9291**	**7.9449**	**0.0152**		**0.0265**	**0.0265**		**0.0264**	**0.0264**	**0.0000**	**1,470.7456**	**1,470.7456**	**0.4757**		**1,482.6373**

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	lb/day										lb/day					
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
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

Worker	0.4644	0.2807	3.4366	0.0114	0.9538	8.1600e-003	0.9619	0.2585	7.5200e-003	0.2660		1,131.8507	1,131.8507	0.0293		1,132.5821
Total	**0.4644**	**0.2807**	**3.4366**	**0.0114**	**0.9538**	**8.1600e-003**	**0.9619**	**0.2585**	**7.5200e-003**	**0.2660**		**1,131.8507**	**1,131.8507**	**0.0293**		**1,132.5821**

3.5 Phase 1 Surface Improvements - 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	lb/day										lb/day					
Off-Road	0.6499	4.8007	5.3712	0.0152		0.2025	0.2025		0.1863	0.1863		1,471.2043	1,471.2043	0.4758		1,483.0997
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6499**	**4.8007**	**5.3712**	**0.0152**		**0.2025**	**0.2025**		**0.1863**	**0.1863**		**1,471.2043**	**1,471.2043**	**0.4758**		**1,483.0997**

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	lb/day										lb/day					
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
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
Worker	0.4411	0.2575	3.2131	0.0109	1.2322	8.0100e-003	1.2402	0.3268	7.3800e-003	0.3342		1,087.2557	1,087.2557	0.0269		1,087.9281
Total	**0.4411**	**0.2575**	**3.2131**	**0.0109**	**1.2322**	**8.0100e-003**	**1.2402**	**0.3268**	**7.3800e-003**	**0.3342**		**1,087.2557**	**1,087.2557**	**0.0269**		**1,087.9281**

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	lb/day										lb/day					
Off-Road	0.1905	0.9269	7.9451	0.0152		0.0263	0.0263		0.0262	0.0262	0.0000	1,471.2043	1,471.2043	0.4758		1,483.0997
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1905**	**0.9269**	**7.9451**	**0.0152**		**0.0263**	**0.0263**		**0.0262**	**0.0262**	**0.0000**	**1,471.2043**	**1,471.2043**	**0.4758**		**1,483.0997**

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	lb/day										lb/day					
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
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
Worker	0.4411	0.2575	3.2131	0.0109	0.9538	8.0100e-003	0.9618	0.2585	7.3800e-003	0.2659		1,087.2557	1,087.2557	0.0269		1,087.9281
Total	**0.4411**	**0.2575**	**3.2131**	**0.0109**	**0.9538**	**8.0100e-003**	**0.9618**	**0.2585**	**7.3800e-003**	**0.2659**		**1,087.2557**	**1,087.2557**	**0.0269**		**1,087.9281**

3.6 Phase 1 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1872	18.7572	23.0956	0.0409		0.8898	0.8898		0.8333	0.8333		3,909.0276	3,909.0276	1.0457		3,935.1701

Total	**2.1872**	**18.7572**	**23.0956**	**0.0409**		**0.8898**	**0.8898**		**0.8333**	**0.8333**		**3,909.0276**	**3,909.0276**	**1.0457**		**3,935.1701**

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	lb/day										lb/day					
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
Vendor	0.6765	23.6368	7.0241	0.0813	2.1121	0.0279	2.1400	0.6080	0.0266	0.6346		8,777.0915	8,777.0915	0.5764		8,791.5021
Worker	3.4027	2.0567	25.1790	0.0832	9.0280	0.0598	9.0878	2.3947	0.0551	2.4497		8,292.6924	8,292.6924	0.2144		8,298.0513
Total	**4.0792**	**25.6934**	**32.2032**	**0.1645**	**11.1401**	**0.0877**	**11.2278**	**3.0027**	**0.0817**	**3.0844**		**17,069.7839**	**17,069.7839**	**0.7908**		**17,089.5534**

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	lb/day										lb/day					
Off-Road	1.5721	13.0425	25.1317	0.0409		0.6149	0.6149		0.5829	0.5829	0.0000	3,909.0276	3,909.0276	1.0457		3,935.1701
Total	**1.5721**	**13.0425**	**25.1317**	**0.0409**		**0.6149**	**0.6149**		**0.5829**	**0.5829**	**0.0000**	**3,909.0276**	**3,909.0276**	**1.0457**		**3,935.1701**

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	lb/day										lb/day					
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
Vendor	0.6765	23.6368	7.0241	0.0813	1.7206	0.0279	1.7485	0.5119	0.0266	0.5385		8,777.0915	8,777.0915	0.5764		8,791.5021
Worker	3.4027	2.0567	25.1790	0.0832	6.9880	0.0598	7.0478	1.8939	0.0551	1.9490		8,292.6924	8,292.6924	0.2144		8,298.0513
Total	**4.0792**	**25.6934**	**32.2032**	**0.1645**	**8.7087**	**0.0877**	**8.7963**	**2.4058**	**0.0817**	**2.4875**		**17,069.7839**	**17,069.7839**	**0.7908**		**17,089.5534**

3.6 Phase 1 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0637	17.4009	23.0335	0.0409		0.7818	0.7818		0.7319	0.7319		3,909.6871	3,909.6871	1.0423		3,935.7436
Total	**2.0637**	**17.4009**	**23.0335**	**0.0409**		**0.7818**	**0.7818**		**0.7319**	**0.7319**		**3,909.6871**	**3,909.6871**	**1.0423**		**3,935.7436**

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	lb/day										lb/day					
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

Vendor	0.6526	23.3073	6.8051	0.0806	2.1121	0.0272	2.1393	0.6080	0.0260	0.6340		8,720.6384	8,720.6384	0.5698		8,734.8832
Worker	3.2320	1.8867	23.5416	0.0799	9.0280	0.0587	9.0867	2.3947	0.0541	2.4487		7,965.9598	7,965.9598	0.1971		7,970.8864
Total	**3.8846**	**25.1940**	**30.3466**	**0.1605**	**11.1401**	**0.0859**	**11.2260**	**3.0027**	**0.0800**	**3.0827**		**16,686.5982**	**16,686.5982**	**0.7669**		**16,705.7696**

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	lb/day										lb/day					
Off-Road	1.4822	12.2345	25.0480	0.0409		0.5428	0.5428		0.5144	0.5144	0.0000	3,909.6871	3,909.6871	1.0423		3,935.7436
Total	**1.4822**	**12.2345**	**25.0480**	**0.0409**		**0.5428**	**0.5428**		**0.5144**	**0.5144**	**0.0000**	**3,909.6871**	**3,909.6871**	**1.0423**		**3,935.7436**

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	lb/day										lb/day					
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
Vendor	0.6526	23.3073	6.8051	0.0806	1.7206	0.0272	1.7478	0.5119	0.0260	0.5379		8,720.6384	8,720.6384	0.5698		8,734.8832
Worker	3.2320	1.8867	23.5416	0.0799	6.9880	0.0587	7.0467	1.8939	0.0541	1.9480		7,965.9598	7,965.9598	0.1971		7,970.8864
Total	**3.8846**	**25.1940**	**30.3466**	**0.1605**	**8.7087**	**0.0859**	**8.7945**	**2.4058**	**0.0800**	**2.4859**		**16,686.5982**	**16,686.5982**	**0.7669**		**16,705.7696**

3.6 Phase 1 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361		3,909.7288	3,909.7288	1.0386		3,935.6943
Total	**1.9340**	**15.9556**	**22.9257**	**0.0409**		**0.6796**	**0.6796**		**0.6361**	**0.6361**		**3,909.7288**	**3,909.7288**	**1.0386**		**3,935.6943**

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	lb/day										lb/day					
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
Vendor	0.6335	22.9705	6.6722	0.0800	2.1121	0.0264	2.1385	0.6080	0.0253	0.6333		8,666.9848	8,666.9848	0.5642		8,681.0885
Worker	3.0836	1.7398	21.9902	0.0767	9.0280	0.0578	9.0858	2.3947	0.0532	2.4479		7,643.6727	7,643.6727	0.1820		7,648.2224
Total	**3.7171**	**24.7103**	**28.6624**	**0.1567**	**11.1401**	**0.0842**	**11.2243**	**3.0027**	**0.0784**	**3.0811**		**16,310.6576**	**16,310.6576**	**0.7461**		**16,329.3109**

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	lb/day										lb/day					
Off-Road	1.3960	11.4327	24.9749	0.0409		0.4758	0.4758		0.4511	0.4511	0.0000	3,909.7288	3,909.7288	1.0386		3,935.6943

Total	**1.3960**	**11.4327**	**24.9749**	**0.0409**		**0.4758**	**0.4758**		**0.4511**	**0.4511**	**0.0000**	**3,909.7288**	**3,909.7288**	**1.0386**		**3,935.6943**

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	lb/day										lb/day					
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
Vendor	0.6335	22.9705	6.6722	0.0800	1.7206	0.0264	1.7471	0.5119	0.0253	0.5372		8,666.9848	8,666.9848	0.5642		8,681.0885
Worker	3.0836	1.7398	21.9902	0.0767	6.9880	0.0578	7.0458	1.8939	0.0532	1.9471		7,643.6727	7,643.6727	0.1820		7,648.2224
Total	**3.7171**	**24.7103**	**28.6624**	**0.1567**	**8.7086**	**0.0842**	**8.7929**	**2.4058**	**0.0784**	**2.4843**		**16,310.6576**	**16,310.6576**	**0.7461**		**16,329.3109**

3.6 Phase 1 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361		3,909.7288	3,909.7288	1.0386		3,935.6943
Total	**1.9340**	**15.9556**	**22.9257**	**0.0409**		**0.6796**	**0.6796**		**0.6361**	**0.6361**		**3,909.7288**	**3,909.7288**	**1.0386**		**3,935.6943**

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	lb/day										lb/day					
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
Vendor	0.6174	22.6445	6.5805	0.0795	2.1121	0.0257	2.1378	0.6080	0.0246	0.6326		8,616.7732	8,616.7732	0.5587		8,630.7416
Worker	2.9532	1.6183	20.6815	0.0738	9.0280	0.0560	9.0840	2.3947	0.0515	2.4462		7,363.6770	7,363.6770	0.1697		7,367.9183
Total	**3.5706**	**24.2628**	**27.2620**	**0.1533**	**11.1401**	**0.0817**	**11.2218**	**3.0027**	**0.0761**	**3.0788**		**15,980.4502**	**15,980.4502**	**0.7284**		**15,998.6599**

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	lb/day										lb/day					
Off-Road	1.3960	11.4327	24.9749	0.0409		0.4758	0.4758		0.4511	0.4511	0.0000	3,909.7288	3,909.7288	1.0386		3,935.6943
Total	**1.3960**	**11.4327**	**24.9749**	**0.0409**		**0.4758**	**0.4758**		**0.4511**	**0.4511**	**0.0000**	**3,909.7288**	**3,909.7288**	**1.0386**		**3,935.6943**

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	lb/day										lb/day					
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

Vendor	0.6174	22.6445	6.5805	0.0795	1.7206	0.0257	1.7463	0.5119	0.0246	0.5365		8,616.7732	8,616.7732	0.5587		8,630.7416
Worker	2.9532	1.6183	20.6815	0.0738	6.9880	0.0560	7.0440	1.8939	0.0515	1.9455		7,363.6770	7,363.6770	0.1697		7,367.9183
Total	**3.5706**	**24.2628**	**27.2620**	**0.1533**	**8.7086**	**0.0817**	**8.7903**	**2.4058**	**0.0761**	**2.4819**		**15,980.4502**	**15,980.4502**	**0.7284**		**15,998.6599**

3.6 Phase 1 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361		3,909.7288	3,909.7288	1.0386		3,935.6943
Total	**1.9340**	**15.9556**	**22.9257**	**0.0409**		**0.6796**	**0.6796**		**0.6361**	**0.6361**		**3,909.7288**	**3,909.7288**	**1.0386**		**3,935.6943**

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	lb/day										lb/day					
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
Vendor	0.6038	22.3325	6.5024	0.0789	2.1121	0.0251	2.1372	0.6080	0.0240	0.6320		8,570.8412	8,570.8412	0.5541		8,584.6929
Worker	2.8232	1.5108	19.5218	0.0714	9.0280	0.0530	9.0810	2.3947	0.0488	2.4434		7,117.1314	7,117.1314	0.1589		7,121.1043
Total	**3.4270**	**23.8433**	**26.0242**	**0.1503**	**11.1401**	**0.0781**	**11.2182**	**3.0027**	**0.0728**	**3.0754**		**15,687.9726**	**15,687.9726**	**0.7130**		**15,705.7972**

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	lb/day										lb/day					
Off-Road	1.3960	11.4327	24.9749	0.0409		0.4758	0.4758		0.4511	0.4511	0.0000	3,909.7288	3,909.7288	1.0386		3,935.6943
Total	**1.3960**	**11.4327**	**24.9749**	**0.0409**		**0.4758**	**0.4758**		**0.4511**	**0.4511**	**0.0000**	**3,909.7288**	**3,909.7288**	**1.0386**		**3,935.6943**

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	lb/day										lb/day					
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
Vendor	0.6038	22.3325	6.5024	0.0789	1.7206	0.0251	1.7457	0.5119	0.0240	0.5359		8,570.8412	8,570.8412	0.5541		8,584.6929
Worker	2.8232	1.5108	19.5218	0.0714	6.9880	0.0530	7.0410	1.8939	0.0488	1.9427		7,117.1314	7,117.1314	0.1589		7,121.1043
Total	**3.4270**	**23.8433**	**26.0242**	**0.1503**	**8.7086**	**0.0781**	**8.7867**	**2.4058**	**0.0728**	**2.4786**		**15,687.9726**	**15,687.9726**	**0.7130**		**15,705.7972**

3.7 Phase 2 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	lb/day										lb/day					
Fugitive Dust					9.9763	0.0000	9.9763	2.6732	0.0000	2.6732			0.0000			0.0000

Off-Road	1.5314	14.9445	16.4243	0.0262		0.6597	0.6597		0.6069	0.6069		2,537.4388	2,537.4388	0.8207		2,557.9553
Total	**1.5314**	**14.9445**	**16.4243**	**0.0262**	**9.9763**	**0.6597**	**10.6359**	**2.6732**	**0.6069**	**3.2801**		**2,537.4388**	**2,537.4388**	**0.8207**		**2,557.9553**

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	lb/day										lb/day					
Hauling	1.6300e-003	0.0889	0.0172	1.9000e-004	2.2092	6.0000e-005	2.2092	0.2208	6.0000e-005	0.2208		21.1425	21.1425	2.2300e-003		21.1983
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
Worker	0.0147	8.5800e-003	0.1071	3.6000e-004	0.0411	2.7000e-004	0.0413	0.0109	2.5000e-004	0.0111		36.2419	36.2419	9.0000e-004		36.2643
Total	**0.0163**	**0.0974**	**0.1243**	**5.5000e-004**	**2.2502**	**3.3000e-004**	**2.2506**	**0.2317**	**3.1000e-004**	**0.2320**		**57.3844**	**57.3844**	**3.1300e-003**		**57.4626**

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	lb/day										lb/day					
Fugitive Dust					2.4512	0.0000	2.4512	0.6568	0.0000	0.6568			0.0000			0.0000
Off-Road	0.4976	3.5414	15.3365	0.0262		0.1458	0.1458		0.1368	0.1368	0.0000	2,537.4388	2,537.4388	0.8207		2,557.9553
Total	**0.4976**	**3.5414**	**15.3365**	**0.0262**	**2.4512**	**0.1458**	**2.5969**	**0.6568**	**0.1368**	**0.7936**	**0.0000**	**2,537.4388**	**2,537.4388**	**0.8207**		**2,557.9553**

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	lb/day										lb/day					
Hauling	1.6300e-003	0.0889	0.0172	1.9000e-004	0.4744	6.0000e-005	0.4745	0.0476	6.0000e-005	0.0476		21.1425	21.1425	2.2300e-003		21.1983
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
Worker	0.0147	8.5800e-003	0.1071	3.6000e-004	0.0318	2.7000e-004	0.0321	8.6200e-003	2.5000e-004	8.8600e-003		36.2419	36.2419	9.0000e-004		36.2643
Total	**0.0163**	**0.0974**	**0.1243**	**5.5000e-004**	**0.5062**	**3.3000e-004**	**0.5066**	**0.0562**	**3.1000e-004**	**0.0565**		**57.3844**	**57.3844**	**3.1300e-003**		**57.4626**

3.8 Phase 2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6897	0.0000	19.6897	10.4717	0.0000	10.4717			0.0000			0.0000
Off-Road	19.0815	192.8717	131.8274	0.3594		7.4444	7.4444		6.8488	6.8488		34,794.0735	34,794.0735	11.2531		35,075.4012
Total	**19.0815**	**192.8717**	**131.8274**	**0.3594**	**19.6897**	**7.4444**	**27.1341**	**10.4717**	**6.8488**	**17.3206**		**34,794.0735**	**34,794.0735**	**11.2531**		**35,075.4012**

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	lb/day										lb/day					
Hauling	0.0597	3.2423	0.6280	6.9900e-003	280.3366	2.2600e-003	280.3388	27.9987	2.1600e-003	28.0008		771.5038	771.5038	0.0814		773.5386

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
Worker	0.2147	0.1253	1.5637	5.3100e-003	0.5997	3.9000e-003	0.6036	0.1591	3.5900e-003	0.1627		529.1311	529.1311	0.0131		529.4583
Total	**0.2743**	**3.3676**	**2.1918**	**0.0123**	**280.9363**	**6.1600e-003**	**280.9424**	**28.1577**	**5.7500e-003**	**28.1635**		**1,300.6349**	**1,300.6349**	**0.0945**		**1,302.9970**

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	lb/day										lb/day					
Fugitive Dust					4.8378	0.0000	4.8378	2.5729	0.0000	2.5729			0.0000			0.0000
Off-Road	4.4303	19.3153	161.6768	0.3594		0.5956	0.5956		0.5950	0.5950	0.0000	34,794.0735	34,794.0735	11.2531		35,075.4012
Total	**4.4303**	**19.3153**	**161.6768**	**0.3594**	**4.8378**	**0.5956**	**5.4334**	**2.5729**	**0.5950**	**3.1679**	**0.0000**	**34,794.0735**	**34,794.0735**	**11.2531**		**35,075.4012**

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	lb/day										lb/day					
Hauling	0.0597	3.2423	0.6280	6.9900e-003	60.1575	2.2600e-003	60.1597	6.0147	2.1600e-003	6.0169		771.5038	771.5038	0.0814		773.5386
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
Worker	0.2147	0.1253	1.5637	5.3100e-003	0.4642	3.9000e-003	0.4681	0.1258	3.5900e-003	0.1294		529.1311	529.1311	0.0131		529.4583
Total	**0.2743**	**3.3676**	**2.1918**	**0.0123**	**60.6216**	**6.1600e-003**	**60.6278**	**6.1405**	**5.7500e-003**	**6.1463**		**1,300.6349**	**1,300.6349**	**0.0945**		**1,302.9970**

3.8 Phase 2 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6897	0.0000	19.6897	10.4717	0.0000	10.4717			0.0000			0.0000
Off-Road	17.2011	163.1274	121.2372	0.3597		6.3130	6.3130		5.8080	5.8080		34,821.7530	34,821.7530	11.2621		35,103.3045
Total	**17.2011**	**163.1274**	**121.2372**	**0.3597**	**19.6897**	**6.3130**	**26.0027**	**10.4717**	**5.8080**	**16.2797**		**34,821.7530**	**34,821.7530**	**11.2621**		**35,103.3045**

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	lb/day										lb/day					
Hauling	0.0583	3.1911	0.6312	6.9100e-003	113.1325	2.1400e-003	113.1347	11.3029	2.0400e-003	11.3049		764.3338	764.3338	0.0797		766.3265
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
Worker	0.2048	0.1156	1.4607	5.0900e-003	0.5997	3.8400e-003	0.6035	0.1591	3.5300e-003	0.1626		507.7235	507.7235	0.0121		508.0257
Total	**0.2631**	**3.3066**	**2.0919**	**0.0120**	**113.7322**	**5.9800e-003**	**113.7382**	**11.4620**	**5.5700e-003**	**11.4675**		**1,272.0573**	**1,272.0573**	**0.0918**		**1,274.3522**

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	lb/day										lb/day					
Fugitive Dust					4.8378	0.0000	4.8378	2.5729	0.0000	2.5729			0.0000			0.0000

Off-Road	4.4282	19.2759	161.6759	0.3597		0.5945	0.5945		0.5940	0.5940	0.0000	34,821.7530	34,821.7530	11.2621		35,103.3045
Total	**4.4282**	**19.2759**	**161.6759**	**0.3597**	**4.8378**	**0.5945**	**5.4323**	**2.5729**	**0.5940**	**3.1669**	**0.0000**	**34,821.7530**	**34,821.7530**	**11.2621**		**35,103.3045**

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	lb/day										lb/day					
Hauling	0.0583	3.1911	0.6312	6.9100e-003	24.2883	2.1400e-003	24.2905	2.4322	2.0400e-003	2.4342		764.3338	764.3338	0.0797		766.3265
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
Worker	0.2048	0.1156	1.4607	5.0900e-003	0.4642	3.8400e-003	0.4680	0.1258	3.5300e-003	0.1293		507.7235	507.7235	0.0121		508.0257
Total	**0.2631**	**3.3066**	**2.0919**	**0.0120**	**24.7525**	**5.9800e-003**	**24.7585**	**2.5580**	**5.5700e-003**	**2.5636**		**1,272.0573**	**1,272.0573**	**0.0918**		**1,274.3522**

3.9 Phase 2 Utilities - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9193	13.2467	23.2248	0.0624		0.5325	0.5325		0.4899	0.4899		6,034.1645	6,034.1645	1.9516		6,082.9538
Total	**1.9193**	**13.2467**	**23.2248**	**0.0624**		**0.5325**	**0.5325**		**0.4899**	**0.4899**		**6,034.1645**	**6,034.1645**	**1.9516**		**6,082.9538**

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	lb/day										lb/day					
Hauling	1.6000e-003	0.0875	0.0173	1.9000e-004	5.7000	6.0000e-005	5.7001	0.5693	6.0000e-005	0.5694		20.9460	20.9460	2.1800e-003		21.0006
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
Worker	0.3030	0.1710	2.1610	7.5300e-003	0.8872	5.6800e-003	0.8929	0.2353	5.2300e-003	0.2406		751.1526	751.1526	0.0179		751.5997
Total	**0.3046**	**0.2584**	**2.1783**	**7.7200e-003**	**6.5872**	**5.7400e-003**	**6.5930**	**0.8047**	**5.2900e-003**	**0.8099**		**772.0986**	**772.0986**	**0.0201**		**772.6003**

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	lb/day										lb/day					
Off-Road	0.8751	4.2964	34.1956	0.0624		0.1555	0.1555		0.1506	0.1506	0.0000	6,034.1645	6,034.1645	1.9516		6,082.9538
Total	**0.8751**	**4.2964**	**34.1956**	**0.0624**		**0.1555**	**0.1555**		**0.1506**	**0.1506**	**0.0000**	**6,034.1645**	**6,034.1645**	**1.9516**		**6,082.9538**

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	lb/day										lb/day					
Hauling	1.6000e-003	0.0875	0.0173	1.9000e-004	1.2233	6.0000e-005	1.2234	0.1224	6.0000e-005	0.1224		20.9460	20.9460	2.1800e-003		21.0006

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
Worker	0.3030	0.1710	2.1610	7.5300e-003	0.6867	5.6800e-003	0.6924	0.1861	5.2300e-003	0.1914		751.1526	751.1526	0.0179		751.5997
Total	**0.3046**	**0.2584**	**2.1783**	**7.7200e-003**	**1.9100**	**5.7400e-003**	**1.9158**	**0.3085**	**5.2900e-003**	**0.3138**		**772.0986**	**772.0986**	**0.0201**		**772.6003**

3.9 Phase 2 Utilities - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9193	13.2467	23.2248	0.0624		0.5325	0.5325		0.4899	0.4899		6,034.1645	6,034.1645	1.9516		6,082.9538
Total	**1.9193**	**13.2467**	**23.2248**	**0.0624**		**0.5325**	**0.5325**		**0.4899**	**0.4899**		**6,034.1645**	**6,034.1645**	**1.9516**		**6,082.9538**

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	lb/day										lb/day					
Hauling	1.5700e-003	0.0861	0.0175	1.9000e-004	3.6064	6.0000e-005	3.6064	0.3603	5.0000e-005	0.3603		20.7608	20.7608	2.1400e-003		20.8143
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
Worker	0.2902	0.1590	2.0324	7.2600e-003	0.8872	5.5000e-003	0.8927	0.2353	5.0600e-003	0.2404		723.6371	723.6371	0.0167		724.0539
Total	**0.2918**	**0.2452**	**2.0498**	**7.4500e-003**	**4.4936**	**5.5600e-003**	**4.4991**	**0.5956**	**5.1100e-003**	**0.6007**		**744.3978**	**744.3978**	**0.0188**		**744.8682**

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	lb/day										lb/day					
Off-Road	0.8751	4.2964	34.1956	0.0624		0.1555	0.1555		0.1506	0.1506	0.0000	6,034.1645	6,034.1645	1.9516		6,082.9538
Total	**0.8751**	**4.2964**	**34.1956**	**0.0624**		**0.1555**	**0.1555**		**0.1506**	**0.1506**	**0.0000**	**6,034.1645**	**6,034.1645**	**1.9516**		**6,082.9538**

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	lb/day										lb/day					
Hauling	1.5700e-003	0.0861	0.0175	1.9000e-004	0.7742	6.0000e-005	0.7742	0.0775	5.0000e-005	0.0776		20.7608	20.7608	2.1400e-003		20.8143
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
Worker	0.2902	0.1590	2.0324	7.2600e-003	0.6867	5.5000e-003	0.6922	0.1861	5.0600e-003	0.1912		723.6371	723.6371	0.0167		724.0539
Total	**0.2918**	**0.2452**	**2.0498**	**7.4500e-003**	**1.4609**	**5.5600e-003**	**1.4664**	**0.2636**	**5.1100e-003**	**0.2687**		**744.3978**	**744.3978**	**0.0188**		**744.8682**

3.10 Phase 2 Surface Improvements - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.5923	1,470.5923	0.4756		1,482.4827

Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6138**	**4.1849**	**5.3019**	**0.0152**		**0.1746**	**0.1746**		**0.1606**	**0.1606**		**1,470.5923**	**1,470.5923**	**0.4756**		**1,482.4827**

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	lb/day										lb/day					
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
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
Worker	0.4031	0.2209	2.8228	0.0101	1.2322	7.6400e-003	1.2399	0.3268	7.0300e-003	0.3339		1,005.0515	1,005.0515	0.0232		1,005.6304
Total	**0.4031**	**0.2209**	**2.8228**	**0.0101**	**1.2322**	**7.6400e-003**	**1.2399**	**0.3268**	**7.0300e-003**	**0.3339**		**1,005.0515**	**1,005.0515**	**0.0232**		**1,005.6304**

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	lb/day										lb/day					
Off-Road	0.1902	0.9240	7.9449	0.0152		0.0260	0.0260		0.0259	0.0259	0.0000	1,470.5922	1,470.5922	0.4756		1,482.4827
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1902**	**0.9240**	**7.9449**	**0.0152**		**0.0260**	**0.0260**		**0.0259**	**0.0259**	**0.0000**	**1,470.5922**	**1,470.5922**	**0.4756**		**1,482.4827**

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	lb/day										lb/day					
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
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
Worker	0.4031	0.2209	2.8228	0.0101	0.9538	7.6400e-003	0.9614	0.2585	7.0300e-003	0.2655		1,005.0515	1,005.0515	0.0232		1,005.6304
Total	**0.4031**	**0.2209**	**2.8228**	**0.0101**	**0.9538**	**7.6400e-003**	**0.9614**	**0.2585**	**7.0300e-003**	**0.2655**		**1,005.0515**	**1,005.0515**	**0.0232**		**1,005.6304**

3.10 Phase 2 Surface Improvements - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.5923	1,470.5923	0.4756		1,482.4827
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6138**	**4.1849**	**5.3019**	**0.0152**		**0.1746**	**0.1746**		**0.1606**	**0.1606**		**1,470.5923**	**1,470.5923**	**0.4756**		**1,482.4827**

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	lb/day										lb/day					
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

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
Worker	0.3853	0.2062	2.6645	9.7400e-003	1.2322	7.2300e-003	1.2395	0.3268	6.6500e-003	0.3335		971.4010	971.4010	0.0217		971.9433
Total	**0.3853**	**0.2062**	**2.6645**	**9.7400e-003**	**1.2322**	**7.2300e-003**	**1.2395**	**0.3268**	**6.6500e-003**	**0.3335**		**971.4010**	**971.4010**	**0.0217**		**971.9433**

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	lb/day										lb/day					
Off-Road	0.1902	0.9240	7.9449	0.0152		0.0260	0.0260		0.0259	0.0259	0.0000	1,470.5922	1,470.5922	0.4756		1,482.4827
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1902**	**0.9240**	**7.9449**	**0.0152**		**0.0260**	**0.0260**		**0.0259**	**0.0259**	**0.0000**	**1,470.5922**	**1,470.5922**	**0.4756**		**1,482.4827**

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	lb/day										lb/day					
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
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
Worker	0.3853	0.2062	2.6645	9.7400e-003	0.9538	7.2300e-003	0.9610	0.2585	6.6500e-003	0.2652		971.4010	971.4010	0.0217		971.9433
Total	**0.3853**	**0.2062**	**2.6645**	**9.7400e-003**	**0.9538**	**7.2300e-003**	**0.9610**	**0.2585**	**6.6500e-003**	**0.2652**		**971.4010**	**971.4010**	**0.0217**		**971.9433**

3.11 Phase 3 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6895	0.0000	8.6895	2.3348	0.0000	2.3348			0.0000			0.0000
Off-Road	1.2681	11.9786	14.6445	0.0245		0.4998	0.4998		0.4598	0.4598		2,371.8801	2,371.8801	0.7671		2,391.0580
Total	**1.2681**	**11.9786**	**14.6445**	**0.0245**	**8.6895**	**0.4998**	**9.1893**	**2.3348**	**0.4598**	**2.7946**		**2,371.8801**	**2,371.8801**	**0.7671**		**2,391.0580**

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	lb/day										lb/day					
Hauling	1.5700e-003	0.0861	0.0175	1.9000e-004	2.2092	6.0000e-005	2.2092	0.2208	5.0000e-005	0.2208		20.7608	20.7608	2.1400e-003		20.8143
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
Worker	0.0134	7.3600e-003	0.0941	3.4000e-004	0.0411	2.5000e-004	0.0413	0.0109	2.3000e-004	0.0111		33.5017	33.5017	7.7000e-004		33.5210
Total	**0.0150**	**0.0935**	**0.1115**	**5.3000e-004**	**2.2502**	**3.1000e-004**	**2.2506**	**0.2317**	**2.8000e-004**	**0.2320**		**54.2625**	**54.2625**	**2.9100e-003**		**54.3353**

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	lb/day										lb/day					
Fugitive Dust					2.1350	0.0000	2.1350	0.5737	0.0000	0.5737			0.0000			0.0000

Off-Road	0.4568	3.2604	14.5581	0.0245		0.1222	0.1222		0.1149	0.1149	0.0000	2,371.8801	2,371.8801	0.7671		2,391.0580
Total	**0.4568**	**3.2604**	**14.5581**	**0.0245**	**2.1350**	**0.1222**	**2.2572**	**0.5737**	**0.1149**	**0.6886**	**0.0000**	**2,371.8801**	**2,371.8801**	**0.7671**		**2,391.0580**

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	lb/day										lb/day					
Hauling	1.5700e-003	0.0861	0.0175	1.9000e-004	0.4744	6.0000e-005	0.4745	0.0476	5.0000e-005	0.0476		20.7608	20.7608	2.1400e-003		20.8143
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
Worker	0.0134	7.3600e-003	0.0941	3.4000e-004	0.0318	2.5000e-004	0.0321	8.6200e-003	2.3000e-004	8.8500e-003		33.5017	33.5017	7.7000e-004		33.5210
Total	**0.0150**	**0.0935**	**0.1115**	**5.3000e-004**	**0.5062**	**3.1000e-004**	**0.5065**	**0.0562**	**2.8000e-004**	**0.0565**		**54.2625**	**54.2625**	**2.9100e-003**		**54.3353**

3.12 Phase 3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000
Off-Road	5.5684	52.6035	39.3894	0.1207		2.0263	2.0263		1.8642	1.8642		11,686.3962	11,686.3962	3.7796		11,780.8866
Total	**5.5684**	**52.6035**	**39.3894**	**0.1207**	**4.9019**	**2.0263**	**6.9282**	**2.4910**	**1.8642**	**4.3552**		**11,686.3962**	**11,686.3962**	**3.7796**		**11,780.8866**

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	lb/day										lb/day					
Hauling	0.0566	3.1142	0.6309	6.7700e-003	235.1690	2.0100e-003	235.1710	23.4885	1.9200e-003	23.4904		750.6323	750.6323	0.0774		752.5673
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
Worker	0.1962	0.1075	1.3738	4.9000e-003	0.5997	3.7200e-003	0.6034	0.1591	3.4200e-003	0.1625		489.1250	489.1250	0.0113		489.4068
Total	**0.2528**	**3.2217**	**2.0047**	**0.0117**	**235.7687**	**5.7300e-003**	**235.7744**	**23.6476**	**5.3400e-003**	**23.6529**		**1,239.7573**	**1,239.7573**	**0.0887**		**1,241.9740**

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	lb/day										lb/day					
Fugitive Dust					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000			0.0000
Off-Road	1.4875	6.4798	54.2732	0.1207		0.1999	0.1999		0.1997	0.1997	0.0000	11,686.3962	11,686.3962	3.7796		11,780.8866
Total	**1.4875**	**6.4798**	**54.2732**	**0.1207**	**1.2044**	**0.1999**	**1.4043**	**0.6121**	**0.1997**	**0.8118**	**0.0000**	**11,686.3962**	**11,686.3962**	**3.7796**		**11,780.8866**

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	lb/day										lb/day					
Hauling	0.0566	3.1142	0.6309	6.7700e-003	50.4678	2.0100e-003	50.4698	5.0469	1.9200e-003	5.0488		750.6323	750.6323	0.0774		752.5673

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
Worker	0.1962	0.1075	1.3738	4.9000e-003	0.4642	3.7200e-003	0.4679	0.1258	3.4200e-003	0.1292		489.1250	489.1250	0.0113		489.4068
Total	**0.2528**	**3.2217**	**2.0047**	**0.0117**	**50.9320**	**5.7300e-003**	**50.9377**	**5.1727**	**5.3400e-003**	**5.1780**		**1,239.7573**	**1,239.7573**	**0.0887**		**1,241.9740**

3.12 Phase 3 Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000
Off-Road	5.5684	52.6035	39.3894	0.1207		2.0263	2.0263		1.8642	1.8642		11,686.3962	11,686.3962	3.7796		11,780.8866
Total	**5.5684**	**52.6035**	**39.3894**	**0.1207**	**4.9019**	**2.0263**	**6.9282**	**2.4910**	**1.8642**	**4.3552**		**11,686.3962**	**11,686.3962**	**3.7796**		**11,780.8866**

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	lb/day										lb/day					
Hauling	0.0557	3.0723	0.6352	6.7100e-003	146.8769	1.9300e-003	146.8788	14.6723	1.8400e-003	14.6741		744.8411	744.8411	0.0760		746.7413
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
Worker	0.1875	0.1004	1.2967	4.7400e-003	0.5997	3.5200e-003	0.6032	0.1591	3.2400e-003	0.1623		472.7485	472.7485	0.0106		473.0124
Total	**0.2432**	**3.1726**	**1.9320**	**0.0115**	**147.4766**	**5.4500e-003**	**147.4820**	**14.8314**	**5.0800e-003**	**14.8364**		**1,217.5896**	**1,217.5896**	**0.0866**		**1,219.7537**

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	lb/day										lb/day					
Fugitive Dust					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000			0.0000
Off-Road	1.4875	6.4798	54.2732	0.1207		0.1999	0.1999		0.1997	0.1997	0.0000	11,686.3962	11,686.3962	3.7796		11,780.8866
Total	**1.4875**	**6.4798**	**54.2732**	**0.1207**	**1.2044**	**0.1999**	**1.4043**	**0.6121**	**0.1997**	**0.8118**	**0.0000**	**11,686.3962**	**11,686.3962**	**3.7796**		**11,780.8866**

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	lb/day										lb/day					
Hauling	0.0557	3.0723	0.6352	6.7100e-003	31.5271	1.9300e-003	31.5290	3.1551	1.8400e-003	3.1570		744.8411	744.8411	0.0760		746.7413
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
Worker	0.1875	0.1004	1.2967	4.7400e-003	0.4642	3.5200e-003	0.4677	0.1258	3.2400e-003	0.1290		472.7485	472.7485	0.0106		473.0124
Total	**0.2432**	**3.1726**	**1.9320**	**0.0115**	**31.9913**	**5.4500e-003**	**31.9967**	**3.2809**	**5.0800e-003**	**3.2860**		**1,217.5896**	**1,217.5896**	**0.0866**		**1,219.7537**

3.12 Phase 3 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000

Off-Road	5.5684	52.6035	39.3894	0.1207		2.0263	2.0263		1.8642	1.8642		11,686.3962	11,686.3962	3.7796		11,780.8866
Total	**5.5684**	**52.6035**	**39.3894**	**0.1207**	**4.9019**	**2.0263**	**6.9282**	**2.4910**	**1.8642**	**4.3552**		**11,686.3962**	**11,686.3962**	**3.7796**		**11,780.8866**

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	lb/day										lb/day					
Hauling	0.0549	3.0354	0.6431	6.6500e-003	684.4644	1.8500e-003	684.4662	68.3519	1.7700e-003	68.3536		739.6871	739.6871	0.0747		741.5553
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
Worker	0.1785	0.0940	1.2297	4.5900e-003	0.5997	3.2600e-003	0.6029	0.1591	3.0000e-003	0.1621		458.3863	458.3863	9.9500e-003		458.6351
Total	**0.2334**	**3.1294**	**1.8728**	**0.0112**	**685.0641**	**5.1100e-003**	**685.0692**	**68.5109**	**4.7700e-003**	**68.5157**		**1,198.0734**	**1,198.0734**	**0.0847**		**1,200.1904**

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	lb/day										lb/day					
Fugitive Dust					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000			0.0000
Off-Road	1.4875	6.4798	54.2732	0.1207		0.1999	0.1999		0.1997	0.1997	0.0000	11,686.3962	11,686.3962	3.7796		11,780.8866
Total	**1.4875**	**6.4798**	**54.2732**	**0.1207**	**1.2044**	**0.1999**	**1.4043**	**0.6121**	**0.1997**	**0.8118**	**0.0000**	**11,686.3962**	**11,686.3962**	**3.7796**		**11,780.8866**

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	lb/day										lb/day					
Hauling	0.0549	3.0354	0.6431	6.6500e-003	146.8520	1.8500e-003	146.8539	14.6736	1.7700e-003	14.6754		739.6871	739.6871	0.0747		741.5553
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
Worker	0.1785	0.0940	1.2297	4.5900e-003	0.4642	3.2600e-003	0.4674	0.1258	3.0000e-003	0.1288		458.3863	458.3863	9.9500e-003		458.6351
Total	**0.2334**	**3.1294**	**1.8728**	**0.0112**	**147.3162**	**5.1100e-003**	**147.3213**	**14.7994**	**4.7700e-003**	**14.8042**		**1,198.0734**	**1,198.0734**	**0.0847**		**1,200.1904**

3.13 Phase 2 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.5112	3,608.5112	0.9412		3,632.0412
Total	**1.7971**	**15.0997**	**20.7931**	**0.0378**		**0.6381**	**0.6381**		**0.5979**	**0.5979**		**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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

Vendor	0.3265	11.9754	3.4801	0.0420	1.1170	0.0136	1.1306	0.3215	0.0130	0.3345		4,556.9474	4,556.9474	0.2955		4,564.3345
Worker	1.5801	0.8659	11.0653	0.0395	4.8303	0.0300	4.8602	1.2812	0.0276	1.3088		3,939.8017	3,939.8017	0.0908		3,942.0710
Total	**1.9065**	**12.8413**	**14.5454**	**0.0815**	**5.9473**	**0.0436**	**5.9908**	**1.6028**	**0.0406**	**1.6433**		**8,496.7491**	**8,496.7491**	**0.3863**		**8,506.4055**

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	lb/day										lb/day					
Off-Road	1.3576	11.2661	22.6037	0.0378		0.4707	0.4707		0.4460	0.4460	0.0000	3,608.5112	3,608.5112	0.9412		3,632.0412
Total	**1.3576**	**11.2661**	**22.6037**	**0.0378**		**0.4707**	**0.4707**		**0.4460**	**0.4460**	**0.0000**	**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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
Vendor	0.3265	11.9754	3.4801	0.0420	0.9100	0.0136	0.9235	0.2707	0.0130	0.2837		4,556.9474	4,556.9474	0.2955		4,564.3345
Worker	1.5801	0.8659	11.0653	0.0395	3.7388	0.0300	3.7688	1.0133	0.0276	1.0409		3,939.8017	3,939.8017	0.0908		3,942.0710
Total	**1.9065**	**12.8413**	**14.5454**	**0.0815**	**4.6488**	**0.0436**	**4.6923**	**1.2840**	**0.0406**	**1.3246**		**8,496.7491**	**8,496.7491**	**0.3863**		**8,506.4055**

3.13 Phase 2 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.5112	3,608.5112	0.9412		3,632.0412
Total	**1.7971**	**15.0997**	**20.7931**	**0.0378**		**0.6381**	**0.6381**		**0.5979**	**0.5979**		**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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
Vendor	0.3193	11.8105	3.4388	0.0418	1.1170	0.0133	1.1303	0.3215	0.0127	0.3342		4,532.6564	4,532.6564	0.2930		4,539.9818
Worker	1.5105	0.8083	10.4448	0.0382	4.8303	0.0283	4.8586	1.2812	0.0261	1.3073		3,807.8920	3,807.8920	0.0850		3,810.0176
Total	**1.8299**	**12.6188**	**13.8836**	**0.0799**	**5.9473**	**0.0416**	**5.9889**	**1.6028**	**0.0388**	**1.6415**		**8,340.5484**	**8,340.5484**	**0.3780**		**8,349.9994**

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	lb/day										lb/day					
Off-Road	1.3576	11.2661	22.6037	0.0378		0.4707	0.4707		0.4460	0.4460	0.0000	3,608.5112	3,608.5112	0.9412		3,632.0412

Total	**1.3576**	**11.2661**	**22.6037**	**0.0378**		**0.4707**	**0.4707**		**0.4460**	**0.4460**	**0.0000**	**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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
Vendor	0.3193	11.8105	3.4388	0.0418	0.9100	0.0133	0.9232	0.2707	0.0127	0.2834		4,532.6564	4,532.6564	0.2930		4,539.9818
Worker	1.5105	0.8083	10.4448	0.0382	3.7388	0.0283	3.7672	1.0133	0.0261	1.0394		3,807.8920	3,807.8920	0.0850		3,810.0176
Total	**1.8299**	**12.6188**	**13.8836**	**0.0799**	**4.6488**	**0.0416**	**4.6904**	**1.2840**	**0.0388**	**1.3228**		**8,340.5484**	**8,340.5484**	**0.3780**		**8,349.9994**

3.13 Phase 2 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.5112	3,608.5112	0.9412		3,632.0412
Total	**1.7971**	**15.0997**	**20.7931**	**0.0378**		**0.6381**	**0.6381**		**0.5979**	**0.5979**		**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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
Vendor	0.3137	11.6727	3.4182	0.0415	1.1170	0.0130	1.1300	0.3215	0.0125	0.3340		4,512.2947	4,512.2947	0.2908		4,519.5640
Worker	1.4376	0.7575	9.9048	0.0370	4.8303	0.0263	4.8565	1.2812	0.0242	1.3054		3,692.2073	3,692.2073	0.0802		3,694.2111
Total	**1.7513**	**12.4302**	**13.3230**	**0.0785**	**5.9473**	**0.0393**	**5.9865**	**1.6028**	**0.0366**	**1.6394**		**8,204.5019**	**8,204.5019**	**0.3709**		**8,213.7752**

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	lb/day										lb/day					
Off-Road	1.3576	11.2661	22.6037	0.0378		0.4707	0.4707		0.4460	0.4460	0.0000	3,608.5112	3,608.5112	0.9412		3,632.0412
Total	**1.3576**	**11.2661**	**22.6037**	**0.0378**		**0.4707**	**0.4707**		**0.4460**	**0.4460**	**0.0000**	**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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

Vendor	0.3137	11.6727	3.4182	0.0415	0.9100	0.0130	0.9230	0.2707	0.0125	0.2832		4,512.2947	4,512.2947	0.2908		4,519.5640
Worker	1.4376	0.7575	9.9048	0.0370	3.7388	0.0263	3.7651	1.0133	0.0242	1.0375		3,692.2073	3,692.2073	0.0802		3,694.2111
Total	**1.7513**	**12.4302**	**13.3230**	**0.0785**	**4.6488**	**0.0393**	**4.6880**	**1.2840**	**0.0366**	**1.3206**		**8,204.5019**	**8,204.5019**	**0.3709**		**8,213.7752**

3.13 Phase 2 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.5112	3,608.5112	0.9412		3,632.0412
Total	**1.7971**	**15.0997**	**20.7931**	**0.0378**		**0.6381**	**0.6381**		**0.5979**	**0.5979**		**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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
Vendor	0.3083	11.5308	3.3948	0.0413	1.1170	0.0127	1.1297	0.3215	0.0122	0.3337		4,492.3400	4,492.3400	0.2892		4,499.5691
Worker	1.3588	0.7107	9.3924	0.0360	4.8303	0.0244	4.8547	1.2812	0.0224	1.3036		3,590.5705	3,590.5705	0.0757		3,592.4618
Total	**1.6671**	**12.2415**	**12.7872**	**0.0773**	**5.9473**	**0.0371**	**5.9843**	**1.6028**	**0.0346**	**1.6373**		**8,082.9105**	**8,082.9105**	**0.3648**		**8,092.0309**

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	lb/day										lb/day					
Off-Road	1.3576	11.2661	22.6037	0.0378		0.4707	0.4707		0.4460	0.4460	0.0000	3,608.5112	3,608.5112	0.9412		3,632.0412
Total	**1.3576**	**11.2661**	**22.6037**	**0.0378**		**0.4707**	**0.4707**		**0.4460**	**0.4460**	**0.0000**	**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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
Vendor	0.3083	11.5308	3.3948	0.0413	0.9099	0.0127	0.9227	0.2707	0.0122	0.2829		4,492.3400	4,492.3400	0.2892		4,499.5691
Worker	1.3588	0.7107	9.3924	0.0360	3.7388	0.0244	3.7632	1.0133	0.0224	1.0357		3,590.5705	3,590.5705	0.0757		3,592.4618
Total	**1.6671**	**12.2415**	**12.7872**	**0.0773**	**4.6488**	**0.0371**	**4.6859**	**1.2840**	**0.0346**	**1.3186**		**8,082.9105**	**8,082.9105**	**0.3648**		**8,092.0309**

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	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	137.7703	0.0000	137.7703	33.8163	0.0000	33.8163		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	137.7703	0.0000	137.7703	33.8163	0.0000	33.8163		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
Apartments Low Rise	5,252.23	5,706.52	4837.79	15,012,965	15,012,965
Apartments Low Rise	2,866.65	3,114.60	2640.45	8,194,027	8,194,027
City Park	59.35	714.35	525.64	468,666	468,666
City Park	54.62	657.48	483.79	431,352	431,352
City Park	23.44	282.10	207.58	185,078	185,078
Elementary School	1,290.00	0.00	0.00	2,031,694	2,031,694
Regional Shopping Center	2,562.00	2,998.20	1514.40	4,338,828	4,338,828
Retirement Community	1,068.00	903.35	867.75	2,900,621	2,900,621
Single Family Housing	12,109.44	12,605.52	10964.64	34,311,512	34,311,512
User Defined Industrial	0.00	0.00	0.00		
Total	25,285.72	26,982.12	22,042.03	67,874,743	67,874,743

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Retirement Community	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
User Defined Industrial	9.50	7.30	7.30	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
Apartments Low Rise	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
City Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Elementary School	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Regional Shopping Center	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Retirement Community	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Single Family Housing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044		15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779
NaturalGas Unmitigated	1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044		15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779

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	lb/day										lb/day				
Apartments Low Rise	13378.3	0.1443	1.2329	0.5246	7.8700e-003		0.0997	0.0997		0.0997	0.0997	1,573.9204	1,573.9204	0.0302	0.0289	1,583.2735
Apartments Low Rise	24511.5	0.2643	2.2589	0.9612	0.0144		0.1826	0.1826		0.1826	0.1826	2,883.7117	2,883.7117	0.0553	0.0529	2,900.8482
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
Elementary School	1355.98	0.0146	0.1329	0.1117	8.0000e-004		0.0101	0.0101		0.0101	0.0101	159.5268	159.5268	3.0600e-003	2.9200e-003	160.4748
Regional Shopping Center	366.575	3.9500e-003	0.0359	0.0302	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003	43.1265	43.1265	8.3000e-004	7.9000e-004	43.3828
Retirement Community	13685.9	0.1476	1.2613	0.5367	8.0500e-003		0.1020	0.1020		0.1020	0.1020	1,610.1025	1,610.1025	0.0309	0.0295	1,619.6706
Single Family Housing	81501.8	0.8789	7.5110	3.1962	0.0479		0.6073	0.6073		0.6073	0.6073	9,588.4488	9,588.4488	0.1838	0.1758	9,645.4281
User Defined Industrial	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
Total		**1.4537**	**12.4329**	**5.3606**	**0.0793**		**1.0044**	**1.0044**		**1.0044**	**1.0044**	**15,858.8367**	**15,858.8367**	**0.3040**	**0.2908**	**15,953.0779**

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	lb/day										lb/day					
Apartments Low Rise	13.3783	0.1443	1.2329	0.5246	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,573.9204	1,573.9204	0.0302	0.0289	1,583.2735
Apartments Low Rise	24.5115	0.2643	2.2589	0.9612	0.0144		0.1826	0.1826		0.1826	0.1826		2,883.7117	2,883.7117	0.0553	0.0529	2,900.8482
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
Elementary School	1.35598	0.0146	0.1329	0.1117	8.0000e-004		0.0101	0.0101		0.0101	0.0101		159.5268	159.5268	3.0600e-003	2.9200e-003	160.4748
Regional Shopping Center	0.366575	3.9500e-003	0.0359	0.0302	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003		43.1265	43.1265	8.3000e-004	7.9000e-004	43.3828
Retirement Community	13.6859	0.1476	1.2613	0.5367	8.0500e-003		0.1020	0.1020		0.1020	0.1020		1,610.1025	1,610.1025	0.0309	0.0295	1,619.6706
Single Family Housing	81.5018	0.8789	7.5110	3.1962	0.0479		0.6073	0.6073		0.6073	0.6073		9,588.4488	9,588.4488	0.1838	0.1758	9,645.4281

User Defined Industrial	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
Total		**1.4537**	**12.4329**	**5.3606**	**0.0793**		**1.0044**	**1.0044**		**1.0044**	**1.0044**		**15,858.8367**	**15,858.8367**	**0.3040**	**0.2908**	**15,953.0779**

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	lb/day										lb/day					
Mitigated	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664
Unmitigated	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664

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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	88.3350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6,398.5814	124.9569	7,898.3537	14.3096		1,107.4245	1,107.4245		1,107.4245	1,107.4245	116,113.6062	48,696.3529	164,809.9591	107.1536	9.1332	170,210.4959
Landscaping	7.2594	2.7981	242.5562	0.0129		1.3496	1.3496		1.3496	1.3496		438.3289	438.3289	0.4177		448.7705

Total	**6,494.1758**	**127.7550**	**8,140.9098**	**14.3225**		**1,108.7741**	**1,108.7741**		**1,108.7741**	**1,108.7741**	**116,113.6062**	**49,134.6818**	**165,248.2880**	**107.5713**	**9.1332**	**170,659.2664**

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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	88.3350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6,398.5814	124.9569	7,898.3537	14.3096		1,107.4245	1,107.4245		1,107.4245	1,107.4245	116,113.6062	48,696.3529	164,809.9591	107.1536	9.1332	170,210.4959
Landscaping	7.2594	2.7981	242.5562	0.0129		1.3496	1.3496		1.3496	1.3496		438.3289	438.3289	0.4177		448.7705
Total	**6,494.1758**	**127.7550**	**8,140.9098**	**14.3225**		**1,108.7741**	**1,108.7741**		**1,108.7741**	**1,108.7741**	**116,113.6062**	**49,134.6818**	**165,248.2880**	**107.5713**	**9.1332**	**170,659.2664**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Fanita Ranch Construction - San Diego County APCD Air District, Annual

Fanita Ranch Construction Phase 3-4

San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	1,000.00	Student	19.20	83,603.37	0
User Defined Industrial	1.00	User Defined Unit	69.60	0.00	0
City Park	31.40	Acre	31.40	1,367,784.00	0
City Park	28.90	Acre	28.90	1,258,884.00	0
City Park	12.40	Acre	12.40	540,144.00	0
Apartments Low Rise	797.00	Dwelling Unit	63.90	797,000.00	2279
Apartments Low Rise	435.00	Dwelling Unit	27.19	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,272.00	Dwelling Unit	248.00	2,289,600.00	3638
Regional Shopping Center	60.00	1000sqft	9.31	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Value changed to reflect the Fanita Ranch Specific Plan

Construction Phase - Construction phasing provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

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Off-road Equipment - construction equipment list provided by developer

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Trips and VMT - assume 1 hauling trip per day, 10 miles per trip (cut and fill balanced onsite)

On-road Fugitive Dust - assume 50% onsite roadways for hauling trips are paved

Grading - grading acreage provided by developer

Construction Off-road Equipment Mitigation - clean engine and dust control

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	250	0
tblAreaCoating	Area_Nonresidential_Exterior	76802	0
tblAreaCoating	Area_Nonresidential_Interior	230405	0
tblAreaCoating	Area_Residential_Exterior	2677455	0
tblAreaCoating	Area_Residential_Interior	8032365	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	66.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	32.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	159.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	21.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	23.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	25.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstructionPhase	NumDays	930.00	480.00
tblConstructionPhase	NumDays	930.00	480.00
tblConstructionPhase	NumDays	660.00	280.00
tblConstructionPhase	NumDays	660.00	280.00

tblConstructionPhase	NumDays	660.00	280.00
tblConstructionPhase	NumDays	360.00	40.00
tblConstructionPhase	NumDays	360.00	40.00
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tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
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tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDT1	0.04	0.00
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tblFleetMix	LDT1	0.04	0.00
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tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00

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tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
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tblFleetMix	LHD2	5.2820e-003	0.00
tblFleetMix	LHD2	5.2820e-003	0.00
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tblFleetMix	LHD2	5.2820e-003	0.00
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tblFleetMix	MDV	0.10	0.00
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tblFleetMix	MH	7.0900e-004	0.00

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tblFleetMix	MH	7.0900e-004	0.00
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tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.9440e-003	0.00
tblFleetMix	OBUS	1.9440e-003	0.00
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tblFleetMix	OBUS	1.9440e-003	0.00
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tblFleetMix	SBUS	8.0000e-004	0.00
tblFleetMix	SBUS	8.0000e-004	0.00
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tblFleetMix	SBUS	8.0000e-004	0.00
tblFleetMix	SBUS	8.0000e-004	0.00
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tblFleetMix	SBUS	8.0000e-004	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
tblFleetMix	UBUS	1.6320e-003	0.00
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tblGrading	AcresOfGrading	1,671.00	208.50

tblGrading	AcresOfGrading	0.00	208.50
tblGrading	AcresOfGrading	0.00	208.50
tblLandUse	LotAcreage	1.92	19.20
tblLandUse	LotAcreage	0.00	69.60
tblLandUse	LotAcreage	49.81	63.90
tblLandUse	LotAcreage	89.00	30.90
tblLandUse	LotAcreage	412.99	248.00
tblLandUse	LotAcreage	1.38	9.31
tblOffRoadEquipment	HorsePower	158.00	760.00
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tblOffRoadEquipment	HorsePower	80.00	36.00
tblOffRoadEquipment	HorsePower	80.00	120.00
tblOffRoadEquipment	HorsePower	80.00	78.00

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tblOffRoadEquipment	HorsePower	80.00	102.00
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tblOffRoadEquipment	HorsePower	80.00	36.00
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tblOffRoadEquipment	HorsePower	187.00	150.00
tblOffRoadEquipment	HorsePower	187.00	150.00

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tblOffRoadEquipment	HorsePower	402.00	170.00
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tblOffRoadEquipment	HorsePower	402.00	450.00

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tblOffRoadEquipment	HorsePower	97.00	78.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

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tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	1.10
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.90
tblOffRoadEquipment	UsageHours	8.00	0.90
tblOffRoadEquipment	UsageHours	8.00	0.90
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tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60

tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
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tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	1.10
tblOffRoadEquipment	UsageHours	8.00	1.10
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	1.10
tblOffRoadEquipment	UsageHours	8.00	1.10
tblOffRoadEquipment	UsageHours	8.00	4.20
tblOffRoadEquipment	UsageHours	8.00	4.20
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	0.70
tblOffRoadEquipment	UsageHours	8.00	0.70
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00

tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripNumber	0.00	320.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	17,355.00
tblTripsAndVMT	HaulingTripNumber	0.00	280.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	7,856.00
tblTripsAndVMT	VendorTripNumber	858.00	312.00
tblTripsAndVMT	VendorTripNumber	858.00	147.00
tblTripsAndVMT	VendorTripNumber	858.00	235.00
tblTripsAndVMT	VendorTripNumber	858.00	165.00
tblTripsAndVMT	WorkerTripNumber	3,050.00	1,099.00
tblTripsAndVMT	WorkerTripNumber	3,050.00	525.00
tblTripsAndVMT	WorkerTripNumber	3,050.00	838.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00
tblTripsAndVMT	WorkerTripNumber	3,050.00	588.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
2023	0.2365	1.6805	2.0290	7.5100e-003	0.4082	0.0367	0.4448	0.1102	0.0343	0.1446	0.0000	695.8397	695.8397	0.0626	0.0000	697.4044
2024	0.7847	5.6243	6.8446	0.0257	1.4258	0.1137	1.5395	0.3851	0.1064	0.4915	0.0000	2,387.5323	2,387.5323	0.2154	0.0000	2,392.9173
2025	0.7431	5.3485	6.5936	0.0252	1.4204	0.0997	1.5201	0.3836	0.0933	0.4770	0.0000	2,336.0606	2,336.0606	0.2117	0.0000	2,341.3531
2026	1.4676	11.5439	12.1744	0.0428	19.5565	0.3190	19.8754	2.4528	0.2954	2.7482	0.0000	3,912.3470	3,912.3470	0.6019	0.0000	3,927.3940
2027	1.4525	12.4018	11.8001	0.0394	19.2467	0.3877	19.6344	2.3904	0.3586	2.7489	0.0000	3,564.3818	3,564.3818	0.6941	0.0000	3,581.7340
2028	1.2346	9.7481	10.8720	0.0341	26.8742	0.3208	27.1950	3.0447	0.2966	3.3414	0.0000	3,064.8674	3,064.8674	0.6362	0.0000	3,080.7712
2029	1.5339	12.8916	12.8196	0.0412	9.9719	0.4226	10.3945	1.4682	0.3910	1.8592	0.0000	3,711.5576	3,711.5576	0.7579	0.0000	3,730.5061
2030	1.2008	5.3718	9.1647	0.0324	9.4687	0.1197	9.5884	1.2437	0.1193	1.3630	0.0000	3,072.1007	3,072.1007	0.1230	0.0000	3,075.1763
2031	0.7969	5.0000	7.6340	0.0284	1.4991	0.0526	1.5517	0.4047	0.0520	0.4567	0.0000	2,634.1216	2,634.1216	0.1145	0.0000	2,636.9838
2032	0.5208	3.4583	5.0761	0.0196	1.0847	0.0334	1.1181	0.2929	0.0330	0.3260	0.0000	1,822.4480	1,822.4480	0.0800	0.0000	1,824.4477
2033	0.2517	1.7051	2.4882	9.6800e-003	0.5382	0.0164	0.5546	0.1453	0.0163	0.1616	0.0000	898.9289	898.9289	0.0394	0.0000	899.9135
Maximum	**1.5339**	**12.8916**	**12.8196**	**0.0428**	**26.8742**	**0.4226**	**27.1950**	**3.0447**	**0.3910**	**3.3414**	**0.0000**	**3,912.3470**	**3,912.3470**	**0.7579**	**0.0000**	**3,927.3940**

Mitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
2023	0.2138	1.4702	2.1051	7.5100e-003	0.3195	0.0266	0.3461	0.0885	0.0251	0.1136	0.0000	695.8396	695.8396	0.0626	0.0000	697.4043
2024	0.7096	4.9608	7.1074	0.0257	1.1160	0.0831	1.1991	0.3091	0.0785	0.3876	0.0000	2,387.5318	2,387.5318	0.2154	0.0000	2,392.9168

2025	0.6738	4.7703	6.8599	0.0252	1.1117	0.0737	1.1854	0.3079	0.0696	0.3775	0.0000	2,336.0601	2,336.0601	0.2117	0.0000	2,341.3526
2026	0.9874	6.5414	14.0095	0.0428	5.2410	0.1143	5.3553	0.8205	0.1091	0.9296	0.0000	3,912.3451	3,912.3451	0.6019	0.0000	3,927.3921
2027	0.8250	5.5770	14.2257	0.0394	4.8416	0.1139	4.9555	0.7162	0.1092	0.8254	0.0000	3,564.3794	3,564.3794	0.6941	0.0000	3,581.7316
2028	0.7201	4.4574	13.4191	0.0341	6.3739	0.1049	6.4788	0.8244	0.1004	0.9248	0.0000	3,064.8651	3,064.8651	0.6362	0.0000	3,080.7690
2029	0.8622	5.6931	15.5846	0.0412	2.8656	0.1327	2.9983	0.5218	0.1271	0.6489	0.0000	3,711.5550	3,711.5550	0.7579	0.0000	3,730.5034
2030	0.6442	3.5604	11.8257	0.0324	2.6403	0.0496	2.6900	0.4379	0.0492	0.4871	0.0000	3,072.0984	3,072.0984	0.1230	0.0000	3,075.1740
2031	0.6543	4.5753	8.0711	0.0284	1.1730	0.0398	1.2128	0.3247	0.0392	0.3639	0.0000	2,634.1206	2,634.1206	0.1145	0.0000	2,636.9827
2032	0.4341	3.1986	5.3139	0.0196	0.8489	0.0257	0.8746	0.2351	0.0253	0.2604	0.0000	1,822.4474	1,822.4474	0.0800	0.0000	1,824.4470
2033	0.2087	1.5762	2.6062	9.6800e-003	0.4212	0.0126	0.4338	0.1166	0.0124	0.1291	0.0000	898.9286	898.9286	0.0394	0.0000	899.9132
Maximum	**0.9874**	**6.5414**	**15.5846**	**0.0428**	**6.3739**	**0.1327**	**6.4788**	**0.8244**	**0.1271**	**0.9296**	**0.0000**	**3,912.3451**	**3,912.3451**	**0.7579**	**0.0000**	**3,927.3921**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**32.18**	**37.97**	**-15.58**	**0.00**	**70.54**	**59.58**	**70.32**	**61.84**	**58.51**	**61.41**	**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)
9	**7-1-2023**	**9-30-2023**	0.2355	0.2066
10	**10-1-2023**	**12-31-2023**	1.6881	1.4839
11	**1-1-2024**	**3-31-2024**	1.5980	1.4147
12	**4-1-2024**	**6-30-2024**	1.5777	1.3944
13	**7-1-2024**	**9-30-2024**	1.5950	1.4097
14	**10-1-2024**	**12-31-2024**	1.6155	1.4303
15	**1-1-2025**	**3-31-2025**	1.5079	1.3484
16	**4-1-2025**	**6-30-2025**	1.5053	1.3441
17	**7-1-2025**	**9-30-2025**	1.5218	1.3588
18	**10-1-2025**	**12-31-2025**	1.5414	1.3784
19	**1-1-2026**	**3-31-2026**	1.5989	1.3640
20	**4-1-2026**	**6-30-2026**	2.8379	1.6253
21	**7-1-2026**	**9-30-2026**	3.7399	1.8020

22	**10-1-2026**	**12-31-2026**	4.7767	2.7061
23	**1-1-2027**	**3-31-2027**	4.5357	2.5348
24	**4-1-2027**	**6-30-2027**	3.0203	1.2532
25	**7-1-2027**	**9-30-2027**	3.0535	1.2670
26	**10-1-2027**	**12-31-2027**	3.2200	1.3361
27	**1-1-2028**	**3-31-2028**	3.1344	1.3429
28	**4-1-2028**	**6-30-2028**	1.4950	1.0484
29	**7-1-2028**	**9-30-2028**	2.7833	1.2999
30	**10-1-2028**	**12-31-2028**	3.6194	1.5084
31	**1-1-2029**	**3-31-2029**	4.0441	2.0438
32	**4-1-2029**	**6-30-2029**	4.0177	2.0193
33	**7-1-2029**	**9-30-2029**	3.0719	1.1960
34	**10-1-2029**	**12-31-2029**	3.2534	1.2710
35	**1-1-2030**	**3-31-2030**	2.1170	1.1028
36	**4-1-2030**	**6-30-2030**	1.9936	1.0826
37	**7-1-2030**	**9-30-2030**	1.0566	0.8364
38	**10-1-2030**	**12-31-2030**	1.3679	1.1634
39	**1-1-2031**	**3-31-2031**	1.8243	1.6159
40	**4-1-2031**	**6-30-2031**	1.7317	1.5696
41	**7-1-2031**	**9-30-2031**	1.2049	1.0971
42	**10-1-2031**	**12-31-2031**	1.0117	0.9248
43	**1-1-2032**	**3-31-2032**	0.9902	0.9043
44	**4-1-2032**	**6-30-2032**	0.9806	0.8946
45	**7-1-2032**	**9-30-2032**	0.9914	0.9045
46	**10-1-2032**	**12-31-2032**	1.0011	0.9142
47	**1-1-2033**	**3-31-2033**	0.9702	0.8852
48	**4-1-2033**	**6-30-2033**	0.9720	0.8861
49	**7-1-2033**	**9-30-2033**	0.0107	0.0097
		Highest	4.7767	2.7061

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	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.7962	1,847.0282	6,165.8244	4.0196	0.3397	6,367.5475
Energy	0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	8,734.2115	8,734.2115	0.2962	0.0990	8,771.1204
Mobile	0.0000	0.0000	0.0000	0.0000	21.8199	0.0000	21.8199	5.3558	0.0000	5.3558	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	510.4715	0.0000	510.4715	30.1680	0.0000	1,264.6716
Water						0.0000	0.0000		0.0000	0.0000	63.1360	1,633.6925	1,696.8285	6.5504	0.1667	1,910.2724
Total	**279.3816**	**7.6441**	**346.6409**	**0.6023**	**21.8199**	**45.7092**	**67.5290**	**5.3558**	**45.7092**	**51.0650**	**4,892.4037**	**12,214.9322**	**17,107.3359**	**41.0343**	**0.6054**	**18,313.6119**

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	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.7962	1,847.0282	6,165.8244	4.0196	0.3397	6,367.5475
Energy	0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	8,734.2115	8,734.2115	0.2962	0.0990	8,771.1204
Mobile	0.0000	0.0000	0.0000	0.0000	21.8199	0.0000	21.8199	5.3558	0.0000	5.3558	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	510.4715	0.0000	510.4715	30.1680	0.0000	1,264.6716
Water						0.0000	0.0000		0.0000	0.0000	63.1360	1,633.6925	1,696.8285	6.5504	0.1667	1,910.2724
Total	**279.3816**	**7.6441**	**346.6409**	**0.6023**	**21.8199**	**45.7092**	**67.5290**	**5.3558**	**45.7092**	**51.0650**	**4,892.4037**	**12,214.9322**	**17,107.3359**	**41.0343**	**0.6054**	**18,313.6119**

	ROG	NOx	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	Phase 1 Building Construction	Building Construction	9/18/2023	3/26/2027	5	920	
2	Phase 2 Surface Improvements	Paving	2/23/2026	3/19/2027	5	280	
3	Phase 3 Site Preparation	Site Preparation	3/24/2026	5/18/2026	5	40	
4	Phase 3 Grading	Grading	5/19/2026	3/20/2028	5	480	
5	Phase 2 Building Construction	Building Construction	9/28/2026	6/28/2029	5	720	
6	Phase 3 Utilities	Trenching	11/22/2027	12/14/2028	5	280	
7	Phase 3 Surface Improvements	Paving	5/22/2028	6/14/2029	5	280	
8	Phase 4 Site Preparation	Site Preparation	6/20/2028	8/11/2028	5	40	
9	Phase 4 Grading	Grading	8/14/2028	6/14/2030	5	480	
10	Phase 3 Building Construction	Building Construction	12/18/2028	7/25/2031	5	680	
11	Phase 4 Utilities	Trenching	8/20/2029	11/8/2030	5	320	
12	Phase 4 Surface Improvements	Paving	2/25/2030	3/21/2031	5	280	
13	Phase 4 Building Construction	Building Construction	11/25/2030	7/1/2033	5	680	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1 Building Construction	Cement and Mortar Mixers	1	3.00	505	0.56
Phase 1 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 1 Building Construction	Off-Highway Trucks	1	1.30	170	0.38
Phase 1 Building Construction	Off-Highway Trucks	5	1.00	300	0.38

Phase 1 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 2 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 2 Surface Improvements	Graders	1	0.60	150	0.41
Phase 2 Surface Improvements	Graders	1	0.60	150	0.41
Phase 2 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 2 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 2 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 2 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 2 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 2 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 2 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 2 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 3 Site Preparation	Rubber Tired Dozers	1	4.20	436	0.40
Phase 3 Site Preparation	Rubber Tired Loaders	1	4.20	249	0.36
Phase 3 Grading	Excavators	1	1.10	760	0.38
Phase 3 Grading	Graders	1	2.60	275	0.41
Phase 3 Grading	Graders	1	1.10	275	0.41
Phase 3 Grading	Off-Highway Trucks	3	2.60	300	0.38
Phase 3 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 3 Grading	Off-Highway Trucks	2	1.10	300	0.38
Phase 3 Grading	Plate Compactors	1	2.60	554	0.43
Phase 3 Grading	Rubber Tired Dozers	1	2.60	600	0.40
Phase 3 Grading	Rubber Tired Dozers	1	2.60	354	0.40
Phase 3 Grading	Rubber Tired Dozers	1	2.60	436	0.40

Phase 3 Grading	Rubber Tired Dozers	1	1.10	600	0.40
Phase 3 Grading	Rubber Tired Dozers	2	1.10	436	0.40
Phase 3 Grading	Scrapers	10	2.60	600	0.48
Phase 3 Grading	Tractors/Loaders/Backhoes	1	0.70	249	0.37
Phase 2 Building Construction	Cement and Mortar Mixers	1	2.00	505	0.56
Phase 2 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 2 Building Construction	Off-Highway Trucks	1	0.80	170	0.38
Phase 2 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 2 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 3 Utilities	Excavators	1	1.80	417	0.38
Phase 3 Utilities	Excavators	1	0.90	235	0.38
Phase 3 Utilities	Excavators	1	1.70	235	0.38
Phase 3 Utilities	Excavators	1	2.00	235	0.38
Phase 3 Utilities	Excavators	1	1.30	417	0.38
Phase 3 Utilities	Excavators	1	0.60	235	0.38
Phase 3 Utilities	Excavators	1	5.50	235	0.38
Phase 3 Utilities	Excavators	1	0.50	417	0.38
Phase 3 Utilities	Excavators	1	0.30	235	0.38
Phase 3 Utilities	Excavators	1	0.30	235	0.38
Phase 3 Utilities	Excavators	1	3.60	140	0.38
Phase 3 Utilities	Excavators	1	2.10	85	0.38
Phase 3 Utilities	Excavators	1	1.60	417	0.38
Phase 3 Utilities	Excavators	1	0.80	235	0.38
Phase 3 Utilities	Excavators	1	2.40	235	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.50	170	0.38

Phase 3 Utilities	Off-Highway Trucks	1	0.80	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	1.90	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.20	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.00	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.10	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.40	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.80	170	0.38
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.40	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	0.90	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.00	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.00	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	2.70	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	0.40	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	0.10	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	3.00	164	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.20	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.20	170	0.37
Phase 3 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 3 Surface Improvements	Graders	1	0.60	150	0.41
Phase 3 Surface Improvements	Graders	1	0.60	150	0.41
Phase 3 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 3 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 3 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 3 Surface Improvements	Rollers	1	0.60	102	0.38

Phase 3 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 3 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 3 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 3 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 3 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 3 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 3 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 4 Site Preparation	Rubber Tired Dozers	1	4.20	436	0.40
Phase 4 Site Preparation	Rubber Tired Loaders	1	4.20	249	0.36
Phase 4 Grading	Excavators	1	1.10	760	0.38
Phase 4 Grading	Graders	1	2.60	275	0.41
Phase 4 Grading	Graders	1	1.10	275	0.41
Phase 4 Grading	Off-Highway Trucks	3	2.60	300	0.38
Phase 4 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 4 Grading	Off-Highway Trucks	2	1.10	300	0.38
Phase 4 Grading	Plate Compactors	1	2.60	554	0.43
Phase 4 Grading	Rubber Tired Dozers	1	2.60	600	0.40
Phase 4 Grading	Rubber Tired Dozers	1	2.60	354	0.40
Phase 4 Grading	Rubber Tired Dozers	1	2.60	436	0.40
Phase 4 Grading	Rubber Tired Dozers	1	1.10	600	0.40
Phase 4 Grading	Rubber Tired Dozers	2	1.10	436	0.40
Phase 4 Grading	Scrapers	10	2.60	600	0.48
Phase 4 Grading	Tractors/Loaders/Backhoes	1	0.70	249	0.37
Phase 3 Building Construction	Cement and Mortar Mixers	1	2.00	505	0.56
Phase 3 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 3 Building Construction	Off-Highway Trucks	1	0.80	170	0.38
Phase 3 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 3 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 4 Utilities	Excavators	1	1.60	417	0.38
Phase 4 Utilities	Excavators	1	0.80	235	0.38
Phase 4 Utilities	Excavators	1	1.50	235	0.38
Phase 4 Utilities	Excavators	1	1.80	235	0.38

Phase 4 Utilities	Excavators	1	1.10	417	0.38
Phase 4 Utilities	Excavators	1	0.60	235	0.38
Phase 4 Utilities	Excavators	1	4.80	235	0.38
Phase 4 Utilities	Excavators	1	0.50	417	0.38
Phase 4 Utilities	Excavators	1	0.20	235	0.38
Phase 4 Utilities	Excavators	1	0.20	235	0.38
Phase 4 Utilities	Excavators	1	3.10	140	0.38
Phase 4 Utilities	Excavators	1	1.90	85	0.38
Phase 4 Utilities	Excavators	1	1.40	417	0.38
Phase 4 Utilities	Excavators	1	0.70	235	0.38
Phase 4 Utilities	Excavators	1	2.10	235	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.50	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.40	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.70	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	1.70	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.00	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.10	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.50	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	1.20	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.70	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.90	170	0.37

Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.80	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	2.40	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.30	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.10	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	2.70	164	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	1.10	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	1.10	170	0.37
Phase 4 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 4 Surface Improvements	Graders	1	0.60	150	0.41
Phase 4 Surface Improvements	Graders	1	0.60	150	0.41
Phase 4 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 4 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 4 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 4 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 4 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 4 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 4 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 4 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 4 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 4 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 4 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 4 Building Construction	Cement and Mortar Mixers	1	3.00	505	0.56
Phase 4 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 4 Building Construction	Off-Highway Trucks	1	1.30	170	0.38
Phase 4 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 4 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 1 Building Construction	Cranes	1	7.00	231	0.29

Phase 3 Building Construction	Cranes	1	7.00	231	0.29
Phase 4 Building Construction	Cranes	1	7.00	231	0.29
Phase 2 Building Construction	Cranes	1	7.00	231	0.29
Phase 1 Building Construction	Forklifts	3	8.00	89	0.20
Phase 3 Building Construction	Forklifts	3	8.00	89	0.20
Phase 4 Building Construction	Forklifts	3	8.00	89	0.20
Phase 2 Building Construction	Forklifts	3	8.00	89	0.20
Phase 1 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 3 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 4 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 3 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 4 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 2 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 3 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 4 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 1 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Building Construction	Welders	1	8.00	46	0.45
Phase 4 Building Construction	Welders	1	8.00	46	0.45
Phase 2 Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 1 Building Construction	18	1,099.00	312.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Grading	29	73.00	0.00	17,355.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Building Construction	18	588.00	165.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Utilities	43	108.00	0.00	280.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT

Phase 3 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Grading	29	73.00	0.00	7,856.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Building Construction	18	525.00	147.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Utilities	43	108.00	0.00	320.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Building Construction	18	838.00	235.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Phase 1 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0820	0.7034	0.8661	1.5300e-003		0.0334	0.0334		0.0313	0.0313	0.0000	132.9829	132.9829	0.0356	0.0000	133.8722
Total	**0.0820**	**0.7034**	**0.8661**	**1.5300e-003**		**0.0334**	**0.0334**		**0.0313**	**0.0313**	**0.0000**	**132.9829**	**132.9829**	**0.0356**	**0.0000**	**133.8722**

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	0.0260	0.8920	0.2765	3.0200e-003	0.0777	1.0700e-003	0.0787	0.0224	1.0200e-003	0.0234	0.0000	295.3607	295.3607	0.0201	0.0000	295.8628
Worker	0.1285	0.0851	0.8865	2.9600e-003	0.3305	2.2400e-003	0.3327	0.0878	2.0700e-003	0.0899	0.0000	267.4961	267.4961	6.9300e-003	0.0000	267.6694
Total	**0.1545**	**0.9771**	**1.1630**	**5.9800e-003**	**0.4082**	**3.3100e-003**	**0.4115**	**0.1102**	**3.0900e-003**	**0.1133**	**0.0000**	**562.8568**	**562.8568**	**0.0270**	**0.0000**	**563.5322**

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	0.0593	0.4931	0.9421	1.5300e-003		0.0233	0.0233		0.0221	0.0221	0.0000	132.9827	132.9827	0.0356	0.0000	133.8721
Total	**0.0593**	**0.4931**	**0.9421**	**1.5300e-003**		**0.0233**	**0.0233**		**0.0221**	**0.0221**	**0.0000**	**132.9827**	**132.9827**	**0.0356**	**0.0000**	**133.8721**

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	0.0260	0.8920	0.2765	3.0200e-003	0.0634	1.0700e-003	0.0645	0.0189	1.0200e-003	0.0199	0.0000	295.3607	295.3607	0.0201	0.0000	295.8628
Worker	0.1285	0.0851	0.8865	2.9600e-003	0.2561	2.2400e-003	0.2583	0.0696	2.0700e-003	0.0716	0.0000	267.4961	267.4961	6.9300e-003	0.0000	267.6694
Total	**0.1545**	**0.9771**	**1.1630**	**5.9800e-003**	**0.3195**	**3.3100e-003**	**0.3228**	**0.0885**	**3.0900e-003**	**0.0916**	**0.0000**	**562.8568**	**562.8568**	**0.0270**	**0.0000**	**563.5322**

3.2 Phase 1 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2703	2.2795	3.0174	5.3600e-003		0.1024	0.1024		0.0959	0.0959	0.0000	464.6319	464.6319	0.1239	0.0000	467.7285
Total	**0.2703**	**2.2795**	**3.0174**	**5.3600e-003**		**0.1024**	**0.1024**		**0.0959**	**0.0959**	**0.0000**	**464.6319**	**464.6319**	**0.1239**	**0.0000**	**467.7285**

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	0.0875	3.0722	0.9351	0.0105	0.2713	3.6400e-003	0.2749	0.0783	3.4700e-003	0.0818	0.0000	1,025.2355	1,025.2355	0.0693	0.0000	1,026.9679
Worker	0.4269	0.2726	2.8921	9.9200e-003	1.1545	7.6900e-003	1.1622	0.3068	7.0800e-003	0.3139	0.0000	897.6649	897.6649	0.0222	0.0000	898.2209
Total	**0.5144**	**3.3448**	**3.8272**	**0.0204**	**1.4258**	**0.0113**	**1.4371**	**0.3851**	**0.0106**	**0.3957**	**0.0000**	**1,922.9004**	**1,922.9004**	**0.0915**	**0.0000**	**1,925.1888**

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	0.1953	1.6160	3.2802	5.3600e-003		0.0717	0.0717		0.0680	0.0680	0.0000	464.6314	464.6314	0.1239	0.0000	467.7279
Total	**0.1953**	**1.6160**	**3.2802**	**5.3600e-003**		**0.0717**	**0.0717**		**0.0680**	**0.0680**	**0.0000**	**464.6314**	**464.6314**	**0.1239**	**0.0000**	**467.7279**

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	0.0875	3.0722	0.9351	0.0105	0.2214	3.6400e-003	0.2250	0.0661	3.4700e-003	0.0696	0.0000	1,025.2355	1,025.2355	0.0693	0.0000	1,026.9679
Worker	0.4269	0.2726	2.8921	9.9200e-003	0.8946	7.6900e-003	0.9023	0.2430	7.0800e-003	0.2501	0.0000	897.6649	897.6649	0.0222	0.0000	898.2209
Total	**0.5144**	**3.3448**	**3.8272**	**0.0204**	**1.1160**	**0.0113**	**1.1273**	**0.3091**	**0.0106**	**0.3196**	**0.0000**	**1,922.9004**	**1,922.9004**	**0.0915**	**0.0000**	**1,925.1888**

3.2 Phase 1 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2524	2.0822	2.9918	5.3400e-003		0.0887	0.0887		0.0830	0.0830	0.0000	462.8635	462.8635	0.1230	0.0000	465.9374

Total	**0.2524**	**2.0822**	**2.9918**	**5.3400e-003**		**0.0887**	**0.0887**		**0.0830**	**0.0830**	**0.0000**	**462.8635**	**462.8635**	**0.1230**	**0.0000**	**465.9374**

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	0.0846	3.0159	0.9127	0.0103	0.2703	3.5100e-003	0.2738	0.0780	3.3600e-003	0.0814	0.0000	1,015.1093	1,015.1093	0.0683	0.0000	1,016.8166
Worker	0.4061	0.2504	2.6891	9.4800e-003	1.1501	7.5400e-003	1.1577	0.3056	6.9400e-003	0.3126	0.0000	858.0879	858.0879	0.0205	0.0000	858.5991
Total	**0.4907**	**3.2663**	**3.6018**	**0.0198**	**1.4204**	**0.0111**	**1.4314**	**0.3836**	**0.0103**	**0.3939**	**0.0000**	**1,873.1972**	**1,873.1972**	**0.0887**	**0.0000**	**1,875.4157**

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	0.1832	1.5040	3.2581	5.3400e-003		0.0626	0.0626		0.0593	0.0593	0.0000	462.8629	462.8629	0.1230	0.0000	465.9369
Total	**0.1832**	**1.5040**	**3.2581**	**5.3400e-003**		**0.0626**	**0.0626**		**0.0593**	**0.0593**	**0.0000**	**462.8629**	**462.8629**	**0.1230**	**0.0000**	**465.9369**

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	0.0846	3.0159	0.9127	0.0103	0.2206	3.5100e-003	0.2241	0.0658	3.3600e-003	0.0692	0.0000	1,015.1093	1,015.1093	0.0683	0.0000	1,016.8166
Worker	0.4061	0.2504	2.6891	9.4800e-003	0.8912	7.5400e-003	0.8987	0.2421	6.9400e-003	0.2490	0.0000	858.0879	858.0879	0.0205	0.0000	858.5991
Total	**0.4907**	**3.2663**	**3.6018**	**0.0198**	**1.1117**	**0.0111**	**1.1228**	**0.3079**	**0.0103**	**0.3182**	**0.0000**	**1,873.1972**	**1,873.1972**	**0.0887**	**0.0000**	**1,875.4157**

3.2 Phase 1 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2524	2.0822	2.9918	5.3400e-003		0.0887	0.0887		0.0830	0.0830	0.0000	462.8635	462.8635	0.1230	0.0000	465.9374
Total	**0.2524**	**2.0822**	**2.9918**	**5.3400e-003**		**0.0887**	**0.0887**		**0.0830**	**0.0830**	**0.0000**	**462.8635**	**462.8635**	**0.1230**	**0.0000**	**465.9374**

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	0.0824	2.9727	0.8997	0.0103	0.2702	3.4100e-003	0.2737	0.0780	3.2600e-003	0.0813	0.0000	1,009.2985	1,009.2985	0.0676	0.0000	1,010.9882
Worker	0.3894	0.2329	2.5270	9.1400e-003	1.1501	7.3100e-003	1.1574	0.3056	6.7200e-003	0.3123	0.0000	826.6624	826.6624	0.0191	0.0000	827.1386
Total	**0.4718**	**3.2056**	**3.4266**	**0.0194**	**1.4203**	**0.0107**	**1.4311**	**0.3836**	**9.9800e-003**	**0.3936**	**0.0000**	**1,835.9609**	**1,835.9609**	**0.0866**	**0.0000**	**1,838.1268**

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	0.1832	1.5040	3.2581	5.3400e-003		0.0626	0.0626		0.0593	0.0593	0.0000	462.8629	462.8629	0.1230	0.0000	465.9369
Total	**0.1832**	**1.5040**	**3.2581**	**5.3400e-003**		**0.0626**	**0.0626**		**0.0593**	**0.0593**	**0.0000**	**462.8629**	**462.8629**	**0.1230**	**0.0000**	**465.9369**

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	0.0824	2.9727	0.8997	0.0103	0.2206	3.4100e-003	0.2240	0.0658	3.2600e-003	0.0691	0.0000	1,009.2985	1,009.2985	0.0676	0.0000	1,010.9882
Worker	0.3894	0.2329	2.5270	9.1400e-003	0.8912	7.3100e-003	0.8985	0.2421	6.7200e-003	0.2488	0.0000	826.6624	826.6624	0.0191	0.0000	827.1386
Total	**0.4718**	**3.2056**	**3.4266**	**0.0194**	**1.1117**	**0.0107**	**1.1225**	**0.3079**	**9.9800e-003**	**0.3179**	**0.0000**	**1,835.9609**	**1,835.9609**	**0.0866**	**0.0000**	**1,838.1268**

3.2 Phase 1 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0590	0.4867	0.6992	1.2500e-003		0.0207	0.0207		0.0194	0.0194	0.0000	108.1788	108.1788	0.0287	0.0000	108.8973
Total	**0.0590**	**0.4867**	**0.6992**	**1.2500e-003**		**0.0207**	**0.0207**		**0.0194**	**0.0194**	**0.0000**	**108.1788**	**108.1788**	**0.0287**	**0.0000**	**108.8973**

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	0.0188	0.6851	0.2077	2.3800e-003	0.0632	7.8000e-004	0.0639	0.0182	7.4000e-004	0.0190	0.0000	234.6446	234.6446	0.0157	0.0000	235.0360
Worker	0.0871	0.0508	0.5570	2.0600e-003	0.2688	1.6200e-003	0.2704	0.0714	1.4900e-003	0.0729	0.0000	186.7324	186.7324	4.1700e-003	0.0000	186.8366
Total	**0.1059**	**0.7359**	**0.7647**	**4.4400e-003**	**0.3320**	**2.4000e-003**	**0.3344**	**0.0897**	**2.2300e-003**	**0.0919**	**0.0000**	**421.3771**	**421.3771**	**0.0198**	**0.0000**	**421.8726**

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	0.0428	0.3515	0.7615	1.2500e-003		0.0146	0.0146		0.0139	0.0139	0.0000	108.1787	108.1787	0.0287	0.0000	108.8971

Total	**0.0428**	**0.3515**	**0.7615**	**1.2500e-003**		**0.0146**	**0.0146**		**0.0139**	**0.0139**	**0.0000**	**108.1787**	**108.1787**	**0.0287**	**0.0000**	**108.8971**

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	0.0188	0.6851	0.2077	2.3800e-003	0.0516	7.8000e-004	0.0523	0.0154	7.4000e-004	0.0161	0.0000	234.6446	234.6446	0.0157	0.0000	235.0360
Worker	0.0871	0.0508	0.5570	2.0600e-003	0.2083	1.6200e-003	0.2099	0.0566	1.4900e-003	0.0581	0.0000	186.7324	186.7324	4.1700e-003	0.0000	186.8366
Total	**0.1059**	**0.7359**	**0.7647**	**4.4400e-003**	**0.2598**	**2.4000e-003**	**0.2622**	**0.0720**	**2.2300e-003**	**0.0742**	**0.0000**	**421.3771**	**421.3771**	**0.0198**	**0.0000**	**421.8726**

3.3 Phase 2 Surface Improvements - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0688	0.4687	0.5938	1.7000e-003		0.0196	0.0196		0.0180	0.0180	0.0000	149.4191	149.4191	0.0483	0.0000	150.6272
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0688**	**0.4687**	**0.5938**	**1.7000e-003**		**0.0196**	**0.0196**		**0.0180**	**0.0180**	**0.0000**	**149.4191**	**149.4191**	**0.0483**	**0.0000**	**150.6272**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0456	0.0273	0.2960	1.0700e-003	0.1347	8.6000e-004	0.1356	0.0358	7.9000e-004	0.0366	0.0000	96.8343	96.8343	2.2300e-003	0.0000	96.8901
Total	**0.0456**	**0.0273**	**0.2960**	**1.0700e-003**	**0.1347**	**8.6000e-004**	**0.1356**	**0.0358**	**7.9000e-004**	**0.0366**	**0.0000**	**96.8343**	**96.8343**	**2.2300e-003**	**0.0000**	**96.8901**

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	0.0213	0.1037	0.8898	1.7000e-003		2.9200e-003	2.9200e-003		2.9100e-003	2.9100e-003	0.0000	149.4189	149.4189	0.0483	0.0000	150.6270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0213**	**0.1037**	**0.8898**	**1.7000e-003**		**2.9200e-003**	**2.9200e-003**		**2.9100e-003**	**2.9100e-003**	**0.0000**	**149.4189**	**149.4189**	**0.0483**	**0.0000**	**150.6270**

Mitigated Construction Off-Site

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

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0456	0.0273	0.2960	1.0700e-003	0.1044	8.6000e-004	0.1053	0.0284	7.9000e-004	0.0291	0.0000	96.8343	96.8343	2.2300e-003	0.0000	96.8901
Total	**0.0456**	**0.0273**	**0.2960**	**1.0700e-003**	**0.1044**	**8.6000e-004**	**0.1053**	**0.0284**	**7.9000e-004**	**0.0291**	**0.0000**	**96.8343**	**96.8343**	**2.2300e-003**	**0.0000**	**96.8901**

3.3 Phase 2 Surface Improvements - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0172	0.1172	0.1485	4.3000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	37.3548	37.3548	0.0121	0.0000	37.6568
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0172**	**0.1172**	**0.1485**	**4.3000e-004**		**4.8900e-003**	**4.8900e-003**		**4.5000e-003**	**4.5000e-003**	**0.0000**	**37.3548**	**37.3548**	**0.0121**	**0.0000**	**37.6568**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0109	6.3700e-003	0.0698	2.6000e-004	0.0337	2.0000e-004	0.0339	8.9500e-003	1.9000e-004	9.1400e-003	0.0000	23.3976	23.3976	5.2000e-004	0.0000	23.4107
Total	**0.0109**	**6.3700e-003**	**0.0698**	**2.6000e-004**	**0.0337**	**2.0000e-004**	**0.0339**	**8.9500e-003**	**1.9000e-004**	**9.1400e-003**	**0.0000**	**23.3976**	**23.3976**	**5.2000e-004**	**0.0000**	**23.4107**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.3300e-003	0.0259	0.2225	4.3000e-004		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	37.3547	37.3547	0.0121	0.0000	37.6568
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.3300e-003**	**0.0259**	**0.2225**	**4.3000e-004**		**7.3000e-004**	**7.3000e-004**		**7.3000e-004**	**7.3000e-004**	**0.0000**	**37.3547**	**37.3547**	**0.0121**	**0.0000**	**37.6568**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0109	6.3700e-003	0.0698	2.6000e-004	0.0261	2.0000e-004	0.0263	7.0900e-003	1.9000e-004	7.2700e-003	0.0000	23.3976	23.3976	5.2000e-004	0.0000	23.4107
Total	**0.0109**	**6.3700e-003**	**0.0698**	**2.6000e-004**	**0.0261**	**2.0000e-004**	**0.0263**	**7.0900e-003**	**1.9000e-004**	**7.2700e-003**	**0.0000**	**23.3976**	**23.3976**	**5.2000e-004**	**0.0000**	**23.4107**

3.4 Phase 3 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1738	0.0000	0.1738	0.0467	0.0000	0.0467	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0254	0.2396	0.2929	4.9000e-004		0.0100	0.0100		9.2000e-003	9.2000e-003	0.0000	43.0347	43.0347	0.0139	0.0000	43.3826
Total	**0.0254**	**0.2396**	**0.2929**	**4.9000e-004**	**0.1738**	**0.0100**	**0.1838**	**0.0467**	**9.2000e-003**	**0.0559**	**0.0000**	**43.0347**	**43.0347**	**0.0139**	**0.0000**	**43.3826**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.7100e-003	3.8000e-004	0.0000	0.0393	0.0000	0.0394	3.9300e-003	0.0000	3.9300e-003	0.0000	0.3664	0.3664	4.0000e-005	0.0000	0.3674
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.6000e-004	1.7600e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.1000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.5764	0.5764	1.0000e-005	0.0000	0.5767
Total	**3.0000e-004**	**1.8700e-003**	**2.1400e-003**	**1.0000e-005**	**0.0401**	**1.0000e-005**	**0.0402**	**4.1400e-003**	**0.0000**	**4.1500e-003**	**0.0000**	**0.9428**	**0.9428**	**5.0000e-005**	**0.0000**	**0.9441**

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					0.0427	0.0000	0.0427	0.0115	0.0000	0.0115	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.3600e-003	0.0680	0.2909	4.9000e-004		2.5600e-003	2.5600e-003		2.4100e-003	2.4100e-003	0.0000	43.0346	43.0346	0.0139	0.0000	43.3826
Total	**9.3600e-003**	**0.0680**	**0.2909**	**4.9000e-004**	**0.0427**	**2.5600e-003**	**0.0453**	**0.0115**	**2.4100e-003**	**0.0139**	**0.0000**	**43.0346**	**43.0346**	**0.0139**	**0.0000**	**43.3826**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.7100e-003	3.8000e-004	0.0000	8.4500e-003	0.0000	8.4500e-003	8.5000e-004	0.0000	8.5000e-004	0.0000	0.3664	0.3664	4.0000e-005	0.0000	0.3674
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.6000e-004	1.7600e-003	1.0000e-005	6.2000e-004	1.0000e-005	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5764	0.5764	1.0000e-005	0.0000	0.5767
Total	**3.0000e-004**	**1.8700e-003**	**2.1400e-003**	**1.0000e-005**	**9.0700e-003**	**1.0000e-005**	**9.0800e-003**	**1.0200e-003**	**0.0000**	**1.0200e-003**	**0.0000**	**0.9428**	**0.9428**	**5.0000e-005**	**0.0000**	**0.9441**

3.5 Phase 3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4725	0.0000	0.4725	0.2109	0.0000	0.2109	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4538	4.2872	3.2102	9.8400e-003		0.1651	0.1651		0.1519	0.1519	0.0000	864.0402	864.0402	0.2795	0.0000	871.0264
Total	**0.4538**	**4.2872**	**3.2102**	**9.8400e-003**	**0.4725**	**0.1651**	**0.6377**	**0.2109**	**0.1519**	**0.3628**	**0.0000**	**864.0402**	**864.0402**	**0.2795**	**0.0000**	**871.0264**

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	4.7800e-003	0.2524	0.0555	5.4000e-004	17.0668	1.7000e-004	17.0670	1.7048	1.6000e-004	1.7049	0.0000	53.9830	53.9830	5.9200e-003	0.0000	54.1309

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0162	9.6600e-003	0.1048	3.8000e-004	0.0477	3.0000e-004	0.0480	0.0127	2.8000e-004	0.0130	0.0000	34.2926	34.2926	7.9000e-004	0.0000	34.3124
Total	**0.0209**	**0.2620**	**0.1603**	**9.2000e-004**	**17.1145**	**4.7000e-004**	**17.1150**	**1.7175**	**4.4000e-004**	**1.7179**	**0.0000**	**88.2756**	**88.2756**	**6.7100e-003**	**0.0000**	**88.4433**

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					0.1161	0.0000	0.1161	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1213	0.5284	4.4229	9.8400e-003		0.0163	0.0163		0.0163	0.0163	0.0000	864.0392	864.0392	0.2795	0.0000	871.0254
Total	**0.1213**	**0.5284**	**4.4229**	**9.8400e-003**	**0.1161**	**0.0163**	**0.1324**	**0.0518**	**0.0163**	**0.0681**	**0.0000**	**864.0392**	**864.0392**	**0.2795**	**0.0000**	**871.0254**

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	4.7800e-003	0.2524	0.0555	5.4000e-004	3.6631	1.7000e-004	3.6633	0.3665	1.6000e-004	0.3666	0.0000	53.9830	53.9830	5.9200e-003	0.0000	54.1309
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0162	9.6600e-003	0.1048	3.8000e-004	0.0370	3.0000e-004	0.0373	0.0100	2.8000e-004	0.0103	0.0000	34.2926	34.2926	7.9000e-004	0.0000	34.3124
Total	**0.0209**	**0.2620**	**0.1603**	**9.2000e-004**	**3.7001**	**4.7000e-004**	**3.7006**	**0.3765**	**4.4000e-004**	**0.3769**	**0.0000**	**88.2756**	**88.2756**	**6.7100e-003**	**0.0000**	**88.4433**

3.5 Phase 3 Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6902	0.0000	0.6902	0.3305	0.0000	0.3305	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7267	6.8648	5.1403	0.0158		0.2644	0.2644		0.2433	0.2433	0.0000	1,383.5245	1,383.5245	0.4475	0.0000	1,394.7110
Total	**0.7267**	**6.8648**	**5.1403**	**0.0158**	**0.6902**	**0.2644**	**0.9546**	**0.3305**	**0.2433**	**0.5738**	**0.0000**	**1,383.5245**	**1,383.5245**	**0.4475**	**0.0000**	**1,394.7110**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.5300e-003	0.3986	0.0893	8.5000e-004	17.0679	2.6000e-004	17.0682	1.7052	2.5000e-004	1.7055	0.0000	85.7791	85.7791	9.3000e-003	0.0000	86.0115
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0248	0.0144	0.1583	5.9000e-004	0.0764	4.6000e-004	0.0769	0.0203	4.2000e-004	0.0207	0.0000	53.0708	53.0708	1.1800e-003	0.0000	53.1004
Total	**0.0323**	**0.4131**	**0.2476**	**1.4400e-003**	**17.1443**	**7.2000e-004**	**17.1451**	**1.7255**	**6.7000e-004**	**1.7262**	**0.0000**	**138.8499**	**138.8499**	**0.0105**	**0.0000**	**139.1119**

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					0.1696	0.0000	0.1696	0.0812	0.0000	0.0812	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.1942	0.8462	7.0821	0.0158		0.0261	0.0261		0.0261	0.0261	0.0000	1,383.5229	1,383.5229	0.4475	0.0000	1,394.7093
Total	**0.1942**	**0.8462**	**7.0821**	**0.0158**	**0.1696**	**0.0261**	**0.1957**	**0.0812**	**0.0261**	**0.1073**	**0.0000**	**1,383.5229**	**1,383.5229**	**0.4475**	**0.0000**	**1,394.7093**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.5300e-003	0.3986	0.0893	8.5000e-004	3.6643	2.6000e-004	3.6645	0.3669	2.5000e-004	0.3671	0.0000	85.7791	85.7791	9.3000e-003	0.0000	86.0115
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0248	0.0144	0.1583	5.9000e-004	0.0592	4.6000e-004	0.0597	0.0161	4.2000e-004	0.0165	0.0000	53.0708	53.0708	1.1800e-003	0.0000	53.1004
Total	**0.0323**	**0.4131**	**0.2476**	**1.4400e-003**	**3.7235**	**7.2000e-004**	**3.7242**	**0.3830**	**6.7000e-004**	**0.3836**	**0.0000**	**138.8499**	**138.8499**	**0.0105**	**0.0000**	**139.1119**

3.5 Phase 3 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2349	0.0000	0.2349	0.0803	0.0000	0.0803	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1559	1.4729	1.1029	3.3800e-003		0.0567	0.0567		0.0522	0.0522	0.0000	296.8482	296.8482	0.0960	0.0000	299.2483
Total	**0.1559**	**1.4729**	**1.1029**	**3.3800e-003**	**0.2349**	**0.0567**	**0.2917**	**0.0803**	**0.0522**	**0.1325**	**0.0000**	**296.8482**	**296.8482**	**0.0960**	**0.0000**	**299.2483**

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	1.5900e-003	0.0845	0.0194	1.8000e-004	17.0655	5.0000e-005	17.0656	1.7043	5.0000e-005	1.7044	0.0000	18.2790	18.2790	1.9600e-003	0.0000	18.3280
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	5.0600e-003	2.9000e-003	0.0322	1.2000e-004	0.0164	9.0000e-005	0.0165	4.3600e-003	8.0000e-005	4.4400e-003	0.0000	11.0405	11.0405	2.4000e-004	0.0000	11.0465
Total	**6.6500e-003**	**0.0874**	**0.0516**	**3.0000e-004**	**17.0819**	**1.4000e-004**	**17.0820**	**1.7087**	**1.3000e-004**	**1.7088**	**0.0000**	**29.3195**	**29.3195**	**2.2000e-003**	**0.0000**	**29.3745**

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					0.0577	0.0000	0.0577	0.0197	0.0000	0.0197	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0417	0.1816	1.5195	3.3800e-003		5.6000e-003	5.6000e-003		5.6000e-003	5.6000e-003	0.0000	296.8478	296.8478	0.0960	0.0000	299.2480
Total	**0.0417**	**0.1816**	**1.5195**	**3.3800e-003**	**0.0577**	**5.6000e-003**	**0.0633**	**0.0197**	**5.6000e-003**	**0.0253**	**0.0000**	**296.8478**	**296.8478**	**0.0960**	**0.0000**	**299.2480**

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	1.5900e-003	0.0845	0.0194	1.8000e-004	3.6618	5.0000e-005	3.6619	0.3660	5.0000e-005	0.3660	0.0000	18.2790	18.2790	1.9600e-003	0.0000	18.3280

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	5.0600e-003	2.9000e-003	0.0322	1.2000e-004	0.0127	9.0000e-005	0.0128	3.4500e-003	8.0000e-005	3.5300e-003	0.0000	11.0405	11.0405	2.4000e-004	0.0000	11.0465
Total	**6.6500e-003**	**0.0874**	**0.0516**	**3.0000e-004**	**3.6745**	**1.4000e-004**	**3.6747**	**0.3694**	**1.3000e-004**	**0.3696**	**0.0000**	**29.3195**	**29.3195**	**2.2000e-003**	**0.0000**	**29.3745**

3.6 Phase 2 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0620	0.5209	0.7174	1.3100e-003		0.0220	0.0220		0.0206	0.0206	0.0000	112.9387	112.9387	0.0295	0.0000	113.6752
Total	**0.0620**	**0.5209**	**0.7174**	**1.3100e-003**		**0.0220**	**0.0220**		**0.0206**	**0.0206**	**0.0000**	**112.9387**	**112.9387**	**0.0295**	**0.0000**	**113.6752**

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	0.0115	0.4156	0.1258	1.4300e-003	0.0378	4.8000e-004	0.0383	0.0109	4.6000e-004	0.0114	0.0000	141.1099	141.1099	9.4500e-003	0.0000	141.3462
Worker	0.0551	0.0329	0.3574	1.2900e-003	0.1627	1.0300e-003	0.1637	0.0432	9.5000e-004	0.0442	0.0000	116.9274	116.9274	2.6900e-003	0.0000	116.9948
Total	**0.0666**	**0.4486**	**0.4832**	**2.7200e-003**	**0.2005**	**1.5100e-003**	**0.2020**	**0.0541**	**1.4100e-003**	**0.0555**	**0.0000**	**258.0374**	**258.0374**	**0.0121**	**0.0000**	**258.3409**

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	0.0471	0.3919	0.7795	1.3100e-003		0.0164	0.0164		0.0155	0.0155	0.0000	112.9386	112.9386	0.0295	0.0000	113.6750
Total	**0.0471**	**0.3919**	**0.7795**	**1.3100e-003**		**0.0164**	**0.0164**		**0.0155**	**0.0155**	**0.0000**	**112.9386**	**112.9386**	**0.0295**	**0.0000**	**113.6750**

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	0.0115	0.4156	0.1258	1.4300e-003	0.0308	4.8000e-004	0.0313	9.2000e-003	4.6000e-004	9.6600e-003	0.0000	141.1099	141.1099	9.4500e-003	0.0000	141.3462
Worker	0.0551	0.0329	0.3574	1.2900e-003	0.1261	1.0300e-003	0.1271	0.0342	9.5000e-004	0.0352	0.0000	116.9274	116.9274	2.6900e-003	0.0000	116.9948
Total	**0.0666**	**0.4486**	**0.4832**	**2.7200e-003**	**0.1569**	**1.5100e-003**	**0.1584**	**0.0434**	**1.4100e-003**	**0.0449**	**0.0000**	**258.0374**	**258.0374**	**0.0121**	**0.0000**	**258.3409**

3.6 Phase 2 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2345	1.9705	2.7135	4.9400e-003		0.0833	0.0833		0.0780	0.0780	0.0000	427.2030	427.2030	0.1114	0.0000	429.9887

Total	**0.2345**	**1.9705**	**2.7135**	**4.9400e-003**		**0.0833**	**0.0833**		**0.0780**	**0.0780**	**0.0000**	**427.2030**	**427.2030**	**0.1114**	**0.0000**	**429.9887**

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	0.0426	1.5502	0.4699	5.3900e-003	0.1429	1.7600e-003	0.1447	0.0413	1.6800e-003	0.0429	0.0000	530.9464	530.9464	0.0354	0.0000	531.8319
Worker	0.1994	0.1163	1.2752	4.7200e-003	0.6153	3.7000e-003	0.6190	0.1635	3.4000e-003	0.1669	0.0000	427.4744	427.4744	9.5400e-003	0.0000	427.7129
Total	**0.2420**	**1.6665**	**1.7451**	**0.0101**	**0.7583**	**5.4600e-003**	**0.7637**	**0.2048**	**5.0800e-003**	**0.2099**	**0.0000**	**958.4207**	**958.4207**	**0.0450**	**0.0000**	**959.5448**

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	0.1781	1.4823	2.9486	4.9400e-003		0.0619	0.0619		0.0587	0.0587	0.0000	427.2025	427.2025	0.1114	0.0000	429.9882
Total	**0.1781**	**1.4823**	**2.9486**	**4.9400e-003**		**0.0619**	**0.0619**		**0.0587**	**0.0587**	**0.0000**	**427.2025**	**427.2025**	**0.1114**	**0.0000**	**429.9882**

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	0.0426	1.5502	0.4699	5.3900e-003	0.1166	1.7600e-003	0.1184	0.0348	1.6800e-003	0.0365	0.0000	530.9464	530.9464	0.0354	0.0000	531.8319
Worker	0.1994	0.1163	1.2752	4.7200e-003	0.4768	3.7000e-003	0.4805	0.1295	3.4000e-003	0.1329	0.0000	427.4744	427.4744	9.5400e-003	0.0000	427.7129
Total	**0.2420**	**1.6665**	**1.7451**	**0.0101**	**0.5935**	**5.4600e-003**	**0.5989**	**0.1643**	**5.0800e-003**	**0.1694**	**0.0000**	**958.4207**	**958.4207**	**0.0450**	**0.0000**	**959.5448**

3.6 Phase 2 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2336	1.9630	2.7031	4.9200e-003		0.0830	0.0830		0.0777	0.0777	0.0000	425.5662	425.5662	0.1110	0.0000	428.3412
Total	**0.2336**	**1.9630**	**2.7031**	**4.9200e-003**		**0.0830**	**0.0830**		**0.0777**	**0.0777**	**0.0000**	**425.5662**	**425.5662**	**0.1110**	**0.0000**	**428.3412**

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	0.0417	1.5261	0.4651	5.3400e-003	0.1424	1.7200e-003	0.1441	0.0411	1.6400e-003	0.0428	0.0000	526.5660	526.5660	0.0350	0.0000	527.4408
Worker	0.1892	0.1086	1.2037	4.5600e-003	0.6130	3.4100e-003	0.6164	0.1629	3.1400e-003	0.1660	0.0000	412.8855	412.8855	8.9600e-003	0.0000	413.1094
Total	**0.2309**	**1.6347**	**1.6688**	**9.9000e-003**	**0.7554**	**5.1300e-003**	**0.7605**	**0.2040**	**4.7800e-003**	**0.2088**	**0.0000**	**939.4515**	**939.4515**	**0.0440**	**0.0000**	**940.5502**

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	0.1775	1.4766	2.9373	4.9200e-003		0.0617	0.0617		0.0584	0.0584	0.0000	425.5657	425.5657	0.1110	0.0000	428.3407
Total	**0.1775**	**1.4766**	**2.9373**	**4.9200e-003**		**0.0617**	**0.0617**		**0.0584**	**0.0584**	**0.0000**	**425.5657**	**425.5657**	**0.1110**	**0.0000**	**428.3407**

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	0.0417	1.5261	0.4651	5.3400e-003	0.1162	1.7200e-003	0.1179	0.0347	1.6400e-003	0.0363	0.0000	526.5660	526.5660	0.0350	0.0000	527.4408
Worker	0.1892	0.1086	1.2037	4.5600e-003	0.4750	3.4100e-003	0.4784	0.1290	3.1400e-003	0.1322	0.0000	412.8855	412.8855	8.9600e-003	0.0000	413.1094
Total	**0.2309**	**1.6347**	**1.6688**	**9.9000e-003**	**0.5912**	**5.1300e-003**	**0.5963**	**0.1637**	**4.7800e-003**	**0.1685**	**0.0000**	**939.4515**	**939.4515**	**0.0440**	**0.0000**	**940.5502**

3.6 Phase 2 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1159	0.9739	1.3412	2.4400e-003		0.0412	0.0412		0.0386	0.0386	0.0000	211.1463	211.1463	0.0551	0.0000	212.5231
Total	**0.1159**	**0.9739**	**1.3412**	**2.4400e-003**		**0.0412**	**0.0412**		**0.0386**	**0.0386**	**0.0000**	**211.1463**	**211.1463**	**0.0551**	**0.0000**	**212.5231**

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	0.0203	0.7479	0.2291	2.6400e-003	0.0706	8.3000e-004	0.0715	0.0204	7.9000e-004	0.0212	0.0000	260.1177	260.1177	0.0173	0.0000	260.5491
Worker	0.0888	0.0505	0.5658	2.2000e-003	0.3041	1.5700e-003	0.3057	0.0808	1.4500e-003	0.0823	0.0000	199.2056	199.2056	4.1900e-003	0.0000	199.3104
Total	**0.1091**	**0.7985**	**0.7949**	**4.8400e-003**	**0.3748**	**2.4000e-003**	**0.3772**	**0.1012**	**2.2400e-003**	**0.1035**	**0.0000**	**459.3233**	**459.3233**	**0.0215**	**0.0000**	**459.8595**

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	0.0880	0.7326	1.4574	2.4400e-003		0.0306	0.0306		0.0290	0.0290	0.0000	211.1461	211.1461	0.0551	0.0000	212.5229

Total	**0.0880**	**0.7326**	**1.4574**	**2.4400e-003**		**0.0306**	**0.0306**		**0.0290**	**0.0290**	**0.0000**	**211.1461**	**211.1461**	**0.0551**	**0.0000**	**212.5229**

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	0.0203	0.7479	0.2291	2.6400e-003	0.0577	8.3000e-004	0.0585	0.0172	7.9000e-004	0.0180	0.0000	260.1177	260.1177	0.0173	0.0000	260.5491
Worker	0.0888	0.0505	0.5658	2.2000e-003	0.2357	1.5700e-003	0.2372	0.0640	1.4500e-003	0.0655	0.0000	199.2056	199.2056	4.1900e-003	0.0000	199.3104
Total	**0.1091**	**0.7985**	**0.7949**	**4.8400e-003**	**0.2933**	**2.4000e-003**	**0.2957**	**0.0812**	**2.2400e-003**	**0.0835**	**0.0000**	**459.3233**	**459.3233**	**0.0215**	**0.0000**	**459.8595**

3.7 Phase 3 Utilities - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0198	0.1371	0.2442	6.5000e-004		5.5500e-003	5.5500e-003		5.1000e-003	5.1000e-003	0.0000	56.7780	56.7780	0.0184	0.0000	57.2371
Total	**0.0198**	**0.1371**	**0.2442**	**6.5000e-004**		**5.5500e-003**	**5.5500e-003**		**5.1000e-003**	**5.1000e-003**	**0.0000**	**56.7780**	**56.7780**	**0.0184**	**0.0000**	**57.2371**

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	2.0000e-005	1.2700e-003	2.8000e-004	0.0000	0.2753	0.0000	0.2753	0.0275	0.0000	0.0275	0.0000	0.2727	0.2727	3.0000e-005	0.0000	0.2734
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2100e-003	2.4600e-003	0.0269	1.0000e-004	0.0130	8.0000e-005	0.0131	3.4500e-003	7.0000e-005	3.5200e-003	0.0000	9.0248	9.0248	2.0000e-004	0.0000	9.0298
Total	**4.2300e-003**	**3.7300e-003**	**0.0272**	**1.0000e-004**	**0.2883**	**8.0000e-005**	**0.2884**	**0.0310**	**7.0000e-005**	**0.0310**	**0.0000**	**9.2975**	**9.2975**	**2.3000e-004**	**0.0000**	**9.3033**

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	9.1900e-003	0.0455	0.3567	6.5000e-004		1.6700e-003	1.6700e-003		1.6100e-003	1.6100e-003	0.0000	56.7779	56.7779	0.0184	0.0000	57.2370
Total	**9.1900e-003**	**0.0455**	**0.3567**	**6.5000e-004**		**1.6700e-003**	**1.6700e-003**		**1.6100e-003**	**1.6100e-003**	**0.0000**	**56.7779**	**56.7779**	**0.0184**	**0.0000**	**57.2370**

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	2.0000e-005	1.2700e-003	2.8000e-004	0.0000	0.0591	0.0000	0.0591	5.9000e-003	0.0000	5.9100e-003	0.0000	0.2727	0.2727	3.0000e-005	0.0000	0.2734

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2100e-003	2.4600e-003	0.0269	1.0000e-004	0.0101	8.0000e-005	0.0101	2.7300e-003	7.0000e-005	2.8100e-003	0.0000	9.0248	9.0248	2.0000e-004	0.0000	9.0298
Total	**4.2300e-003**	**3.7300e-003**	**0.0272**	**1.0000e-004**	**0.0692**	**8.0000e-005**	**0.0692**	**8.6300e-003**	**7.0000e-005**	**8.7200e-003**	**0.0000**	**9.2975**	**9.2975**	**2.3000e-004**	**0.0000**	**9.3033**

3.7 Phase 3 Utilities - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1647	1.1383	2.0271	5.3700e-003		0.0461	0.0461		0.0424	0.0424	0.0000	471.2572	471.2572	0.1524	0.0000	475.0676
Total	**0.1647**	**1.1383**	**2.0271**	**5.3700e-003**		**0.0461**	**0.0461**		**0.0424**	**0.0424**	**0.0000**	**471.2572**	**471.2572**	**0.1524**	**0.0000**	**475.0676**

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	2.0000e-004	0.0104	2.3800e-003	2.0000e-005	0.2754	1.0000e-005	0.2754	0.0275	1.0000e-005	0.0275	0.0000	2.2479	2.2479	2.4000e-004	0.0000	2.2539
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0191	0.2117	8.0000e-004	0.1078	6.0000e-004	0.1084	0.0287	5.5000e-004	0.0292	0.0000	72.6277	72.6277	1.5800e-003	0.0000	72.6670
Total	**0.0335**	**0.0295**	**0.2141**	**8.2000e-004**	**0.3832**	**6.1000e-004**	**0.3838**	**0.0562**	**5.6000e-004**	**0.0567**	**0.0000**	**74.8756**	**74.8756**	**1.8200e-003**	**0.0000**	**74.9210**

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	0.0763	0.3780	2.9609	5.3700e-003		0.0138	0.0138		0.0134	0.0134	0.0000	471.2566	471.2566	0.1524	0.0000	475.0670
Total	**0.0763**	**0.3780**	**2.9609**	**5.3700e-003**		**0.0138**	**0.0138**		**0.0134**	**0.0134**	**0.0000**	**471.2566**	**471.2566**	**0.1524**	**0.0000**	**475.0670**

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	2.0000e-004	0.0104	2.3800e-003	2.0000e-005	0.0592	1.0000e-005	0.0592	5.9300e-003	1.0000e-005	5.9400e-003	0.0000	2.2479	2.2479	2.4000e-004	0.0000	2.2539
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0191	0.2117	8.0000e-004	0.0836	6.0000e-004	0.0842	0.0227	5.5000e-004	0.0233	0.0000	72.6277	72.6277	1.5800e-003	0.0000	72.6670
Total	**0.0335**	**0.0295**	**0.2141**	**8.2000e-004**	**0.1427**	**6.1000e-004**	**0.1433**	**0.0286**	**5.6000e-004**	**0.0292**	**0.0000**	**74.8756**	**74.8756**	**1.8200e-003**	**0.0000**	**74.9210**

3.8 Phase 3 Surface Improvements - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0491	0.3348	0.4242	1.2200e-003		0.0140	0.0140		0.0129	0.0129	0.0000	106.7279	106.7279	0.0345	0.0000	107.5909

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0491**	**0.3348**	**0.4242**	**1.2200e-003**		**0.0140**	**0.0140**		**0.0129**	**0.0129**	**0.0000**	**106.7279**	**106.7279**	**0.0345**	**0.0000**	**107.5909**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0170	0.1890	7.2000e-004	0.0962	5.4000e-004	0.0968	0.0256	4.9000e-004	0.0261	0.0000	64.8172	64.8172	1.4100e-003	0.0000	64.8523
Total	**0.0297**	**0.0170**	**0.1890**	**7.2000e-004**	**0.0962**	**5.4000e-004**	**0.0968**	**0.0256**	**4.9000e-004**	**0.0261**	**0.0000**	**64.8172**	**64.8172**	**1.4100e-003**	**0.0000**	**64.8523**

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	0.0152	0.0741	0.6356	1.2200e-003		2.0900e-003	2.0900e-003		2.0800e-003	2.0800e-003	0.0000	106.7278	106.7278	0.0345	0.0000	107.5907
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0152**	**0.0741**	**0.6356**	**1.2200e-003**		**2.0900e-003**	**2.0900e-003**		**2.0800e-003**	**2.0800e-003**	**0.0000**	**106.7278**	**106.7278**	**0.0345**	**0.0000**	**107.5907**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0170	0.1890	7.2000e-004	0.0746	5.4000e-004	0.0751	0.0203	4.9000e-004	0.0208	0.0000	64.8172	64.8172	1.4100e-003	0.0000	64.8523
Total	**0.0297**	**0.0170**	**0.1890**	**7.2000e-004**	**0.0746**	**5.4000e-004**	**0.0751**	**0.0203**	**4.9000e-004**	**0.0208**	**0.0000**	**64.8172**	**64.8172**	**1.4100e-003**	**0.0000**	**64.8523**

3.8 Phase 3 Surface Improvements - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0365	0.2490	0.3155	9.0000e-004		0.0104	0.0104		9.5600e-003	9.5600e-003	0.0000	79.3789	79.3789	0.0257	0.0000	80.0207
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0365**	**0.2490**	**0.3155**	**9.0000e-004**		**0.0104**	**0.0104**		**9.5600e-003**	**9.5600e-003**	**0.0000**	**79.3789**	**79.3789**	**0.0257**	**0.0000**	**80.0207**

Unmitigated Construction Off-Site

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

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0209	0.0119	0.1332	5.2000e-004	0.0716	3.7000e-004	0.0719	0.0190	3.4000e-004	0.0194	0.0000	46.8784	46.8784	9.9000e-004	0.0000	46.9031
Total	**0.0209**	**0.0119**	**0.1332**	**5.2000e-004**	**0.0716**	**3.7000e-004**	**0.0719**	**0.0190**	**3.4000e-004**	**0.0194**	**0.0000**	**46.8784**	**46.8784**	**9.9000e-004**	**0.0000**	**46.9031**

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	0.0113	0.0551	0.4727	9.0000e-004		1.5500e-003	1.5500e-003		1.5400e-003	1.5400e-003	0.0000	79.3788	79.3788	0.0257	0.0000	80.0206
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0113**	**0.0551**	**0.4727**	**9.0000e-004**		**1.5500e-003**	**1.5500e-003**		**1.5400e-003**	**1.5400e-003**	**0.0000**	**79.3788**	**79.3788**	**0.0257**	**0.0000**	**80.0206**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0209	0.0119	0.1332	5.2000e-004	0.0555	3.7000e-004	0.0558	0.0151	3.4000e-004	0.0154	0.0000	46.8784	46.8784	9.9000e-004	0.0000	46.9031
Total	**0.0209**	**0.0119**	**0.1332**	**5.2000e-004**	**0.0555**	**3.7000e-004**	**0.0558**	**0.0151**	**3.4000e-004**	**0.0154**	**0.0000**	**46.8784**	**46.8784**	**9.9000e-004**	**0.0000**	**46.9031**

3.9 Phase 4 Site Preparation - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1694	0.0000	0.1694	0.0455	0.0000	0.0455	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2336	0.2856	4.8000e-004		9.7500e-003	9.7500e-003		8.9700e-003	8.9700e-003	0.0000	41.9588	41.9588	0.0136	0.0000	42.2981
Total	**0.0247**	**0.2336**	**0.2856**	**4.8000e-004**	**0.1694**	**9.7500e-003**	**0.1792**	**0.0455**	**8.9700e-003**	**0.0545**	**0.0000**	**41.9588**	**41.9588**	**0.0136**	**0.0000**	**42.2981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.6300e-003	3.7000e-004	0.0000	0.0393	0.0000	0.0394	3.9300e-003	0.0000	3.9300e-003	0.0000	0.3521	0.3521	4.0000e-005	0.0000	0.3530
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	2.4000e-004	1.4000e-004	1.5400e-003	1.0000e-005	7.8000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.5266	0.5266	1.0000e-005	0.0000	0.5269
Total	**2.7000e-004**	**1.7700e-003**	**1.9100e-003**	**1.0000e-005**	**0.0401**	**0.0000**	**0.0401**	**4.1400e-003**	**0.0000**	**4.1400e-003**	**0.0000**	**0.8787**	**0.8787**	**5.0000e-005**	**0.0000**	**0.8800**

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					0.0416	0.0000	0.0416	0.0112	0.0000	0.0112	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	9.1300e-003	0.0663	0.2836	4.8000e-004		2.5000e-003	2.5000e-003		2.3500e-003	2.3500e-003	0.0000	41.9588	41.9588	0.0136	0.0000	42.2980
Total	**9.1300e-003**	**0.0663**	**0.2836**	**4.8000e-004**	**0.0416**	**2.5000e-003**	**0.0441**	**0.0112**	**2.3500e-003**	**0.0135**	**0.0000**	**41.9588**	**41.9588**	**0.0136**	**0.0000**	**42.2980**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.6300e-003	3.7000e-004	0.0000	8.4500e-003	0.0000	8.4500e-003	8.5000e-004	0.0000	8.5000e-004	0.0000	0.3521	0.3521	4.0000e-005	0.0000	0.3530
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	2.4000e-004	1.4000e-004	1.5400e-003	1.0000e-005	6.1000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5266	0.5266	1.0000e-005	0.0000	0.5269
Total	**2.7000e-004**	**1.7700e-003**	**1.9100e-003**	**1.0000e-005**	**9.0600e-003**	**0.0000**	**9.0600e-003**	**1.0100e-003**	**0.0000**	**1.0200e-003**	**0.0000**	**0.8787**	**0.8787**	**5.0000e-005**	**0.0000**	**0.8800**

3.10 Phase 4 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3326	0.0000	0.3326	0.1340	0.0000	0.1340	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2784	2.6302	1.9695	6.0400e-003		0.1013	0.1013		0.0932	0.0932	0.0000	530.0860	530.0860	0.1714	0.0000	534.3720
Total	**0.2784**	**2.6302**	**1.9695**	**6.0400e-003**	**0.3326**	**0.1013**	**0.4339**	**0.1340**	**0.0932**	**0.2272**	**0.0000**	**530.0860**	**530.0860**	**0.1714**	**0.0000**	**534.3720**

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	1.2900e-003	0.0683	0.0157	1.5000e-004	7.7252	4.0000e-005	7.7252	0.7716	4.0000e-005	0.7716	0.0000	14.7755	14.7755	1.5800e-003	0.0000	14.8151
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0300e-003	5.1800e-003	0.0575	2.2000e-004	0.0293	1.6000e-004	0.0294	7.7800e-003	1.5000e-004	7.9300e-003	0.0000	19.7152	19.7152	4.3000e-004	0.0000	19.7259
Total	**0.0103**	**0.0735**	**0.0731**	**3.7000e-004**	**7.7545**	**2.0000e-004**	**7.7547**	**0.7794**	**1.9000e-004**	**0.7795**	**0.0000**	**34.4907**	**34.4907**	**2.0100e-003**	**0.0000**	**34.5410**

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					0.0817	0.0000	0.0817	0.0329	0.0000	0.0329	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0744	0.3242	2.7134	6.0400e-003		0.0100	0.0100		9.9900e-003	9.9900e-003	0.0000	530.0854	530.0854	0.1714	0.0000	534.3714
Total	**0.0744**	**0.3242**	**2.7134**	**6.0400e-003**	**0.0817**	**0.0100**	**0.0917**	**0.0329**	**9.9900e-003**	**0.0429**	**0.0000**	**530.0854**	**530.0854**	**0.1714**	**0.0000**	**534.3714**

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	1.2900e-003	0.0683	0.0157	1.5000e-004	1.6578	4.0000e-005	1.6579	0.1658	4.0000e-005	0.1658	0.0000	14.7755	14.7755	1.5800e-003	0.0000	14.8151

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0300e-003	5.1800e-003	0.0575	2.2000e-004	0.0227	1.6000e-004	0.0228	6.1600e-003	1.5000e-004	6.3100e-003	0.0000	19.7152	19.7152	4.3000e-004	0.0000	19.7259
Total	**0.0103**	**0.0735**	**0.0731**	**3.7000e-004**	**1.6805**	**2.0000e-004**	**1.6807**	**0.1719**	**1.9000e-004**	**0.1721**	**0.0000**	**34.4907**	**34.4907**	**2.0100e-003**	**0.0000**	**34.5410**

3.10 Phase 4 Grading - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6902	0.0000	0.6902	0.3305	0.0000	0.3305	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7267	6.8648	5.1403	0.0158		0.2644	0.2644		0.2433	0.2433	0.0000	1,383.5245	1,383.5245	0.4475	0.0000	1,394.7110
Total	**0.7267**	**6.8648**	**5.1403**	**0.0158**	**0.6902**	**0.2644**	**0.9546**	**0.3305**	**0.2433**	**0.5738**	**0.0000**	**1,383.5245**	**1,383.5245**	**0.4475**	**0.0000**	**1,394.7110**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3200e-003	0.1761	0.0412	3.8000e-004	7.7261	1.1000e-004	7.7262	0.7719	1.0000e-004	0.7720	0.0000	38.2982	38.2982	4.0800e-003	0.0000	38.4001
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0223	0.0127	0.1421	5.5000e-004	0.0764	3.9000e-004	0.0768	0.0203	3.6000e-004	0.0207	0.0000	50.0378	50.0378	1.0500e-003	0.0000	50.0641
Total	**0.0256**	**0.1888**	**0.1833**	**9.3000e-004**	**7.8025**	**5.0000e-004**	**7.8030**	**0.7922**	**4.6000e-004**	**0.7927**	**0.0000**	**88.3359**	**88.3359**	**5.1300e-003**	**0.0000**	**88.4641**

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					0.1696	0.0000	0.1696	0.0812	0.0000	0.0812	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1942	0.8462	7.0821	0.0158		0.0261	0.0261		0.0261	0.0261	0.0000	1,383.5229	1,383.5229	0.4475	0.0000	1,394.7093
Total	**0.1942**	**0.8462**	**7.0821**	**0.0158**	**0.1696**	**0.0261**	**0.1957**	**0.0812**	**0.0261**	**0.1073**	**0.0000**	**1,383.5229**	**1,383.5229**	**0.4475**	**0.0000**	**1,394.7093**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3200e-003	0.1761	0.0412	3.8000e-004	1.6587	1.1000e-004	1.6588	0.1661	1.0000e-004	0.1662	0.0000	38.2982	38.2982	4.0800e-003	0.0000	38.4001
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0223	0.0127	0.1421	5.5000e-004	0.0592	3.9000e-004	0.0596	0.0161	3.6000e-004	0.0164	0.0000	50.0378	50.0378	1.0500e-003	0.0000	50.0641
Total	**0.0256**	**0.1888**	**0.1833**	**9.3000e-004**	**1.7179**	**5.0000e-004**	**1.7184**	**0.1822**	**4.6000e-004**	**0.1826**	**0.0000**	**88.3359**	**88.3359**	**5.1300e-003**	**0.0000**	**88.4641**

3.10 Phase 4 Grading - 2030

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					0.3748	0.0000	0.3748	0.1572	0.0000	0.1572	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.3885	1.6228	1.7822	7.3600e-003		0.0608	0.0608		0.0608	0.0608	0.0000	757.6281	757.6281	0.0314	0.0000	758.4122
Total	**0.3885**	**1.6228**	**1.7822**	**7.3600e-003**	**0.3748**	**0.0608**	**0.4356**	**0.1572**	**0.0608**	**0.2180**	**0.0000**	**757.6281**	**757.6281**	**0.0314**	**0.0000**	**758.4122**

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	1.5000e-003	0.0795	0.0190	1.7000e-004	7.7253	5.0000e-005	7.7253	0.7716	5.0000e-005	0.7717	0.0000	17.3688	17.3688	1.8400e-003	0.0000	17.4147
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5300e-003	5.4200e-003	0.0614	2.5000e-004	0.0348	1.7000e-004	0.0350	9.2600e-003	1.5000e-004	9.4100e-003	0.0000	22.2453	22.2453	4.5000e-004	0.0000	22.2566
Total	**0.0110**	**0.0849**	**0.0803**	**4.2000e-004**	**7.7601**	**2.2000e-004**	**7.7603**	**0.7809**	**2.0000e-004**	**0.7811**	**0.0000**	**39.6142**	**39.6142**	**2.2900e-003**	**0.0000**	**39.6713**

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					0.0921	0.0000	0.0921	0.0386	0.0000	0.0386	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0886	0.3827	3.2289	7.3600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	757.6272	757.6272	0.0314	0.0000	758.4113
Total	**0.0886**	**0.3827**	**3.2289**	**7.3600e-003**	**0.0921**	**0.0118**	**0.1039**	**0.0386**	**0.0118**	**0.0504**	**0.0000**	**757.6272**	**757.6272**	**0.0314**	**0.0000**	**758.4113**

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	1.5000e-003	0.0795	0.0190	1.7000e-004	1.6579	5.0000e-005	1.6580	0.1658	5.0000e-005	0.1658	0.0000	17.3688	17.3688	1.8400e-003	0.0000	17.4147
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5300e-003	5.4200e-003	0.0614	2.5000e-004	0.0270	1.7000e-004	0.0272	7.3300e-003	1.5000e-004	7.4800e-003	0.0000	22.2453	22.2453	4.5000e-004	0.0000	22.2566
Total	**0.0110**	**0.0849**	**0.0803**	**4.2000e-004**	**1.6849**	**2.2000e-004**	**1.6851**	**0.1731**	**2.0000e-004**	**0.1733**	**0.0000**	**39.6142**	**39.6142**	**2.2900e-003**	**0.0000**	**39.6713**

3.11 Phase 3 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.9900e-003	0.0755	0.1040	1.9000e-004		3.1900e-003	3.1900e-003		2.9900e-003	2.9900e-003	0.0000	16.3679	16.3679	4.2700e-003	0.0000	16.4747
Total	**8.9900e-003**	**0.0755**	**0.1040**	**1.9000e-004**		**3.1900e-003**	**3.1900e-003**		**2.9900e-003**	**2.9900e-003**	**0.0000**	**16.3679**	**16.3679**	**4.2700e-003**	**0.0000**	**16.4747**

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	1.4300e-003	0.0523	0.0159	1.8000e-004	4.8800e-003	6.0000e-005	4.9400e-003	1.4100e-003	6.0000e-005	1.4600e-003	0.0000	18.0432	18.0432	1.2000e-003	0.0000	18.0732
Worker	6.5000e-003	3.7300e-003	0.0413	1.6000e-004	0.0211	1.2000e-004	0.0212	5.5900e-003	1.1000e-004	5.7000e-003	0.0000	14.1788	14.1788	3.1000e-004	0.0000	14.1865
Total	**7.9300e-003**	**0.0560**	**0.0573**	**3.4000e-004**	**0.0259**	**1.8000e-004**	**0.0261**	**7.0000e-003**	**1.7000e-004**	**7.1600e-003**	**0.0000**	**32.2219**	**32.2219**	**1.5100e-003**	**0.0000**	**32.2596**

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	6.8200e-003	0.0568	0.1130	1.9000e-004		2.3700e-003	2.3700e-003		2.2500e-003	2.2500e-003	0.0000	16.3679	16.3679	4.2700e-003	0.0000	16.4746
Total	**6.8200e-003**	**0.0568**	**0.1130**	**1.9000e-004**		**2.3700e-003**	**2.3700e-003**		**2.2500e-003**	**2.2500e-003**	**0.0000**	**16.3679**	**16.3679**	**4.2700e-003**	**0.0000**	**16.4746**

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	1.4300e-003	0.0523	0.0159	1.8000e-004	3.9800e-003	6.0000e-005	4.0400e-003	1.1900e-003	6.0000e-005	1.2400e-003	0.0000	18.0432	18.0432	1.2000e-003	0.0000	18.0732
Worker	6.5000e-003	3.7300e-003	0.0413	1.6000e-004	0.0163	1.2000e-004	0.0164	4.4300e-003	1.1000e-004	4.5400e-003	0.0000	14.1788	14.1788	3.1000e-004	0.0000	14.1865
Total	**7.9300e-003**	**0.0560**	**0.0573**	**3.4000e-004**	**0.0203**	**1.8000e-004**	**0.0205**	**5.6200e-003**	**1.7000e-004**	**5.7800e-003**	**0.0000**	**32.2219**	**32.2219**	**1.5100e-003**	**0.0000**	**32.2596**

3.11 Phase 3 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2345	1.9705	2.7135	4.9400e-003		0.0833	0.0833		0.0780	0.0780	0.0000	427.2030	427.2030	0.1114	0.0000	429.9887
Total	**0.2345**	**1.9705**	**2.7135**	**4.9400e-003**		**0.0833**	**0.0833**		**0.0780**	**0.0780**	**0.0000**	**427.2030**	**427.2030**	**0.1114**	**0.0000**	**429.9887**

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	0.0366	1.3482	0.4129	4.7500e-003	0.1273	1.5000e-003	0.1288	0.0368	1.4300e-003	0.0382	0.0000	468.8718	468.8718	0.0311	0.0000	469.6494
Worker	0.1604	0.0913	1.0221	3.9800e-003	0.5494	2.8400e-003	0.5523	0.1460	2.6100e-003	0.1486	0.0000	359.8607	359.8607	7.5700e-003	0.0000	360.0499
Total	**0.1970**	**1.4394**	**1.4351**	**8.7300e-003**	**0.6767**	**4.3400e-003**	**0.6811**	**0.1828**	**4.0400e-003**	**0.1868**	**0.0000**	**828.7324**	**828.7324**	**0.0387**	**0.0000**	**829.6993**

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	0.1781	1.4823	2.9486	4.9400e-003		0.0619	0.0619		0.0587	0.0587	0.0000	427.2025	427.2025	0.1114	0.0000	429.9882

Total	**0.1781**	**1.4823**	**2.9486**	**4.9400e-003**		**0.0619**	**0.0619**		**0.0587**	**0.0587**	**0.0000**	**427.2025**	**427.2025**	**0.1114**	**0.0000**	**429.9882**

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	0.0366	1.3482	0.4129	4.7500e-003	0.1039	1.5000e-003	0.1054	0.0310	1.4300e-003	0.0325	0.0000	468.8718	468.8718	0.0311	0.0000	469.6494
Worker	0.1604	0.0913	1.0221	3.9800e-003	0.4257	2.8400e-003	0.4286	0.1156	2.6100e-003	0.1183	0.0000	359.8607	359.8607	7.5700e-003	0.0000	360.0499
Total	**0.1970**	**1.4394**	**1.4351**	**8.7300e-003**	**0.5296**	**4.3400e-003**	**0.5340**	**0.1466**	**4.0400e-003**	**0.1507**	**0.0000**	**828.7324**	**828.7324**	**0.0387**	**0.0000**	**829.6993**

3.11 Phase 3 Building Construction - 2030

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	0.2352	1.1817	2.7224	5.6200e-003		0.0253	0.0253		0.0253	0.0253	0.0000	492.7361	492.7361	0.0189	0.0000	493.2082
Total	**0.2352**	**1.1817**	**2.7224**	**5.6200e-003**		**0.0253**	**0.0253**		**0.0253**	**0.0253**	**0.0000**	**492.7361**	**492.7361**	**0.0189**	**0.0000**	**493.2082**

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	0.0362	1.3341	0.4113	4.7300e-003	0.1273	1.4700e-003	0.1288	0.0368	1.4000e-003	0.0382	0.0000	467.1990	467.1990	0.0309	0.0000	467.9725
Worker	0.1503	0.0854	0.9682	3.8800e-003	0.5494	2.6400e-003	0.5521	0.1460	2.4300e-003	0.1484	0.0000	350.8879	350.8879	7.1400e-003	0.0000	351.0664
Total	**0.1864**	**1.4195**	**1.3796**	**8.6100e-003**	**0.6767**	**4.1100e-003**	**0.6808**	**0.1828**	**3.8300e-003**	**0.1866**	**0.0000**	**818.0869**	**818.0869**	**0.0381**	**0.0000**	**819.0389**

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	0.1630	0.9483	2.9363	5.6200e-003		0.0190	0.0190		0.0190	0.0190	0.0000	492.7356	492.7356	0.0189	0.0000	493.2076
Total	**0.1630**	**0.9483**	**2.9363**	**5.6200e-003**		**0.0190**	**0.0190**		**0.0190**	**0.0190**	**0.0000**	**492.7356**	**492.7356**	**0.0189**	**0.0000**	**493.2076**

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	0.0362	1.3341	0.4113	4.7300e-003	0.1039	1.4700e-003	0.1054	0.0310	1.4000e-003	0.0324	0.0000	467.1990	467.1990	0.0309	0.0000	467.9725
Worker	0.1503	0.0854	0.9682	3.8800e-003	0.4257	2.6400e-003	0.4284	0.1156	2.4300e-003	0.1181	0.0000	350.8879	350.8879	7.1400e-003	0.0000	351.0664
Total	**0.1864**	**1.4195**	**1.3796**	**8.6100e-003**	**0.5296**	**4.1100e-003**	**0.5337**	**0.1466**	**3.8300e-003**	**0.1505**	**0.0000**	**818.0869**	**818.0869**	**0.0381**	**0.0000**	**819.0389**

3.11 Phase 3 Building Construction - 2031

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	0.1334	0.6701	1.5437	3.1900e-003		0.0143	0.0143		0.0143	0.0143	0.0000	279.4059	279.4059	0.0107	0.0000	279.6736
Total	**0.1334**	**0.6701**	**1.5437**	**3.1900e-003**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**279.4059**	**279.4059**	**0.0107**	**0.0000**	**279.6736**

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	0.0203	0.7496	0.2325	2.6700e-003	0.0722	8.2000e-004	0.0730	0.0209	7.8000e-004	0.0216	0.0000	264.1281	264.1281	0.0175	0.0000	264.5645
Worker	0.0792	0.0454	0.5200	2.1500e-003	0.3115	1.3900e-003	0.3129	0.0828	1.2800e-003	0.0841	0.0000	194.5185	194.5185	3.8300e-003	0.0000	194.6142
Total	**0.0995**	**0.7949**	**0.7525**	**4.8200e-003**	**0.3837**	**2.2100e-003**	**0.3860**	**0.1036**	**2.0600e-003**	**0.1057**	**0.0000**	**458.6466**	**458.6466**	**0.0213**	**0.0000**	**459.1787**

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	0.0924	0.5377	1.6650	3.1900e-003		0.0108	0.0108		0.0108	0.0108	0.0000	279.4056	279.4056	0.0107	0.0000	279.6733
Total	**0.0924**	**0.5377**	**1.6650**	**3.1900e-003**		**0.0108**	**0.0108**		**0.0108**	**0.0108**	**0.0000**	**279.4056**	**279.4056**	**0.0107**	**0.0000**	**279.6733**

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	0.0203	0.7496	0.2325	2.6700e-003	0.0589	8.2000e-004	0.0597	0.0176	7.8000e-004	0.0184	0.0000	264.1281	264.1281	0.0175	0.0000	264.5645
Worker	0.0792	0.0454	0.5200	2.1500e-003	0.2414	1.3900e-003	0.2428	0.0656	1.2800e-003	0.0669	0.0000	194.5185	194.5185	3.8300e-003	0.0000	194.6142
Total	**0.0995**	**0.7949**	**0.7525**	**4.8200e-003**	**0.3003**	**2.2100e-003**	**0.3025**	**0.0832**	**2.0600e-003**	**0.0852**	**0.0000**	**458.6466**	**458.6466**	**0.0213**	**0.0000**	**459.1787**

3.12 Phase 4 Utilities - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0555	0.3839	0.6845	1.8100e-003		0.0155	0.0155		0.0143	0.0143	0.0000	158.9454	158.9454	0.0514	0.0000	160.2305

Total	**0.0555**	**0.3839**	**0.6845**	**1.8100e-003**		**0.0155**	**0.0155**		**0.0143**	**0.0143**	**0.0000**	**158.9454**	**158.9454**	**0.0514**	**0.0000**	**160.2305**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	3.9600e-003	9.3000e-004	1.0000e-005	0.3147	0.0000	0.3147	0.0314	0.0000	0.0314	0.0000	0.8607	0.8607	9.0000e-005	0.0000	0.8630
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0121	6.9100e-003	0.0773	3.0000e-004	0.0416	2.1000e-004	0.0418	0.0111	2.0000e-004	0.0112	0.0000	27.2289	27.2289	5.7000e-004	0.0000	27.2432
Total	**0.0122**	**0.0109**	**0.0783**	**3.1000e-004**	**0.3563**	**2.1000e-004**	**0.3565**	**0.0425**	**2.0000e-004**	**0.0427**	**0.0000**	**28.0896**	**28.0896**	**6.6000e-004**	**0.0000**	**28.1062**

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	0.0257	0.1275	0.9992	1.8100e-003		4.6700e-003	4.6700e-003		4.5100e-003	4.5100e-003	0.0000	158.9452	158.9452	0.0514	0.0000	160.2303
Total	**0.0257**	**0.1275**	**0.9992**	**1.8100e-003**		**4.6700e-003**	**4.6700e-003**		**4.5100e-003**	**4.5100e-003**	**0.0000**	**158.9452**	**158.9452**	**0.0514**	**0.0000**	**160.2303**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	3.9600e-003	9.3000e-004	1.0000e-005	0.0675	0.0000	0.0675	6.7600e-003	0.0000	6.7600e-003	0.0000	0.8607	0.8607	9.0000e-005	0.0000	0.8630
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0121	6.9100e-003	0.0773	3.0000e-004	0.0322	2.1000e-004	0.0324	8.7500e-003	2.0000e-004	8.9500e-003	0.0000	27.2289	27.2289	5.7000e-004	0.0000	27.2432
Total	**0.0122**	**0.0109**	**0.0783**	**3.1000e-004**	**0.0998**	**2.1000e-004**	**0.1000**	**0.0155**	**2.0000e-004**	**0.0157**	**0.0000**	**28.0896**	**28.0896**	**6.6000e-004**	**0.0000**	**28.1062**

3.12 Phase 4 Utilities - 2030

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	0.1795	0.4258	1.6727	4.9300e-003		0.0160	0.0160		0.0160	0.0160	0.0000	447.1596	447.1596	0.0144	0.0000	447.5196
Total	**0.1795**	**0.4258**	**1.6727**	**4.9300e-003**		**0.0160**	**0.0160**		**0.0160**	**0.0160**	**0.0000**	**447.1596**	**447.1596**	**0.0144**	**0.0000**	**447.5196**

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	1.7000e-004	9.1400e-003	2.1800e-003	2.0000e-005	0.3147	1.0000e-005	0.3147	0.0315	1.0000e-005	0.0315	0.0000	1.9976	1.9976	2.1000e-004	0.0000	2.0029

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0265	0.0151	0.1709	6.8000e-004	0.0970	4.7000e-004	0.0975	0.0258	4.3000e-004	0.0262	0.0000	61.9499	61.9499	1.2600e-003	0.0000	61.9814
Total	**0.0267**	**0.0242**	**0.1731**	**7.0000e-004**	**0.4117**	**4.8000e-004**	**0.4122**	**0.0572**	**4.4000e-004**	**0.0577**	**0.0000**	**63.9475**	**63.9475**	**1.4700e-003**	**0.0000**	**63.9843**

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	0.0625	0.2431	2.3464	4.9300e-003		7.8800e-003	7.8800e-003		7.8800e-003	7.8800e-003	0.0000	447.1590	447.1590	0.0144	0.0000	447.5191
Total	**0.0625**	**0.2431**	**2.3464**	**4.9300e-003**		**7.8800e-003**	**7.8800e-003**		**7.8800e-003**	**7.8800e-003**	**0.0000**	**447.1590**	**447.1590**	**0.0144**	**0.0000**	**447.5191**

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	1.7000e-004	9.1400e-003	2.1800e-003	2.0000e-005	0.0676	1.0000e-005	0.0676	6.7700e-003	1.0000e-005	6.7800e-003	0.0000	1.9976	1.9976	2.1000e-004	0.0000	2.0029
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0265	0.0151	0.1709	6.8000e-004	0.0752	4.7000e-004	0.0756	0.0204	4.3000e-004	0.0208	0.0000	61.9499	61.9499	1.2600e-003	0.0000	61.9814
Total	**0.0267**	**0.0242**	**0.1731**	**7.0000e-004**	**0.1427**	**4.8000e-004**	**0.1432**	**0.0272**	**4.4000e-004**	**0.0276**	**0.0000**	**63.9475**	**63.9475**	**1.4700e-003**	**0.0000**	**63.9843**

3.13 Phase 4 Surface Improvements - 2030

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	0.0798	0.2302	0.5799	1.8100e-003		8.7100e-003	8.7100e-003		8.7100e-003	8.7100e-003	0.0000	177.0185	177.0185	6.4000e-003	0.0000	177.1783
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0798**	**0.2302**	**0.5799**	**1.8100e-003**		**8.7100e-003**	**8.7100e-003**		**8.7100e-003**	**8.7100e-003**	**0.0000**	**177.0185**	**177.0185**	**6.4000e-003**	**0.0000**	**177.1783**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0365	0.0208	0.2353	9.4000e-004	0.1335	6.4000e-004	0.1342	0.0355	5.9000e-004	0.0361	0.0000	85.2732	85.2732	1.7400e-003	0.0000	85.3166
Total	**0.0365**	**0.0208**	**0.2353**	**9.4000e-004**	**0.1335**	**6.4000e-004**	**0.1342**	**0.0355**	**5.9000e-004**	**0.0361**	**0.0000**	**85.2732**	**85.2732**	**1.7400e-003**	**0.0000**	**85.3166**

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	0.0213	0.1019	0.8822	1.8100e-003		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	177.0182	177.0182	6.4000e-003	0.0000	177.1781

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0213**	**0.1019**	**0.8822**	**1.8100e-003**		**2.7900e-003**	**2.7900e-003**		**2.7900e-003**	**2.7900e-003**	**0.0000**	**177.0182**	**177.0182**	**6.4000e-003**	**0.0000**	**177.1781**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0365	0.0208	0.2353	9.4000e-004	0.1035	6.4000e-004	0.1041	0.0281	5.9000e-004	0.0287	0.0000	85.2732	85.2732	1.7400e-003	0.0000	85.3166
Total	**0.0365**	**0.0208**	**0.2353**	**9.4000e-004**	**0.1035**	**6.4000e-004**	**0.1041**	**0.0281**	**5.9000e-004**	**0.0287**	**0.0000**	**85.2732**	**85.2732**	**1.7400e-003**	**0.0000**	**85.3166**

3.13 Phase 4 Surface Improvements - 2031

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	0.0209	0.0602	0.1515	4.7000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	46.2481	46.2481	1.6700e-003	0.0000	46.2898
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0209**	**0.0602**	**0.1515**	**4.7000e-004**		**2.2800e-003**	**2.2800e-003**		**2.2800e-003**	**2.2800e-003**	**0.0000**	**46.2481**	**46.2481**	**1.6700e-003**	**0.0000**	**46.2898**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8700e-003	5.0800e-003	0.0582	2.4000e-004	0.0349	1.6000e-004	0.0350	9.2700e-003	1.4000e-004	9.4100e-003	0.0000	21.7801	21.7801	4.3000e-004	0.0000	21.7908
Total	**8.8700e-003**	**5.0800e-003**	**0.0582**	**2.4000e-004**	**0.0349**	**1.6000e-004**	**0.0350**	**9.2700e-003**	**1.4000e-004**	**9.4100e-003**	**0.0000**	**21.7801**	**21.7801**	**4.3000e-004**	**0.0000**	**21.7908**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5500e-003	0.0266	0.2305	4.7000e-004		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	46.2480	46.2480	1.6700e-003	0.0000	46.2898
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.5500e-003**	**0.0266**	**0.2305**	**4.7000e-004**		**7.3000e-004**	**7.3000e-004**		**7.3000e-004**	**7.3000e-004**	**0.0000**	**46.2480**	**46.2480**	**1.6700e-003**	**0.0000**	**46.2898**

Mitigated Construction Off-Site

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

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8700e-003	5.0800e-003	0.0582	2.4000e-004	0.0270	1.6000e-004	0.0272	7.3400e-003	1.4000e-004	7.4900e-003	0.0000	21.7801	21.7801	4.3000e-004	0.0000	21.7908
Total	**8.8700e-003**	**5.0800e-003**	**0.0582**	**2.4000e-004**	**0.0270**	**1.6000e-004**	**0.0272**	**7.3400e-003**	**1.4000e-004**	**7.4900e-003**	**0.0000**	**21.7801**	**21.7801**	**4.3000e-004**	**0.0000**	**21.7908**

3.14 Phase 4 Building Construction - 2030

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	0.0263	0.1271	0.3113	6.3000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	55.4332	55.4332	2.1100e-003	0.0000	55.4860
Total	**0.0263**	**0.1271**	**0.3113**	**6.3000e-004**		**2.8300e-003**	**2.8300e-003**		**2.8300e-003**	**2.8300e-003**	**0.0000**	**55.4332**	**55.4332**	**2.1100e-003**	**0.0000**	**55.4860**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9800e-003	0.2206	0.0680	7.8000e-004	0.0211	2.4000e-004	0.0213	6.0800e-003	2.3000e-004	6.3100e-003	0.0000	77.2637	77.2637	5.1200e-003	0.0000	77.3917
Worker	0.0248	0.0141	0.1599	6.4000e-004	0.0907	4.4000e-004	0.0912	0.0241	4.0000e-004	0.0245	0.0000	57.9397	57.9397	1.1800e-003	0.0000	57.9692
Total	**0.0308**	**0.2347**	**0.2279**	**1.4200e-003**	**0.1118**	**6.8000e-004**	**0.1125**	**0.0302**	**6.3000e-004**	**0.0308**	**0.0000**	**135.2034**	**135.2034**	**6.3000e-003**	**0.0000**	**135.3608**

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	0.0174	0.1004	0.3358	6.3000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	55.4332	55.4332	2.1100e-003	0.0000	55.4859
Total	**0.0174**	**0.1004**	**0.3358**	**6.3000e-004**		**2.0400e-003**	**2.0400e-003**		**2.0400e-003**	**2.0400e-003**	**0.0000**	**55.4332**	**55.4332**	**2.1100e-003**	**0.0000**	**55.4859**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9800e-003	0.2206	0.0680	7.8000e-004	0.0172	2.4000e-004	0.0174	5.1300e-003	2.3000e-004	5.3600e-003	0.0000	77.2637	77.2637	5.1200e-003	0.0000	77.3917
Worker	0.0248	0.0141	0.1599	6.4000e-004	0.0703	4.4000e-004	0.0707	0.0191	4.0000e-004	0.0195	0.0000	57.9397	57.9397	1.1800e-003	0.0000	57.9692
Total	**0.0308**	**0.2347**	**0.2279**	**1.4200e-003**	**0.0875**	**6.8000e-004**	**0.0882**	**0.0242**	**6.3000e-004**	**0.0249**	**0.0000**	**135.2034**	**135.2034**	**6.3000e-003**	**0.0000**	**135.3608**

3.14 Phase 4 Building Construction - 2031

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	0.2544	1.2288	3.0088	6.1200e-003		0.0274	0.0274		0.0274	0.0274	0.0000	535.8545	535.8545	0.0204	0.0000	536.3645

Total	**0.2544**	**1.2288**	**3.0088**	**6.1200e-003**		**0.0274**	**0.0274**		**0.0274**	**0.0274**	**0.0000**	**535.8545**	**535.8545**	**0.0204**	**0.0000**	**536.3645**

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	0.0572	2.1132	0.6554	7.5300e-003	0.2036	2.3000e-003	0.2059	0.0588	2.2000e-003	0.0610	0.0000	744.6357	744.6357	0.0492	0.0000	745.8661
Worker	0.2229	0.1277	1.4638	6.0500e-003	0.8770	3.9200e-003	0.8809	0.2330	3.6000e-003	0.2366	0.0000	547.5508	547.5508	0.0108	0.0000	547.8203
Total	**0.2800**	**2.2409**	**2.1192**	**0.0136**	**1.0805**	**6.2200e-003**	**1.0867**	**0.2918**	**5.8000e-003**	**0.2976**	**0.0000**	**1,292.1865**	**1,292.1865**	**0.0600**	**0.0000**	**1,293.6863**

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	0.1680	0.9700	3.2457	6.1200e-003		0.0197	0.0197		0.0197	0.0197	0.0000	535.8539	535.8539	0.0204	0.0000	536.3639
Total	**0.1680**	**0.9700**	**3.2457**	**6.1200e-003**		**0.0197**	**0.0197**		**0.0197**	**0.0197**	**0.0000**	**535.8539**	**535.8539**	**0.0204**	**0.0000**	**536.3639**

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	0.0572	2.1132	0.6554	7.5300e-003	0.1661	2.3000e-003	0.1684	0.0496	2.2000e-003	0.0518	0.0000	744.6357	744.6357	0.0492	0.0000	745.8661
Worker	0.2229	0.1277	1.4638	6.0500e-003	0.6795	3.9200e-003	0.6835	0.1846	3.6000e-003	0.1882	0.0000	547.5508	547.5508	0.0108	0.0000	547.8203
Total	**0.2800**	**2.2409**	**2.1192**	**0.0136**	**0.8457**	**6.2200e-003**	**0.8519**	**0.2342**	**5.8000e-003**	**0.2400**	**0.0000**	**1,292.1865**	**1,292.1865**	**0.0600**	**0.0000**	**1,293.6863**

3.14 Phase 4 Building Construction - 2032

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	0.2553	1.2335	3.0204	6.1400e-003		0.0275	0.0275		0.0275	0.0275	0.0000	537.9076	537.9076	0.0205	0.0000	538.4195
Total	**0.2553**	**1.2335**	**3.0204**	**6.1400e-003**		**0.0275**	**0.0275**		**0.0275**	**0.0275**	**0.0000**	**537.9076**	**537.9076**	**0.0205**	**0.0000**	**538.4195**

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	0.0569	2.1039	0.6569	7.5400e-003	0.2043	2.2800e-003	0.2066	0.0590	2.1800e-003	0.0612	0.0000	745.8101	745.8101	0.0492	0.0000	747.0400
Worker	0.2086	0.1210	1.3988	5.9500e-003	0.8803	3.6600e-003	0.8840	0.2339	3.3700e-003	0.2373	0.0000	538.7304	538.7304	0.0103	0.0000	538.9881
Total	**0.2655**	**2.2248**	**2.0557**	**0.0135**	**1.0847**	**5.9400e-003**	**1.0906**	**0.2929**	**5.5500e-003**	**0.2985**	**0.0000**	**1,284.5404**	**1,284.5404**	**0.0595**	**0.0000**	**1,286.0281**

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	0.1686	0.9738	3.2582	6.1400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	537.9070	537.9070	0.0205	0.0000	538.4189
Total	**0.1686**	**0.9738**	**3.2582**	**6.1400e-003**		**0.0198**	**0.0198**		**0.0198**	**0.0198**	**0.0000**	**537.9070**	**537.9070**	**0.0205**	**0.0000**	**538.4189**

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	0.0569	2.1039	0.6569	7.5400e-003	0.1668	2.2800e-003	0.1690	0.0498	2.1800e-003	0.0520	0.0000	745.8101	745.8101	0.0492	0.0000	747.0400
Worker	0.2086	0.1210	1.3988	5.9500e-003	0.6821	3.6600e-003	0.6858	0.1853	3.3700e-003	0.1887	0.0000	538.7304	538.7304	0.0103	0.0000	538.9881
Total	**0.2655**	**2.2248**	**2.0557**	**0.0135**	**0.8489**	**5.9400e-003**	**0.8548**	**0.2351**	**5.5500e-003**	**0.2406**	**0.0000**	**1,284.5404**	**1,284.5404**	**0.0595**	**0.0000**	**1,286.0281**

3.14 Phase 4 Building Construction - 2033

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	0.1267	0.6121	1.4987	3.0500e-003		0.0136	0.0136		0.0136	0.0136	0.0000	266.9007	266.9007	0.0102	0.0000	267.1547
Total	**0.1267**	**0.6121**	**1.4987**	**3.0500e-003**		**0.0136**	**0.0136**		**0.0136**	**0.0136**	**0.0000**	**266.9007**	**266.9007**	**0.0102**	**0.0000**	**267.1547**

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	0.0280	1.0361	0.3257	3.7300e-003	0.1014	1.1200e-003	0.1025	0.0293	1.0700e-003	0.0303	0.0000	369.3842	369.3842	0.0243	0.0000	369.9924
Worker	0.0970	0.0570	0.6638	2.9000e-003	0.4368	1.7000e-003	0.4385	0.1161	1.5600e-003	0.1176	0.0000	262.6439	262.6439	4.9000e-003	0.0000	262.7664
Total	**0.1250**	**1.0931**	**0.9895**	**6.6300e-003**	**0.5382**	**2.8200e-003**	**0.5410**	**0.1453**	**2.6300e-003**	**0.1480**	**0.0000**	**632.0282**	**632.0282**	**0.0292**	**0.0000**	**632.7588**

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	0.0837	0.4832	1.6167	3.0500e-003		9.8100e-003	9.8100e-003		9.8100e-003	9.8100e-003	0.0000	266.9004	266.9004	0.0102	0.0000	267.1544

Total	**0.0837**	**0.4832**	**1.6167**	**3.0500e-003**		**9.8100e-003**	**9.8100e-003**		**9.8100e-003**	**9.8100e-003**	**0.0000**	**266.9004**	**266.9004**	**0.0102**	**0.0000**	**267.1544**

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	0.0280	1.0361	0.3257	3.7300e-003	0.0827	1.1200e-003	0.0839	0.0247	1.0700e-003	0.0258	0.0000	369.3842	369.3842	0.0243	0.0000	369.9924
Worker	0.0970	0.0570	0.6638	2.9000e-003	0.3385	1.7000e-003	0.3402	0.0919	1.5600e-003	0.0935	0.0000	262.6439	262.6439	4.9000e-003	0.0000	262.7664
Total	**0.1250**	**1.0931**	**0.9895**	**6.6300e-003**	**0.4212**	**2.8200e-003**	**0.4240**	**0.1166**	**2.6300e-003**	**0.1193**	**0.0000**	**632.0282**	**632.0282**	**0.0292**	**0.0000**	**632.7588**

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	21.8199	0.0000	21.8199	5.3558	0.0000	5.3558	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	21.8199	0.0000	21.8199	5.3558	0.0000	5.3558	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
Apartments Low Rise	5,252.23	5,706.52	4837.79	15,012,965	15,012,965
Apartments Low Rise	2,866.65	3,114.60	2640.45	8,194,027	8,194,027
City Park	59.35	714.35	525.64	468,666	468,666
City Park	54.62	657.48	483.79	431,352	431,352
City Park	23.44	282.10	207.58	185,078	185,078
Elementary School	1,290.00	0.00	0.00	2,031,694	2,031,694
Regional Shopping Center	2,562.00	2,998.20	1514.40	4,338,828	4,338,828
Retirement Community	1,068.00	903.35	867.75	2,900,621	2,900,621
Single Family Housing	12,109.44	12,605.52	10964.64	34,311,512	34,311,512
User Defined Industrial	0.00	0.00	0.00		
Total	25,285.72	26,982.12	22,042.03	67,874,743	67,874,743

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Retirement Community	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
User Defined Industrial	9.50	7.30	7.30	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
Apartments Low Rise	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
City Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Elementary School	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Regional Shopping Center	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

Retirement Community	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Single Family Housing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,108.6032	6,108.6032	0.2459	0.0509	6,129.9094
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,108.6032	6,108.6032	0.2459	0.0509	6,129.9094
NaturalGas Mitigated	0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	2,625.6083	2,625.6083	0.0503	0.0481	2,641.2110
NaturalGas Unmitigated	0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	2,625.6083	2,625.6083	0.0503	0.0481	2,641.2110

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 Low Rise	4.88309e+006	0.0263	0.2250	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	260.5802	260.5802	4.9900e-003	4.7800e-003	262.1287
Apartments Low Rise	8.94672e+006	0.0482	0.4123	0.1754	2.6300e-003		0.0333	0.0333		0.0333	0.0333	0.0000	477.4308	477.4308	9.1500e-003	8.7500e-003	480.2679

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
Elementary School	494932	2.6700e-003	0.0243	0.0204	1.5000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	26.4115	26.4115	5.1000e-004	4.8000e-004	26.5684
Regional Shopping Center	133800	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1401	7.1401	1.4000e-004	1.3000e-004	7.1825
Retirement Community	4.99534e+006	0.0269	0.2302	0.0980	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	266.5705	266.5705	5.1100e-003	4.8900e-003	268.1546
Single Family Housing	2.97482e+007	0.1604	1.3708	0.5833	8.7500e-003		0.1108	0.1108		0.1108	0.1108	0.0000	1,587.4752	1,587.4752	0.0304	0.0291	1,596.9088
User Defined Industrial	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		**0.2653**	**2.2690**	**0.9783**	**0.0145**		**0.1833**	**0.1833**		**0.1833**	**0.1833**	**0.0000**	**2,625.6083**	**2,625.6083**	**0.0503**	**0.0481**	**2,641.2110**

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 Low Rise	4.88309e+006	0.0263	0.2250	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	260.5802	260.5802	4.9900e-003	4.7800e-003	262.1287
Apartments Low Rise	8.94672e+006	0.0482	0.4123	0.1754	2.6300e-003		0.0333	0.0333		0.0333	0.0333	0.0000	477.4308	477.4308	9.1500e-003	8.7500e-003	480.2679
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
Elementary School	494932	2.6700e-003	0.0243	0.0204	1.5000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	26.4115	26.4115	5.1000e-004	4.8000e-004	26.5684
Regional Shopping Center	133800	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1401	7.1401	1.4000e-004	1.3000e-004	7.1825
Retirement Community	4.99534e+006	0.0269	0.2302	0.0980	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	266.5705	266.5705	5.1100e-003	4.8900e-003	268.1546
Single Family Housing	2.97482e+007	0.1604	1.3708	0.5833	8.7500e-003		0.1108	0.1108		0.1108	0.1108	0.0000	1,587.4752	1,587.4752	0.0304	0.0291	1,596.9088
User Defined Industrial	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		**0.2653**	**2.2690**	**0.9783**	**0.0145**		**0.1833**	**0.1833**		**0.1833**	**0.1833**	**0.0000**	**2,625.6083**	**2,625.6083**	**0.0503**	**0.0481**	**2,641.2110**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.84613e+006	603.3319	0.0243	5.0200e-003	605.4363
Apartments Low Rise	3.38245e+006	1,105.4150	0.0445	9.2100e-003	1,109.2706
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	438082	143.1689	5.7600e-003	1.1900e-003	143.6683
Regional Shopping Center	753600	246.2831	9.9100e-003	2.0500e-003	247.1421
Retirement Community	1.97345e+006	644.9409	0.0260	5.3700e-003	647.1904
Single Family Housing	1.0298e+007	3,365.4634	0.1355	0.0280	3,377.2018
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**6,108.6032**	**0.2459**	**0.0509**	**6,129.9094**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.84613e+006	603.3319	0.0243	5.0200e-003	605.4363
Apartments Low Rise	3.38245e+006	1,105.4150	0.0445	9.2100e-003	1,109.2706
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	438082	143.1689	5.7600e-003	1.1900e-003	143.6683
Regional Shopping Center	753600	246.2831	9.9100e-003	2.0500e-003	247.1421

Retirement Community	1.97345e+006	644.9409	0.0260	5.3700e-003	647.1904
Single Family Housing	1.0298e+007	3,365.4634	0.1355	0.0280	3,377.2018
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**6,108.6032**	**0.2459**	**0.0509**	**6,129.9094**

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	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.7962	1,847.0282	6,165.8244	4.0196	0.3397	6,367.5475
Unmitigated	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.7962	1,847.0282	6,165.8244	4.0196	0.3397	6,367.5475

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	16.1211					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Hearth	262.3418	5.1232	323.8325	0.5867		45.4044	45.4044		45.4044	45.4044	4,318.7962	1,811.2401	6,130.0363	3.9855	0.3397	6,330.9069
Landscaping	0.6534	0.2518	21.8301	1.1600e-003		0.1215	0.1215		0.1215	0.1215	0.0000	35.7881	35.7881	0.0341	0.0000	36.6406
Total	**279.1163**	**5.3751**	**345.6626**	**0.5879**		**45.5259**	**45.5259**		**45.5259**	**45.5259**	**4,318.7962**	**1,847.0282**	**6,165.8244**	**4.0196**	**0.3397**	**6,367.5475**

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	16.1211					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	262.3418	5.1232	323.8325	0.5867		45.4044	45.4044		45.4044	45.4044	4,318.7962	1,811.2401	6,130.0363	3.9855	0.3397	6,330.9069
Landscaping	0.6534	0.2518	21.8301	1.1600e-003		0.1215	0.1215		0.1215	0.1215	0.0000	35.7881	35.7881	0.0341	0.0000	36.6406
Total	**279.1163**	**5.3751**	**345.6626**	**0.5879**		**45.5259**	**45.5259**		**45.5259**	**45.5259**	**4,318.7962**	**1,847.0282**	**6,165.8244**	**4.0196**	**0.3397**	**6,367.5475**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,696.8285	6.5504	0.1667	1,910.2724
Unmitigated	1,696.8285	6.5504	0.1667	1,910.2724

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	80.2698 / 50.6048	550.7824	2.6367	0.0661	636.4088
City Park	0 / 86.6207	314.5064	0.0127	2.6200e-003	315.6033
Elementary School	2.42424 / 6.23376	33.7190	0.0803	2.1400e-003	36.3646
Regional Shopping Center	4.44435 / 2.72396	30.2127	0.1460	3.6600e-003	34.9526
Retirement Community	28.9935 / 18.2785	198.9433	0.9524	0.0239	229.8717
Single Family Housing	82.8759 / 52.2479	568.6649	2.7223	0.0683	657.0714
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**1,696.8285**	**6.5504**	**0.1667**	**1,910.2724**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	80.2698 / 50.6048	550.7824	2.6367	0.0661	636.4088
City Park	0 / 86.6207	314.5064	0.0127	2.6200e-003	315.6033
Elementary School	2.42424 / 6.23376	33.7190	0.0803	2.1400e-003	36.3646

Regional Shopping Center	4.44435 / 2.72396	30.2127	0.1460	3.6600e-003	34.9526
Retirement Community	28.9935 / 18.2785	198.9433	0.9524	0.0239	229.8717
Single Family Housing	82.8759 / 52.2479	568.6649	2.7223	0.0683	657.0714
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**1,696.8285**	**6.5504**	**0.1667**	**1,910.2724**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	510.4715	30.1680	0.0000	1,264.6716
Unmitigated	510.4715	30.1680	0.0000	1,264.6716

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	566.72	115.0390	6.7986	0.0000	285.0044

City Park	6.25	1.2687	0.0750	0.0000	3.1431
Elementary School	182.5	37.0459	2.1894	0.0000	91.7795
Regional Shopping Center	63	12.7884	0.7558	0.0000	31.6828
Retirement Community	204.7	41.5523	2.4557	0.0000	102.9439
Single Family Housing	1491.58	302.7773	17.8936	0.0000	750.1179
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**510.4715**	**30.1680**	**0.0000**	**1,264.6716**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	566.72	115.0390	6.7986	0.0000	285.0044
City Park	6.25	1.2687	0.0750	0.0000	3.1431
Elementary School	182.5	37.0459	2.1894	0.0000	91.7795
Regional Shopping Center	63	12.7884	0.7558	0.0000	31.6828
Retirement Community	204.7	41.5523	2.4557	0.0000	102.9439
Single Family Housing	1491.58	302.7773	17.8936	0.0000	750.1179
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**510.4715**	**30.1680**	**0.0000**	**1,264.6716**

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

Fanita Ranch Construction - San Diego County APCD Air District, Summer

Fanita Ranch Construction Phase 3-4

San Diego County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	1,000.00	Student	19.20	83,603.37	0
User Defined Industrial	1.00	User Defined Unit	69.60	0.00	0
City Park	31.40	Acre	31.40	1,367,784.00	0
City Park	28.90	Acre	28.90	1,258,884.00	0
City Park	12.40	Acre	12.40	540,144.00	0
Apartments Low Rise	797.00	Dwelling Unit	63.90	797,000.00	2279
Apartments Low Rise	435.00	Dwelling Unit	27.19	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,272.00	Dwelling Unit	248.00	2,289,600.00	3638
Regional Shopping Center	60.00	1000sqft	9.31	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Value changed to reflect the Fanita Ranch Specific Plan

Construction Phase - Construction phasing provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

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Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Trips and VMT - assume 1 hauling trip per day, 10 miles per trip (cut and fill balanced onsite)

On-road Fugitive Dust - assume 50% onsite roadways for hauling trips are paved

Grading - grading acreage provided by developer

Construction Off-road Equipment Mitigation - clean engine and dust control

Table Name	Column Name	Default Value	New Value
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tblAreaCoating	Area_Nonresidential_Interior	230405	0
tblAreaCoating	Area_Residential_Exterior	2677455	0
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tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
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tblOffRoadEquipment	HorsePower	187.00	150.00
tblOffRoadEquipment	HorsePower	187.00	150.00
tblOffRoadEquipment	HorsePower	187.00	150.00
tblOffRoadEquipment	HorsePower	187.00	150.00

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tblOffRoadEquipment	HorsePower	402.00	170.00
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tblOffRoadEquipment	HorsePower	402.00	170.00
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tblOffRoadEquipment	HorsePower	402.00	450.00
tblOffRoadEquipment	HorsePower	402.00	170.00
tblOffRoadEquipment	HorsePower	402.00	170.00
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tblOffRoadEquipment	HorsePower	402.00	170.00
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tblOffRoadEquipment	HorsePower	402.00	450.00
tblOffRoadEquipment	HorsePower	402.00	170.00
tblOffRoadEquipment	HorsePower	402.00	450.00
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tblOffRoadEquipment	HorsePower	97.00	170.00
tblOffRoadEquipment	HorsePower	97.00	170.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

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tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60

tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
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tblOffRoadEquipment	UsageHours	8.00	2.60
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tblOnRoadDust	HaulingPercentPave	100.00	50.00
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tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00

tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
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tblOnRoadDust	HaulingPercentPave	100.00	50.00
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tblTripsAndVMT	HaulingTripLength	20.00	3.00
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tblTripsAndVMT	VendorTripNumber	858.00	235.00
tblTripsAndVMT	VendorTripNumber	858.00	165.00
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tblTripsAndVMT	WorkerTripNumber	3,050.00	525.00
tblTripsAndVMT	WorkerTripNumber	3,050.00	838.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00
tblTripsAndVMT	WorkerTripNumber	3,050.00	588.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2023	6.2664	44.4506	55.2987	0.2054	11.1401	0.9774	12.1176	3.0027	0.9150	3.9176	0.0000	20,978.8115	20,978.8115	1.8365	0.0000	21,024.7234
2024	5.9482	42.5949	53.3801	0.2015	11.1401	0.8677	12.0078	3.0027	0.8119	3.8146	0.0000	20,596.2853	20,596.2853	1.8091	0.0000	20,641.5132
2025	5.6511	40.6658	51.5881	0.1976	11.1401	0.7638	11.9039	3.0027	0.7146	3.7172	0.0000	20,220.3864	20,220.3864	1.7848	0.0000	20,265.0052
2026	16.0462	128.3904	135.0449	0.4712	258.9902	3.6571	262.6473	31.0709	3.3879	34.4587	0.0000	47,397.2365	47,397.2365	7.4615	0.0000	47,583.7746
2027	15.7986	127.6847	132.9143	0.4661	179.8264	3.6509	182.9129	22.2547	3.3821	25.6368	0.0000	46,892.7400	46,892.7400	7.4343	0.0000	47,078.5983
2028	13.6607	112.1550	115.5367	0.3772	699.2846	3.5621	702.3681	73.0883	3.2999	75.9365	0.0000	37,630.2770	37,630.2770	6.9979	0.0000	37,802.8622
2029	13.4712	111.7637	114.3307	0.3744	85.5450	3.5573	88.5745	12.6517	3.2954	15.9471	0.0000	37,359.2772	37,359.2772	6.8897	0.0000	37,531.5191
2030	12.8028	54.7658	87.2678	0.3179	161.8940	1.4814	163.3754	19.5202	1.4782	20.9985	0.0000	33,792.7750	33,792.7750	1.3411	0.0000	33,826.3026
2031	8.2092	48.3279	78.6813	0.2893	15.0149	0.5646	15.5795	4.0411	0.5590	4.6002	0.0000	29,585.8949	29,585.8949	1.2324	0.0000	29,616.7042
2032	3.9445	26.2276	39.3242	0.1530	8.4748	0.2550	8.7298	2.2839	0.2519	2.5358	0.0000	15,649.6160	15,649.6160	0.6706	0.0000	15,666.3799
2033	3.8418	26.0671	38.8330	0.1520	8.4748	0.2529	8.7277	2.2839	0.2500	2.5339	0.0000	15,554.8975	15,554.8975	0.6654	0.0000	15,571.5327
Maximum	**16.0462**	**128.3904**	**135.0449**	**0.4712**	**699.2846**	**3.6571**	**702.3681**	**73.0883**	**3.3879**	**75.9365**	**0.0000**	**47,397.2365**	**47,397.2365**	**7.4615**	**0.0000**	**47,583.7746**

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	lb/day										lb/day					
2023	5.6602	38.8439	57.3262	0.2054	8.7087	0.7082	9.4168	2.4058	0.6697	3.0755	0.0000	20,978.8115	20,978.8115	1.8365	0.0000	21,024.7234
2024	5.3751	37.5296	55.3863	0.2015	8.7087	0.6335	9.3421	2.4058	0.5989	3.0047	0.0000	20,596.2853	20,596.2853	1.8091	0.0000	20,641.5132

2025	5.1205	36.2352	53.6284	0.1976	8.7086	0.5639	9.2725	2.4058	0.5331	2.9389	0.0000	20,220.3864	20,220.3864	1.7848	0.0000	20,265.0052
2026	10.5796	70.8399	156.4091	0.4712	66.4476	1.3190	67.7666	9.7331	1.2590	10.9921	0.0000	47,397.2365	47,397.2365	7.4615	0.0000	47,583.7746
2027	10.3321	70.1341	154.2785	0.4661	47.5069	1.3128	48.8197	7.8414	1.2532	9.0946	0.0000	46,892.7400	46,892.7400	7.4343	0.0000	47,078.5983
2028	8.2926	55.2937	136.6624	0.3772	154.3895	1.2604	155.2245	16.9351	1.2041	17.7376	0.0000	37,630.2770	37,630.2770	6.9979	0.0000	37,802.8622
2029	8.1031	54.9023	135.4563	0.3744	25.6912	1.2556	26.9468	4.8545	1.1995	6.0541	0.0000	37,359.2771	37,359.2771	6.8897	0.0000	37,531.5191
2030	6.7074	43.7480	121.9586	0.3179	39.4234	0.4842	39.9076	5.5241	0.4810	6.0051	0.0000	33,792.7750	33,792.7750	1.3411	0.0000	33,826.3026
2031	6.4664	43.3999	84.8591	0.2893	11.7271	0.4046	12.1316	3.2342	0.3990	3.6331	0.0000	29,585.8949	29,585.8949	1.2324	0.0000	29,616.7042
2032	3.2827	24.2446	41.1394	0.1530	6.6244	0.1962	6.8206	1.8297	0.1932	2.0229	0.0000	15,649.6160	15,649.6160	0.6706	0.0000	15,666.3799
2033	3.1800	24.0842	40.6482	0.1520	6.6244	0.1941	6.8185	1.8297	0.1912	2.0210	0.0000	15,554.8975	15,554.8975	0.6654	0.0000	15,571.5327
Maximum	**10.5796**	**70.8399**	**156.4091**	**0.4712**	**154.3895**	**1.3190**	**155.2245**	**16.9351**	**1.2590**	**17.7376**	**0.0000**	**47,397.2365**	**47,397.2365**	**7.4615**	**0.0000**	**47,583.7746**

	ROG	NOx	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	**30.80**	**34.57**	**-15.02**	**0.00**	**73.50**	**57.47**	**73.28**	**66.52**	**56.49**	**65.70**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664
Energy	1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044		15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779
Mobile	0.0000	0.0000	0.0000	0.0000	137.7703	0.0000	137.7703	33.8163	0.0000	33.8163		0.0000	0.0000	0.0000		0.0000
Total	**6,495.6295**	**140.1879**	**8,146.2704**	**14.4017**	**137.7703**	**1,109.7785**	**1,247.5488**	**33.8163**	**1,109.7785**	**1,143.5948**	**116,113.6062**	**64,993.5185**	**181,107.1247**	**107.8752**	**9.4240**	**186,612.3443**

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	lb/day										lb/day					
Area	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664
Energy	1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044		15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779
Mobile	0.0000	0.0000	0.0000	0.0000	137.7703	0.0000	137.7703	33.8163	0.0000	33.8163		0.0000	0.0000	0.0000		0.0000
Total	**6,495.6295**	**140.1879**	**8,146.2704**	**14.4017**	**137.7703**	**1,109.7785**	**1,247.5488**	**33.8163**	**1,109.7785**	**1,143.5948**	**116,113.6062**	**64,993.5185**	**181,107.1247**	**107.8752**	**9.4240**	**186,612.3443**

	ROG	NOx	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	Phase 1 Building Construction	Building Construction	9/18/2023	3/26/2027	5	920	
2	Phase 2 Surface Improvements	Paving	2/23/2026	3/19/2027	5	280	
3	Phase 3 Site Preparation	Site Preparation	3/24/2026	5/18/2026	5	40	
4	Phase 3 Grading	Grading	5/19/2026	3/20/2028	5	480	
5	Phase 2 Building Construction	Building Construction	9/28/2026	6/28/2029	5	720	
6	Phase 3 Utilities	Trenching	11/22/2027	12/14/2028	5	280	
7	Phase 3 Surface Improvements	Paving	5/22/2028	6/14/2029	5	280	
8	Phase 4 Site Preparation	Site Preparation	6/20/2028	8/11/2028	5	40	
9	Phase 4 Grading	Grading	8/14/2028	6/14/2030	5	480	
10	Phase 3 Building Construction	Building Construction	12/18/2028	7/25/2031	5	680	

11	Phase 4 Utilities	Trenching	8/20/2029	11/8/2030	5	320	
12	Phase 4 Surface Improvements	Paving	2/25/2030	3/21/2031	5	280	
13	Phase 4 Building Construction	Building Construction	11/25/2030	7/1/2033	5	680	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1 Building Construction	Cement and Mortar Mixers	1	3.00	505	0.56
Phase 1 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 1 Building Construction	Off-Highway Trucks	1	1.30	170	0.38
Phase 1 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 1 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 2 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 2 Surface Improvements	Graders	1	0.60	150	0.41
Phase 2 Surface Improvements	Graders	1	0.60	150	0.41
Phase 2 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 2 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 2 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 2 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	36	0.38

Phase 2 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 2 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 2 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 2 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 3 Site Preparation	Rubber Tired Dozers	1	4.20	436	0.40
Phase 3 Site Preparation	Rubber Tired Loaders	1	4.20	249	0.36
Phase 3 Grading	Excavators	1	1.10	760	0.38
Phase 3 Grading	Graders	1	2.60	275	0.41
Phase 3 Grading	Graders	1	1.10	275	0.41
Phase 3 Grading	Off-Highway Trucks	3	2.60	300	0.38
Phase 3 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 3 Grading	Off-Highway Trucks	2	1.10	300	0.38
Phase 3 Grading	Plate Compactors	1	2.60	554	0.43
Phase 3 Grading	Rubber Tired Dozers	1	2.60	600	0.40
Phase 3 Grading	Rubber Tired Dozers	1	2.60	354	0.40
Phase 3 Grading	Rubber Tired Dozers	1	2.60	436	0.40
Phase 3 Grading	Rubber Tired Dozers	1	1.10	600	0.40
Phase 3 Grading	Rubber Tired Dozers	2	1.10	436	0.40
Phase 3 Grading	Scrapers	10	2.60	600	0.48
Phase 3 Grading	Tractors/Loaders/Backhoes	1	0.70	249	0.37
Phase 2 Building Construction	Cement and Mortar Mixers	1	2.00	505	0.56
Phase 2 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 2 Building Construction	Off-Highway Trucks	1	0.80	170	0.38
Phase 2 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 2 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 3 Utilities	Excavators	1	1.80	417	0.38
Phase 3 Utilities	Excavators	1	0.90	235	0.38
Phase 3 Utilities	Excavators	1	1.70	235	0.38
Phase 3 Utilities	Excavators	1	2.00	235	0.38
Phase 3 Utilities	Excavators	1	1.30	417	0.38
Phase 3 Utilities	Excavators	1	0.60	235	0.38
Phase 3 Utilities	Excavators	1	5.50	235	0.38

Phase 3 Utilities	Excavators	1	0.50	417	0.38
Phase 3 Utilities	Excavators	1	0.30	235	0.38
Phase 3 Utilities	Excavators	1	0.30	235	0.38
Phase 3 Utilities	Excavators	1	3.60	140	0.38
Phase 3 Utilities	Excavators	1	2.10	85	0.38
Phase 3 Utilities	Excavators	1	1.60	417	0.38
Phase 3 Utilities	Excavators	1	0.80	235	0.38
Phase 3 Utilities	Excavators	1	2.40	235	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.50	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.80	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	1.90	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.20	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.00	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.10	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.40	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.80	170	0.38
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.40	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	0.90	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.00	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.00	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	2.70	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	0.40	170	0.37

Phase 3 Utilities	Tractors/Loaders/Backhoes	1	0.10	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	3.00	164	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.20	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.20	170	0.37
Phase 3 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 3 Surface Improvements	Graders	1	0.60	150	0.41
Phase 3 Surface Improvements	Graders	1	0.60	150	0.41
Phase 3 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 3 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 3 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 3 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 3 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 3 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 3 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 3 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 3 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 3 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 3 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 4 Site Preparation	Rubber Tired Dozers	1	4.20	436	0.40
Phase 4 Site Preparation	Rubber Tired Loaders	1	4.20	249	0.36
Phase 4 Grading	Excavators	1	1.10	760	0.38
Phase 4 Grading	Graders	1	2.60	275	0.41
Phase 4 Grading	Graders	1	1.10	275	0.41
Phase 4 Grading	Off-Highway Trucks	3	2.60	300	0.38
Phase 4 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 4 Grading	Off-Highway Trucks	2	1.10	300	0.38
Phase 4 Grading	Plate Compactors	1	2.60	554	0.43

Phase 4 Grading	Rubber Tired Dozers	1	2.60	600	0.40
Phase 4 Grading	Rubber Tired Dozers	1	2.60	354	0.40
Phase 4 Grading	Rubber Tired Dozers	1	2.60	436	0.40
Phase 4 Grading	Rubber Tired Dozers	1	1.10	600	0.40
Phase 4 Grading	Rubber Tired Dozers	2	1.10	436	0.40
Phase 4 Grading	Scrapers	10	2.60	600	0.48
Phase 4 Grading	Tractors/Loaders/Backhoes	1	0.70	249	0.37
Phase 3 Building Construction	Cement and Mortar Mixers	1	2.00	505	0.56
Phase 3 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 3 Building Construction	Off-Highway Trucks	1	0.80	170	0.38
Phase 3 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 3 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 4 Utilities	Excavators	1	1.60	417	0.38
Phase 4 Utilities	Excavators	1	0.80	235	0.38
Phase 4 Utilities	Excavators	1	1.50	235	0.38
Phase 4 Utilities	Excavators	1	1.80	235	0.38
Phase 4 Utilities	Excavators	1	1.10	417	0.38
Phase 4 Utilities	Excavators	1	0.60	235	0.38
Phase 4 Utilities	Excavators	1	4.80	235	0.38
Phase 4 Utilities	Excavators	1	0.50	417	0.38
Phase 4 Utilities	Excavators	1	0.20	235	0.38
Phase 4 Utilities	Excavators	1	0.20	235	0.38
Phase 4 Utilities	Excavators	1	3.10	140	0.38
Phase 4 Utilities	Excavators	1	1.90	85	0.38
Phase 4 Utilities	Excavators	1	1.40	417	0.38
Phase 4 Utilities	Excavators	1	0.70	235	0.38
Phase 4 Utilities	Excavators	1	2.10	235	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.50	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.30	450	0.38

Phase 4 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.40	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.70	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	1.70	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.00	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.10	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.50	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	1.20	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.70	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.90	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.80	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	2.40	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.30	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.10	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	2.70	164	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	1.10	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	1.10	170	0.37
Phase 4 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 4 Surface Improvements	Graders	1	0.60	150	0.41
Phase 4 Surface Improvements	Graders	1	0.60	150	0.41
Phase 4 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38

Phase 4 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 4 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 4 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 4 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 4 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 4 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 4 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 4 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 4 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 4 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 4 Building Construction	Cement and Mortar Mixers	1	3.00	505	0.56
Phase 4 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 4 Building Construction	Off-Highway Trucks	1	1.30	170	0.38
Phase 4 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 4 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 1 Building Construction	Cranes	1	7.00	231	0.29
Phase 3 Building Construction	Cranes	1	7.00	231	0.29
Phase 4 Building Construction	Cranes	1	7.00	231	0.29
Phase 2 Building Construction	Cranes	1	7.00	231	0.29
Phase 1 Building Construction	Forklifts	3	8.00	89	0.20
Phase 3 Building Construction	Forklifts	3	8.00	89	0.20
Phase 4 Building Construction	Forklifts	3	8.00	89	0.20
Phase 2 Building Construction	Forklifts	3	8.00	89	0.20
Phase 1 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 3 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 4 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 3 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 4 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 2 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 3 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Phase 4 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 1 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Building Construction	Welders	1	8.00	46	0.45
Phase 4 Building Construction	Welders	1	8.00	46	0.45
Phase 2 Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 1 Building Construction	18	1,099.00	312.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Grading	29	73.00	0.00	17,355.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Building Construction	18	588.00	165.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Utilities	43	108.00	0.00	280.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Grading	29	73.00	0.00	7,856.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Building Construction	18	525.00	147.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Utilities	43	108.00	0.00	320.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Building Construction	18	838.00	235.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Phase 1 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1872	18.7572	23.0956	0.0409		0.8898	0.8898		0.8333	0.8333		3,909.0276	3,909.0276	1.0457		3,935.1701
Total	**2.1872**	**18.7572**	**23.0956**	**0.0409**		**0.8898**	**0.8898**		**0.8333**	**0.8333**		**3,909.0276**	**3,909.0276**	**1.0457**		**3,935.1701**

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	lb/day										lb/day					
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
Vendor	0.6765	23.6368	7.0241	0.0813	2.1121	0.0279	2.1400	0.6080	0.0266	0.6346		8,777.0915	8,777.0915	0.5764		8,791.5021
Worker	3.4027	2.0567	25.1790	0.0832	9.0280	0.0598	9.0878	2.3947	0.0551	2.4497		8,292.6924	8,292.6924	0.2144		8,298.0513
Total	**4.0792**	**25.6934**	**32.2032**	**0.1645**	**11.1401**	**0.0877**	**11.2278**	**3.0027**	**0.0817**	**3.0844**		**17,069.7839**	**17,069.7839**	**0.7908**		**17,089.5534**

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	lb/day										lb/day					
Off-Road	1.5810	13.1505	25.1230	0.0409		0.6205	0.6205		0.5880	0.5880	0.0000	3,909.0276	3,909.0276	1.0457		3,935.1701
Total	**1.5810**	**13.1505**	**25.1230**	**0.0409**		**0.6205**	**0.6205**		**0.5880**	**0.5880**	**0.0000**	**3,909.0276**	**3,909.0276**	**1.0457**		**3,935.1701**

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	lb/day										lb/day					
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
Vendor	0.6765	23.6368	7.0241	0.0813	1.7206	0.0279	1.7485	0.5119	0.0266	0.5385		8,777.0915	8,777.0915	0.5764		8,791.5021
Worker	3.4027	2.0567	25.1790	0.0832	6.9880	0.0598	7.0478	1.8939	0.0551	1.9490		8,292.6924	8,292.6924	0.2144		8,298.0513
Total	**4.0792**	**25.6934**	**32.2032**	**0.1645**	**8.7087**	**0.0877**	**8.7963**	**2.4058**	**0.0817**	**2.4875**		**17,069.7839**	**17,069.7839**	**0.7908**		**17,089.5534**

3.2 Phase 1 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0637	17.4009	23.0335	0.0409		0.7818	0.7818		0.7319	0.7319		3,909.6871	3,909.6871	1.0423		3,935.7436
Total	**2.0637**	**17.4009**	**23.0335**	**0.0409**		**0.7818**	**0.7818**		**0.7319**	**0.7319**		**3,909.6871**	**3,909.6871**	**1.0423**		**3,935.7436**

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	lb/day										lb/day					
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
Vendor	0.6526	23.3073	6.8051	0.0806	2.1121	0.0272	2.1393	0.6080	0.0260	0.6340		8,720.6384	8,720.6384	0.5698		8,734.8832
Worker	3.2320	1.8867	23.5416	0.0799	9.0280	0.0587	9.0867	2.3947	0.0541	2.4487		7,965.9598	7,965.9598	0.1971		7,970.8864
Total	**3.8846**	**25.1940**	**30.3466**	**0.1605**	**11.1401**	**0.0859**	**11.2260**	**3.0027**	**0.0800**	**3.0827**		**16,686.5982**	**16,686.5982**	**0.7669**		**16,705.7696**

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	lb/day										lb/day					
Off-Road	1.4906	12.3356	25.0397	0.0409		0.5476	0.5476		0.5189	0.5189	0.0000	3,909.6871	3,909.6871	1.0423		3,935.7436
Total	**1.4906**	**12.3356**	**25.0397**	**0.0409**		**0.5476**	**0.5476**		**0.5189**	**0.5189**	**0.0000**	**3,909.6871**	**3,909.6871**	**1.0423**		**3,935.7436**

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	lb/day											lb/day				
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
Vendor	0.6526	23.3073	6.8051	0.0806	1.7206	0.0272	1.7478	0.5119	0.0260	0.5379		8,720.6384	8,720.6384	0.5698		8,734.8832
Worker	3.2320	1.8867	23.5416	0.0799	6.9880	0.0587	7.0467	1.8939	0.0541	1.9480		7,965.9598	7,965.9598	0.1971		7,970.8864
Total	**3.8846**	**25.1940**	**30.3466**	**0.1605**	**8.7087**	**0.0859**	**8.7945**	**2.4058**	**0.0800**	**2.4859**		**16,686.5982**	**16,686.5982**	**0.7669**		**16,705.7696**

3.2 Phase 1 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Off-Road	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361		3,909.7288	3,909.7288	1.0386		3,935.6943
Total	**1.9340**	**15.9556**	**22.9257**	**0.0409**		**0.6796**	**0.6796**		**0.6361**	**0.6361**		**3,909.7288**	**3,909.7288**	**1.0386**		**3,935.6943**

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	lb/day											lb/day				
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
Vendor	0.6335	22.9705	6.6722	0.0800	2.1121	0.0264	2.1385	0.6080	0.0253	0.6333		8,666.9848	8,666.9848	0.5642		8,681.0885
Worker	3.0836	1.7398	21.9902	0.0767	9.0280	0.0578	9.0858	2.3947	0.0532	2.4479		7,643.6727	7,643.6727	0.1820		7,648.2224

Total	**3.7171**	**24.7103**	**28.6624**	**0.1567**	**11.1401**	**0.0842**	**11.2243**	**3.0027**	**0.0784**	**3.0811**		**16,310.6576**	**16,310.6576**	**0.7461**		**16,329.3109**

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	lb/day										lb/day					
Off-Road	1.4034	11.5249	24.9661	0.0409		0.4797	0.4797		0.4546	0.4546	0.0000	3,909.7288	3,909.7288	1.0386		3,935.6943
Total	**1.4034**	**11.5249**	**24.9661**	**0.0409**		**0.4797**	**0.4797**		**0.4546**	**0.4546**	**0.0000**	**3,909.7288**	**3,909.7288**	**1.0386**		**3,935.6943**

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	lb/day										lb/day					
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
Vendor	0.6335	22.9705	6.6722	0.0800	1.7206	0.0264	1.7471	0.5119	0.0253	0.5372		8,666.9848	8,666.9848	0.5642		8,681.0885
Worker	3.0836	1.7398	21.9902	0.0767	6.9880	0.0578	7.0458	1.8939	0.0532	1.9471		7,643.6727	7,643.6727	0.1820		7,648.2224
Total	**3.7171**	**24.7103**	**28.6624**	**0.1567**	**8.7086**	**0.0842**	**8.7929**	**2.4058**	**0.0784**	**2.4843**		**16,310.6576**	**16,310.6576**	**0.7461**		**16,329.3109**

3.2 Phase 1 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361		3,909.7288	3,909.7288	1.0386		3,935.6943
Total	**1.9340**	**15.9556**	**22.9257**	**0.0409**		**0.6796**	**0.6796**		**0.6361**	**0.6361**		**3,909.7288**	**3,909.7288**	**1.0386**		**3,935.6943**

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	lb/day										lb/day					
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
Vendor	0.6174	22.6445	6.5805	0.0795	2.1121	0.0257	2.1378	0.6080	0.0246	0.6326		8,616.7732	8,616.7732	0.5587		8,630.7416
Worker	2.9532	1.6183	20.6815	0.0738	9.0280	0.0560	9.0840	2.3947	0.0515	2.4462		7,363.6770	7,363.6770	0.1697		7,367.9183
Total	**3.5706**	**24.2628**	**27.2620**	**0.1533**	**11.1401**	**0.0817**	**11.2218**	**3.0027**	**0.0761**	**3.0788**		**15,980.4502**	**15,980.4502**	**0.7284**		**15,998.6599**

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	lb/day										lb/day					
Off-Road	1.4034	11.5249	24.9661	0.0409		0.4797	0.4797		0.4546	0.4546	0.0000	3,909.7288	3,909.7288	1.0386		3,935.6943
Total	**1.4034**	**11.5249**	**24.9661**	**0.0409**		**0.4797**	**0.4797**		**0.4546**	**0.4546**	**0.0000**	**3,909.7288**	**3,909.7288**	**1.0386**		**3,935.6943**

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	lb/day										lb/day					
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
Vendor	0.6174	22.6445	6.5805	0.0795	1.7206	0.0257	1.7463	0.5119	0.0246	0.5365		8,616.7732	8,616.7732	0.5587		8,630.7416
Worker	2.9532	1.6183	20.6815	0.0738	6.9880	0.0560	7.0440	1.8939	0.0515	1.9455		7,363.6770	7,363.6770	0.1697		7,367.9183
Total	**3.5706**	**24.2628**	**27.2620**	**0.1533**	**8.7086**	**0.0817**	**8.7903**	**2.4058**	**0.0761**	**2.4819**		**15,980.4502**	**15,980.4502**	**0.7284**		**15,998.6599**

3.2 Phase 1 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361		3,909.7288	3,909.7288	1.0386		3,935.6943
Total	**1.9340**	**15.9556**	**22.9257**	**0.0409**		**0.6796**	**0.6796**		**0.6361**	**0.6361**		**3,909.7288**	**3,909.7288**	**1.0386**		**3,935.6943**

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	lb/day										lb/day					
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
Vendor	0.6038	22.3325	6.5024	0.0789	2.1121	0.0251	2.1372	0.6080	0.0240	0.6320		8,570.8412	8,570.8412	0.5541		8,584.6929
Worker	2.8232	1.5108	19.5218	0.0714	9.0280	0.0530	9.0810	2.3947	0.0488	2.4434		7,117.1314	7,117.1314	0.1589		7,121.1043
Total	**3.4270**	**23.8433**	**26.0242**	**0.1503**	**11.1401**	**0.0781**	**11.2182**	**3.0027**	**0.0728**	**3.0754**		**15,687.9726**	**15,687.9726**	**0.7130**		**15,705.7972**

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	lb/day										lb/day					
Off-Road	1.4034	11.5249	24.9661	0.0409		0.4797	0.4797		0.4546	0.4546	0.0000	3,909.7288	3,909.7288	1.0386		3,935.6943
Total	**1.4034**	**11.5249**	**24.9661**	**0.0409**		**0.4797**	**0.4797**		**0.4546**	**0.4546**	**0.0000**	**3,909.7288**	**3,909.7288**	**1.0386**		**3,935.6943**

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	lb/day										lb/day					
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
Vendor	0.6038	22.3325	6.5024	0.0789	1.7206	0.0251	1.7457	0.5119	0.0240	0.5359		8,570.8412	8,570.8412	0.5541		8,584.6929

Worker	2.8232	1.5108	19.5218	0.0714	6.9880	0.0530	7.0410	1.8939	0.0488	1.9427		7,117.1314	7,117.1314	0.1589		7,121.1043
Total	**3.4270**	**23.8433**	**26.0242**	**0.1503**	**8.7086**	**0.0781**	**8.7867**	**2.4058**	**0.0728**	**2.4786**		**15,687.9726**	**15,687.9726**	**0.7130**		**15,705.7972**

3.3 Phase 2 Surface Improvements - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.5923	1,470.5923	0.4756		1,482.4827
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6138**	**4.1849**	**5.3019**	**0.0152**		**0.1746**	**0.1746**		**0.1606**	**0.1606**		**1,470.5923**	**1,470.5923**	**0.4756**		**1,482.4827**

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	lb/day										lb/day					
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
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
Worker	0.4031	0.2209	2.8228	0.0101	1.2322	7.6400e-003	1.2399	0.3268	7.0300e-003	0.3339		1,005.0515	1,005.0515	0.0232		1,005.6304
Total	**0.4031**	**0.2209**	**2.8228**	**0.0101**	**1.2322**	**7.6400e-003**	**1.2399**	**0.3268**	**7.0300e-003**	**0.3339**		**1,005.0515**	**1,005.0515**	**0.0232**		**1,005.6304**

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	lb/day										lb/day					
Off-Road	0.1903	0.9261	7.9447	0.0152		0.0261	0.0261		0.0260	0.0260	0.0000	1,470.5922	1,470.5922	0.4756		1,482.4827
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1903**	**0.9261**	**7.9447**	**0.0152**		**0.0261**	**0.0261**		**0.0260**	**0.0260**	**0.0000**	**1,470.5922**	**1,470.5922**	**0.4756**		**1,482.4827**

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	lb/day										lb/day					
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
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
Worker	0.4031	0.2209	2.8228	0.0101	0.9538	7.6400e-003	0.9614	0.2585	7.0300e-003	0.2655		1,005.0515	1,005.0515	0.0232		1,005.6304
Total	**0.4031**	**0.2209**	**2.8228**	**0.0101**	**0.9538**	**7.6400e-003**	**0.9614**	**0.2585**	**7.0300e-003**	**0.2655**		**1,005.0515**	**1,005.0515**	**0.0232**		**1,005.6304**

3.3 Phase 2 Surface Improvements - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.5923	1,470.5923	0.4756		1,482.4827

Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6138**	**4.1849**	**5.3019**	**0.0152**		**0.1746**	**0.1746**		**0.1606**	**0.1606**		**1,470.5923**	**1,470.5923**	**0.4756**		**1,482.4827**

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	lb/day										lb/day					
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
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
Worker	0.3853	0.2062	2.6645	9.7400e-003	1.2322	7.2300e-003	1.2395	0.3268	6.6500e-003	0.3335		971.4010	971.4010	0.0217		971.9433
Total	**0.3853**	**0.2062**	**2.6645**	**9.7400e-003**	**1.2322**	**7.2300e-003**	**1.2395**	**0.3268**	**6.6500e-003**	**0.3335**		**971.4010**	**971.4010**	**0.0217**		**971.9433**

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	lb/day										lb/day					
Off-Road	0.1903	0.9261	7.9447	0.0152		0.0261	0.0261		0.0260	0.0260	0.0000	1,470.5922	1,470.5922	0.4756		1,482.4827
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1903**	**0.9261**	**7.9447**	**0.0152**		**0.0261**	**0.0261**		**0.0260**	**0.0260**	**0.0000**	**1,470.5922**	**1,470.5922**	**0.4756**		**1,482.4827**

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	lb/day										lb/day					
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
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
Worker	0.3853	0.2062	2.6645	9.7400e-003	0.9538	7.2300e-003	0.9610	0.2585	6.6500e-003	0.2652		971.4010	971.4010	0.0217		971.9433
Total	**0.3853**	**0.2062**	**2.6645**	**9.7400e-003**	**0.9538**	**7.2300e-003**	**0.9610**	**0.2585**	**6.6500e-003**	**0.2652**		**971.4010**	**971.4010**	**0.0217**		**971.9433**

3.4 Phase 3 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6895	0.0000	8.6895	2.3348	0.0000	2.3348			0.0000			0.0000
Off-Road	1.2681	11.9786	14.6445	0.0245		0.4998	0.4998		0.4598	0.4598		2,371.8801	2,371.8801	0.7671		2,391.0580
Total	**1.2681**	**11.9786**	**14.6445**	**0.0245**	**8.6895**	**0.4998**	**9.1893**	**2.3348**	**0.4598**	**2.7946**		**2,371.8801**	**2,371.8801**	**0.7671**		**2,391.0580**

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	lb/day										lb/day					
Hauling	1.5700e-003	0.0861	0.0175	1.9000e-004	2.2092	6.0000e-005	2.2092	0.2208	5.0000e-005	0.2208		20.7608	20.7608	2.1400e-003		20.8143

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
Worker	0.0134	7.3600e-003	0.0941	3.4000e-004	0.0411	2.5000e-004	0.0413	0.0109	2.3000e-004	0.0111		33.5017	33.5017	7.7000e-004		33.5210
Total	**0.0150**	**0.0935**	**0.1115**	**5.3000e-004**	**2.2502**	**3.1000e-004**	**2.2506**	**0.2317**	**2.8000e-004**	**0.2320**		**54.2625**	**54.2625**	**2.9100e-003**		**54.3353**

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	lb/day										lb/day					
Fugitive Dust					2.1350	0.0000	2.1350	0.5737	0.0000	0.5737			0.0000			0.0000
Off-Road	0.4681	3.4009	14.5446	0.0245		0.1281	0.1281		0.1203	0.1203	0.0000	2,371.8801	2,371.8801	0.7671		2,391.0580
Total	**0.4681**	**3.4009**	**14.5446**	**0.0245**	**2.1350**	**0.1281**	**2.2631**	**0.5737**	**0.1203**	**0.6939**	**0.0000**	**2,371.8801**	**2,371.8801**	**0.7671**		**2,391.0580**

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	lb/day										lb/day					
Hauling	1.5700e-003	0.0861	0.0175	1.9000e-004	0.4744	6.0000e-005	0.4745	0.0476	5.0000e-005	0.0476		20.7608	20.7608	2.1400e-003		20.8143
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
Worker	0.0134	7.3600e-003	0.0941	3.4000e-004	0.0318	2.5000e-004	0.0321	8.6200e-003	2.3000e-004	8.8500e-003		33.5017	33.5017	7.7000e-004		33.5210
Total	**0.0150**	**0.0935**	**0.1115**	**5.3000e-004**	**0.5062**	**3.1000e-004**	**0.5065**	**0.0562**	**2.8000e-004**	**0.0565**		**54.2625**	**54.2625**	**2.9100e-003**		**54.3353**

3.5 Phase 3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000
Off-Road	5.5684	52.6035	39.3894	0.1207		2.0263	2.0263		1.8642	1.8642		11,686.3962	11,686.3962	3.7796		11,780.8866
Total	**5.5684**	**52.6035**	**39.3894**	**0.1207**	**4.9019**	**2.0263**	**6.9282**	**2.4910**	**1.8642**	**4.3552**		**11,686.3962**	**11,686.3962**	**3.7796**		**11,780.8866**

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	lb/day										lb/day					
Hauling	0.0566	3.1142	0.6309	6.7700e-003	235.1690	2.0100e-003	235.1710	23.4885	1.9200e-003	23.4904		750.6323	750.6323	0.0774		752.5673
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
Worker	0.1962	0.1075	1.3738	4.9000e-003	0.5997	3.7200e-003	0.6034	0.1591	3.4200e-003	0.1625		489.1250	489.1250	0.0113		489.4068
Total	**0.2528**	**3.2217**	**2.0047**	**0.0117**	**235.7687**	**5.7300e-003**	**235.7744**	**23.6476**	**5.3400e-003**	**23.6529**		**1,239.7573**	**1,239.7573**	**0.0887**		**1,241.9740**

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	lb/day										lb/day					
Fugitive Dust					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000			0.0000

Off-Road	1.4879	6.4839	54.2687	0.1207		0.2001	0.2001		0.1999	0.1999	0.0000	11,686.3962	11,686.3962	3.7796		11,780.8866
Total	**1.4879**	**6.4839**	**54.2687**	**0.1207**	**1.2044**	**0.2001**	**1.4045**	**0.6121**	**0.1999**	**0.8119**	**0.0000**	**11,686.3962**	**11,686.3962**	**3.7796**		**11,780.8866**

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	lb/day										lb/day					
Hauling	0.0566	3.1142	0.6309	6.7700e-003	50.4678	2.0100e-003	50.4698	5.0469	1.9200e-003	5.0488		750.6323	750.6323	0.0774		752.5673
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
Worker	0.1962	0.1075	1.3738	4.9000e-003	0.4642	3.7200e-003	0.4679	0.1258	3.4200e-003	0.1292		489.1250	489.1250	0.0113		489.4068
Total	**0.2528**	**3.2217**	**2.0047**	**0.0117**	**50.9320**	**5.7300e-003**	**50.9377**	**5.1727**	**5.3400e-003**	**5.1780**		**1,239.7573**	**1,239.7573**	**0.0887**		**1,241.9740**

3.5 Phase 3 Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000
Off-Road	5.5684	52.6035	39.3894	0.1207		2.0263	2.0263		1.8642	1.8642		11,686.3962	11,686.3962	3.7796		11,780.8866
Total	**5.5684**	**52.6035**	**39.3894**	**0.1207**	**4.9019**	**2.0263**	**6.9282**	**2.4910**	**1.8642**	**4.3552**		**11,686.3962**	**11,686.3962**	**3.7796**		**11,780.8866**

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	lb/day										lb/day					
Hauling	0.0557	3.0723	0.6352	6.7100e-003	146.8769	1.9300e-003	146.8788	14.6723	1.8400e-003	14.6741		744.8411	744.8411	0.0760		746.7413
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
Worker	0.1875	0.1004	1.2967	4.7400e-003	0.5997	3.5200e-003	0.6032	0.1591	3.2400e-003	0.1623		472.7485	472.7485	0.0106		473.0124
Total	**0.2432**	**3.1726**	**1.9320**	**0.0115**	**147.4766**	**5.4500e-003**	**147.4820**	**14.8314**	**5.0800e-003**	**14.8364**		**1,217.5896**	**1,217.5896**	**0.0866**		**1,219.7537**

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	lb/day										lb/day					
Fugitive Dust					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000			0.0000
Off-Road	1.4879	6.4839	54.2687	0.1207		0.2001	0.2001		0.1999	0.1999	0.0000	11,686.3962	11,686.3962	3.7796		11,780.8866
Total	**1.4879**	**6.4839**	**54.2687**	**0.1207**	**1.2044**	**0.2001**	**1.4045**	**0.6121**	**0.1999**	**0.8119**	**0.0000**	**11,686.3962**	**11,686.3962**	**3.7796**		**11,780.8866**

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	lb/day										lb/day					
Hauling	0.0557	3.0723	0.6352	6.7100e-003	31.5271	1.9300e-003	31.5290	3.1551	1.8400e-003	3.1570		744.8411	744.8411	0.0760		746.7413

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
Worker	0.1875	0.1004	1.2967	4.7400e-003	0.4642	3.5200e-003	0.4677	0.1258	3.2400e-003	0.1290		472.7485	472.7485	0.0106		473.0124
Total	**0.2432**	**3.1726**	**1.9320**	**0.0115**	**31.9913**	**5.4500e-003**	**31.9967**	**3.2809**	**5.0800e-003**	**3.2860**		**1,217.5896**	**1,217.5896**	**0.0866**		**1,219.7537**

3.5 Phase 3 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000
Off-Road	5.5684	52.6035	39.3894	0.1207		2.0263	2.0263		1.8642	1.8642		11,686.3962	11,686.3962	3.7796		11,780.8866
Total	**5.5684**	**52.6035**	**39.3894**	**0.1207**	**4.9019**	**2.0263**	**6.9282**	**2.4910**	**1.8642**	**4.3552**		**11,686.3962**	**11,686.3962**	**3.7796**		**11,780.8866**

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	lb/day										lb/day					
Hauling	0.0549	3.0354	0.6431	6.6500e-003	684.4644	1.8500e-003	684.4662	68.3519	1.7700e-003	68.3536		739.6871	739.6871	0.0747		741.5553
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
Worker	0.1785	0.0940	1.2297	4.5900e-003	0.5997	3.2600e-003	0.6029	0.1591	3.0000e-003	0.1621		458.3863	458.3863	9.9500e-003		458.6351
Total	**0.2334**	**3.1294**	**1.8728**	**0.0112**	**685.0641**	**5.1100e-003**	**685.0692**	**68.5109**	**4.7700e-003**	**68.5157**		**1,198.0734**	**1,198.0734**	**0.0847**		**1,200.1904**

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	lb/day										lb/day					
Fugitive Dust					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000			0.0000
Off-Road	1.4879	6.4839	54.2687	0.1207		0.2001	0.2001		0.1999	0.1999	0.0000	11,686.3962	11,686.3962	3.7796		11,780.8866
Total	**1.4879**	**6.4839**	**54.2687**	**0.1207**	**1.2044**	**0.2001**	**1.4045**	**0.6121**	**0.1999**	**0.8119**	**0.0000**	**11,686.3962**	**11,686.3962**	**3.7796**		**11,780.8866**

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	lb/day										lb/day					
Hauling	0.0549	3.0354	0.6431	6.6500e-003	146.8520	1.8500e-003	146.8539	14.6736	1.7700e-003	14.6754		739.6871	739.6871	0.0747		741.5553
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
Worker	0.1785	0.0940	1.2297	4.5900e-003	0.4642	3.2600e-003	0.4674	0.1258	3.0000e-003	0.1288		458.3863	458.3863	9.9500e-003		458.6351
Total	**0.2334**	**3.1294**	**1.8728**	**0.0112**	**147.3162**	**5.1100e-003**	**147.3213**	**14.7994**	**4.7700e-003**	**14.8042**		**1,198.0734**	**1,198.0734**	**0.0847**		**1,200.1904**

3.6 Phase 2 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.5112	3,608.5112	0.9412		3,632.0412

Total	**1.7971**	**15.0997**	**20.7931**	**0.0378**		**0.6381**	**0.6381**		**0.5979**	**0.5979**		**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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
Vendor	0.3265	11.9754	3.4801	0.0420	1.1170	0.0136	1.1306	0.3215	0.0130	0.3345		4,556.9474	4,556.9474	0.2955		4,564.3345
Worker	1.5801	0.8659	11.0653	0.0395	4.8303	0.0300	4.8602	1.2812	0.0276	1.3088		3,939.8017	3,939.8017	0.0908		3,942.0710
Total	**1.9065**	**12.8413**	**14.5454**	**0.0815**	**5.9473**	**0.0436**	**5.9908**	**1.6028**	**0.0406**	**1.6433**		**8,496.7491**	**8,496.7491**	**0.3863**		**8,506.4055**

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	lb/day										lb/day					
Off-Road	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.5112	3,608.5112	0.9412		3,632.0412
Total	**1.3650**	**11.3583**	**22.5948**	**0.0378**		**0.4746**	**0.4746**		**0.4495**	**0.4495**	**0.0000**	**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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
Vendor	0.3265	11.9754	3.4801	0.0420	0.9100	0.0136	0.9235	0.2707	0.0130	0.2837		4,556.9474	4,556.9474	0.2955		4,564.3345
Worker	1.5801	0.8659	11.0653	0.0395	3.7388	0.0300	3.7688	1.0133	0.0276	1.0409		3,939.8017	3,939.8017	0.0908		3,942.0710
Total	**1.9065**	**12.8413**	**14.5454**	**0.0815**	**4.6488**	**0.0436**	**4.6923**	**1.2840**	**0.0406**	**1.3246**		**8,496.7491**	**8,496.7491**	**0.3863**		**8,506.4055**

3.6 Phase 2 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.5112	3,608.5112	0.9412		3,632.0412
Total	**1.7971**	**15.0997**	**20.7931**	**0.0378**		**0.6381**	**0.6381**		**0.5979**	**0.5979**		**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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

Vendor	0.3193	11.8105	3.4388	0.0418	1.1170	0.0133	1.1303	0.3215	0.0127	0.3342		4,532.6564	4,532.6564	0.2930		4,539.9818
Worker	1.5105	0.8083	10.4448	0.0382	4.8303	0.0283	4.8586	1.2812	0.0261	1.3073		3,807.8920	3,807.8920	0.0850		3,810.0176
Total	**1.8299**	**12.6188**	**13.8836**	**0.0799**	**5.9473**	**0.0416**	**5.9889**	**1.6028**	**0.0388**	**1.6415**		**8,340.5484**	**8,340.5484**	**0.3780**		**8,349.9994**

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	lb/day										lb/day					
Off-Road	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.5112	3,608.5112	0.9412		3,632.0412
Total	**1.3650**	**11.3583**	**22.5948**	**0.0378**		**0.4746**	**0.4746**		**0.4495**	**0.4495**	**0.0000**	**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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
Vendor	0.3193	11.8105	3.4388	0.0418	0.9100	0.0133	0.9232	0.2707	0.0127	0.2834		4,532.6564	4,532.6564	0.2930		4,539.9818
Worker	1.5105	0.8083	10.4448	0.0382	3.7388	0.0283	3.7672	1.0133	0.0261	1.0394		3,807.8920	3,807.8920	0.0850		3,810.0176
Total	**1.8299**	**12.6188**	**13.8836**	**0.0799**	**4.6488**	**0.0416**	**4.6904**	**1.2840**	**0.0388**	**1.3228**		**8,340.5484**	**8,340.5484**	**0.3780**		**8,349.9994**

3.6 Phase 2 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.5112	3,608.5112	0.9412		3,632.0412
Total	**1.7971**	**15.0997**	**20.7931**	**0.0378**		**0.6381**	**0.6381**		**0.5979**	**0.5979**		**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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
Vendor	0.3137	11.6727	3.4182	0.0415	1.1170	0.0130	1.1300	0.3215	0.0125	0.3340		4,512.2947	4,512.2947	0.2908		4,519.5640
Worker	1.4376	0.7575	9.9048	0.0370	4.8303	0.0263	4.8565	1.2812	0.0242	1.3054		3,692.2073	3,692.2073	0.0802		3,694.2111
Total	**1.7513**	**12.4302**	**13.3230**	**0.0785**	**5.9473**	**0.0393**	**5.9865**	**1.6028**	**0.0366**	**1.6394**		**8,204.5019**	**8,204.5019**	**0.3709**		**8,213.7752**

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	lb/day										lb/day					
Off-Road	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.5112	3,608.5112	0.9412		3,632.0412

Total	**1.3650**	**11.3583**	**22.5948**	**0.0378**		**0.4746**	**0.4746**		**0.4495**	**0.4495**	**0.0000**	**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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
Vendor	0.3137	11.6727	3.4182	0.0415	0.9100	0.0130	0.9230	0.2707	0.0125	0.2832		4,512.2947	4,512.2947	0.2908		4,519.5640
Worker	1.4376	0.7575	9.9048	0.0370	3.7388	0.0263	3.7651	1.0133	0.0242	1.0375		3,692.2073	3,692.2073	0.0802		3,694.2111
Total	**1.7513**	**12.4302**	**13.3230**	**0.0785**	**4.6488**	**0.0393**	**4.6880**	**1.2840**	**0.0366**	**1.3206**		**8,204.5019**	**8,204.5019**	**0.3709**		**8,213.7752**

3.6 Phase 2 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.5112	3,608.5112	0.9412		3,632.0412
Total	**1.7971**	**15.0997**	**20.7931**	**0.0378**		**0.6381**	**0.6381**		**0.5979**	**0.5979**		**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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
Vendor	0.3083	11.5308	3.3948	0.0413	1.1170	0.0127	1.1297	0.3215	0.0122	0.3337		4,492.3400	4,492.3400	0.2892		4,499.5691
Worker	1.3588	0.7107	9.3924	0.0360	4.8303	0.0244	4.8547	1.2812	0.0224	1.3036		3,590.5705	3,590.5705	0.0757		3,592.4618
Total	**1.6671**	**12.2415**	**12.7872**	**0.0773**	**5.9473**	**0.0371**	**5.9843**	**1.6028**	**0.0346**	**1.6373**		**8,082.9105**	**8,082.9105**	**0.3648**		**8,092.0309**

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	lb/day										lb/day					
Off-Road	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.5112	3,608.5112	0.9412		3,632.0412
Total	**1.3650**	**11.3583**	**22.5948**	**0.0378**		**0.4746**	**0.4746**		**0.4495**	**0.4495**	**0.0000**	**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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

Vendor	0.3083	11.5308	3.3948	0.0413	0.9099	0.0127	0.9227	0.2707	0.0122	0.2829		4,492.3400	4,492.3400	0.2892		4,499.5691
Worker	1.3588	0.7107	9.3924	0.0360	3.7388	0.0244	3.7632	1.0133	0.0224	1.0357		3,590.5705	3,590.5705	0.0757		3,592.4618
Total	**1.6671**	**12.2415**	**12.7872**	**0.0773**	**4.6488**	**0.0371**	**4.6859**	**1.2840**	**0.0346**	**1.3186**		**8,082.9105**	**8,082.9105**	**0.3648**		**8,092.0309**

3.7 Phase 3 Utilities - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3225	9.1426	16.2821	0.0431		0.3699	0.3699		0.3403	0.3403		4,172.4670	4,172.4670	1.3495		4,206.2035
Total	**1.3225**	**9.1426**	**16.2821**	**0.0431**		**0.3699**	**0.3699**		**0.3403**	**0.3403**		**4,172.4670**	**4,172.4670**	**1.3495**		**4,206.2035**

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	lb/day										lb/day					
Hauling	1.5400e-003	0.0850	0.0176	1.9000e-004	20.6134	5.0000e-005	20.6135	2.0585	5.0000e-005	2.0585		20.6006	20.6006	2.1000e-003		20.6532
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
Worker	0.2774	0.1485	1.9184	7.0100e-003	0.8872	5.2100e-003	0.8924	0.2353	4.7900e-003	0.2401		699.4087	699.4087	0.0156		699.7991
Total	**0.2790**	**0.2334**	**1.9360**	**7.2000e-003**	**21.5006**	**5.2600e-003**	**21.5059**	**2.2938**	**4.8400e-003**	**2.2987**		**720.0094**	**720.0094**	**0.0177**		**720.4523**

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	lb/day										lb/day					
Off-Road	0.6124	3.0363	23.7824	0.0431		0.1111	0.1111		0.1074	0.1074	0.0000	4,172.4670	4,172.4670	1.3495		4,206.2035
Total	**0.6124**	**3.0363**	**23.7824**	**0.0431**		**0.1111**	**0.1111**		**0.1074**	**0.1074**	**0.0000**	**4,172.4670**	**4,172.4670**	**1.3495**		**4,206.2035**

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	lb/day										lb/day					
Hauling	1.5400e-003	0.0850	0.0176	1.9000e-004	4.4226	5.0000e-005	4.4226	0.4419	5.0000e-005	0.4419		20.6006	20.6006	2.1000e-003		20.6532
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
Worker	0.2774	0.1485	1.9184	7.0100e-003	0.6867	5.2100e-003	0.6919	0.1861	4.7900e-003	0.1909		699.4087	699.4087	0.0156		699.7991
Total	**0.2790**	**0.2334**	**1.9360**	**7.2000e-003**	**5.1093**	**5.2600e-003**	**5.1146**	**0.6280**	**4.8400e-003**	**0.6329**		**720.0094**	**720.0094**	**0.0177**		**720.4523**

3.7 Phase 3 Utilities - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3225	9.1426	16.2821	0.0431		0.3699	0.3699		0.3403	0.3403		4,172.4670	4,172.4670	1.3495		4,206.2035

Total	**1.3225**	**9.1426**	**16.2821**	**0.0431**		**0.3699**	**0.3699**		**0.3403**	**0.3403**		**4,172.4670**	**4,172.4670**	**1.3495**		**4,206.2035**

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	lb/day										lb/day					
Hauling	1.5200e-003	0.0840	0.0178	1.8000e-004	2.4841	5.0000e-005	2.4842	0.2482	5.0000e-005	0.2483		20.4581	20.4581	2.0700e-003		20.5097
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
Worker	0.2641	0.1391	1.8193	6.8000e-003	0.8872	4.8200e-003	0.8920	0.2353	4.4400e-003	0.2398		678.1605	678.1605	0.0147		678.5286
Total	**0.2656**	**0.2231**	**1.8370**	**6.9800e-003**	**3.3713**	**4.8700e-003**	**3.3762**	**0.4836**	**4.4900e-003**	**0.4880**		**698.6186**	**698.6186**	**0.0168**		**699.0383**

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	lb/day										lb/day					
Off-Road	0.6124	3.0363	23.7824	0.0431		0.1111	0.1111		0.1074	0.1074	0.0000	4,172.4670	4,172.4670	1.3495		4,206.2035
Total	**0.6124**	**3.0363**	**23.7824**	**0.0431**		**0.1111**	**0.1111**		**0.1074**	**0.1074**	**0.0000**	**4,172.4670**	**4,172.4670**	**1.3495**		**4,206.2035**

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	lb/day										lb/day					
Hauling	1.5200e-003	0.0840	0.0178	1.8000e-004	0.5334	5.0000e-005	0.5335	0.0535	5.0000e-005	0.0535		20.4581	20.4581	2.0700e-003		20.5097
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
Worker	0.2641	0.1391	1.8193	6.8000e-003	0.6867	4.8200e-003	0.6915	0.1861	4.4400e-003	0.1906		678.1605	678.1605	0.0147		678.5286
Total	**0.2656**	**0.2231**	**1.8370**	**6.9800e-003**	**1.2201**	**4.8700e-003**	**1.2250**	**0.2396**	**4.4900e-003**	**0.2441**		**698.6186**	**698.6186**	**0.0168**		**699.0383**

3.8 Phase 3 Surface Improvements - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.5923	1,470.5923	0.4756		1,482.4827
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6138**	**4.1849**	**5.3019**	**0.0152**		**0.1746**	**0.1746**		**0.1606**	**0.1606**		**1,470.5923**	**1,470.5923**	**0.4756**		**1,482.4827**

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	lb/day										lb/day					
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

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
Worker	0.3667	0.1932	2.5267	9.4400e-003	1.2322	6.7000e-003	1.2389	0.3268	6.1600e-003	0.3330		941.8896	941.8896	0.0205		942.4008
Total	**0.3667**	**0.1932**	**2.5267**	**9.4400e-003**	**1.2322**	**6.7000e-003**	**1.2389**	**0.3268**	**6.1600e-003**	**0.3330**		**941.8896**	**941.8896**	**0.0205**		**942.4008**

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	lb/day										lb/day					
Off-Road	0.1903	0.9261	7.9447	0.0152		0.0261	0.0261		0.0260	0.0260	0.0000	1,470.5922	1,470.5922	0.4756		1,482.4827
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1903**	**0.9261**	**7.9447**	**0.0152**		**0.0261**	**0.0261**		**0.0260**	**0.0260**	**0.0000**	**1,470.5922**	**1,470.5922**	**0.4756**		**1,482.4827**

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	lb/day										lb/day					
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
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
Worker	0.3667	0.1932	2.5267	9.4400e-003	0.9538	6.7000e-003	0.9605	0.2585	6.1600e-003	0.2647		941.8896	941.8896	0.0205		942.4008
Total	**0.3667**	**0.1932**	**2.5267**	**9.4400e-003**	**0.9538**	**6.7000e-003**	**0.9605**	**0.2585**	**6.1600e-003**	**0.2647**		**941.8896**	**941.8896**	**0.0205**		**942.4008**

3.8 Phase 3 Surface Improvements - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.5923	1,470.5923	0.4756		1,482.4827
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6138**	**4.1849**	**5.3019**	**0.0152**		**0.1746**	**0.1746**		**0.1606**	**0.1606**		**1,470.5923**	**1,470.5923**	**0.4756**		**1,482.4827**

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	lb/day										lb/day					
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
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
Worker	0.3466	0.1813	2.3960	9.1800e-003	1.2322	6.2200e-003	1.2384	0.3268	5.7200e-003	0.3326		915.9619	915.9619	0.0193		916.4443
Total	**0.3466**	**0.1813**	**2.3960**	**9.1800e-003**	**1.2322**	**6.2200e-003**	**1.2384**	**0.3268**	**5.7200e-003**	**0.3326**		**915.9619**	**915.9619**	**0.0193**		**916.4443**

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	lb/day										lb/day					
Off-Road	0.1903	0.9261	7.9447	0.0152		0.0261	0.0261		0.0260	0.0260	0.0000	1,470.5922	1,470.5922	0.4756		1,482.4827

Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1903**	**0.9261**	**7.9447**	**0.0152**		**0.0261**	**0.0261**		**0.0260**	**0.0260**	**0.0000**	**1,470.5922**	**1,470.5922**	**0.4756**		**1,482.4827**

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	lb/day										lb/day					
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
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
Worker	0.3466	0.1813	2.3960	9.1800e-003	0.9538	6.2200e-003	0.9600	0.2585	5.7200e-003	0.2642		915.9619	915.9619	0.0193		916.4443
Total	**0.3466**	**0.1813**	**2.3960**	**9.1800e-003**	**0.9538**	**6.2200e-003**	**0.9600**	**0.2585**	**5.7200e-003**	**0.2642**		**915.9619**	**915.9619**	**0.0193**		**916.4443**

3.9 Phase 4 Site Preparation - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6895	0.0000	8.6895	2.3348	0.0000	2.3348			0.0000			0.0000
Off-Road	1.2681	11.9786	14.6445	0.0245		0.4998	0.4998		0.4598	0.4598		2,371.8801	2,371.8801	0.7671		2,391.0580
Total	**1.2681**	**11.9786**	**14.6445**	**0.0245**	**8.6895**	**0.4998**	**9.1893**	**2.3348**	**0.4598**	**2.7946**		**2,371.8801**	**2,371.8801**	**0.7671**		**2,391.0580**

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	lb/day										lb/day					
Hauling	1.5200e-003	0.0840	0.0178	1.8000e-004	2.2658	5.0000e-005	2.2658	0.2264	5.0000e-005	0.2265		20.4581	20.4581	2.0700e-003		20.5097
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
Worker	0.0122	6.4400e-003	0.0842	3.1000e-004	0.0411	2.2000e-004	0.0413	0.0109	2.1000e-004	0.0111		31.3963	31.3963	6.8000e-004		31.4134
Total	**0.0137**	**0.0904**	**0.1020**	**4.9000e-004**	**2.3069**	**2.7000e-004**	**2.3071**	**0.2373**	**2.6000e-004**	**0.2376**		**51.8544**	**51.8544**	**2.7500e-003**		**51.9231**

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	lb/day										lb/day					
Fugitive Dust					2.1350	0.0000	2.1350	0.5737	0.0000	0.5737			0.0000			0.0000
Off-Road	0.4681	3.4009	14.5446	0.0245		0.1281	0.1281		0.1203	0.1203	0.0000	2,371.8801	2,371.8801	0.7671		2,391.0580
Total	**0.4681**	**3.4009**	**14.5446**	**0.0245**	**2.1350**	**0.1281**	**2.2631**	**0.5737**	**0.1203**	**0.6939**	**0.0000**	**2,371.8801**	**2,371.8801**	**0.7671**		**2,391.0580**

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	lb/day										lb/day					
Hauling	1.5200e-003	0.0840	0.0178	1.8000e-004	0.4866	5.0000e-005	0.4866	0.0488	5.0000e-005	0.0488		20.4581	20.4581	2.0700e-003		20.5097

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
Worker	0.0122	6.4400e-003	0.0842	3.1000e-004	0.0318	2.2000e-004	0.0320	8.6200e-003	2.1000e-004	8.8200e-003		31.3963	31.3963	6.8000e-004		31.4134
Total	**0.0137**	**0.0904**	**0.1020**	**4.9000e-004**	**0.5184**	**2.7000e-004**	**0.5187**	**0.0574**	**2.6000e-004**	**0.0576**		**51.8544**	**51.8544**	**2.7500e-003**		**51.9231**

3.10 Phase 4 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000
Off-Road	5.5684	52.6035	39.3894	0.1207		2.0263	2.0263		1.8642	1.8642		11,686.3962	11,686.3962	3.7796		11,780.8866
Total	**5.5684**	**52.6035**	**39.3894**	**0.1207**	**4.9019**	**2.0263**	**6.9282**	**2.4910**	**1.8642**	**4.3552**		**11,686.3962**	**11,686.3962**	**3.7796**		**11,780.8866**

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	lb/day										lb/day					
Hauling	0.0249	1.3740	0.2911	3.0100e-003	173.5112	8.4000e-004	173.5121	17.3284	8.0000e-004	17.3292		334.8304	334.8304	0.0338		335.6761
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
Worker	0.1785	0.0940	1.2297	4.5900e-003	0.5997	3.2600e-003	0.6029	0.1591	3.0000e-003	0.1621		458.3863	458.3863	9.9500e-003		458.6351
Total	**0.2033**	**1.4681**	**1.5208**	**7.6000e-003**	**174.1109**	**4.1000e-003**	**174.1150**	**17.4875**	**3.8000e-003**	**17.4913**		**793.2167**	**793.2167**	**0.0438**		**794.3111**

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	lb/day										lb/day					
Fugitive Dust					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000			0.0000
Off-Road	1.4879	6.4839	54.2687	0.1207		0.2001	0.2001		0.1999	0.1999	0.0000	11,686.3962	11,686.3962	3.7796		11,780.8866
Total	**1.4879**	**6.4839**	**54.2687**	**0.1207**	**1.2044**	**0.2001**	**1.4045**	**0.6121**	**0.1999**	**0.8119**	**0.0000**	**11,686.3962**	**11,686.3962**	**3.7796**		**11,780.8866**

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	lb/day										lb/day					
Hauling	0.0249	1.3740	0.2911	3.0100e-003	37.2306	8.4000e-004	37.2314	3.7214	8.0000e-004	3.7222		334.8304	334.8304	0.0338		335.6761
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
Worker	0.1785	0.0940	1.2297	4.5900e-003	0.4642	3.2600e-003	0.4674	0.1258	3.0000e-003	0.1288		458.3863	458.3863	9.9500e-003		458.6351
Total	**0.2033**	**1.4681**	**1.5208**	**7.6000e-003**	**37.6948**	**4.1000e-003**	**37.6989**	**3.8472**	**3.8000e-003**	**3.8510**		**793.2167**	**793.2167**	**0.0438**		**794.3111**

3.10 Phase 4 Grading - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000

Off-Road	5.5684	52.6035	39.3894	0.1207		2.0263	2.0263		1.8642	1.8642		11,686.3962	11,686.3962	3.7796		11,780.8866
Total	**5.5684**	**52.6035**	**39.3894**	**0.1207**	**4.9019**	**2.0263**	**6.9282**	**2.4910**	**1.8642**	**4.3552**		**11,686.3962**	**11,686.3962**	**3.7796**		**11,780.8866**

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	lb/day										lb/day					
Hauling	0.0245	1.3573	0.2936	2.9800e-003	66.4860	8.0000e-004	66.4868	6.6416	7.7000e-004	6.6424		332.4928	332.4928	0.0334		333.3271
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
Worker	0.1687	0.0882	1.1661	4.4700e-003	0.5997	3.0300e-003	0.6027	0.1591	2.7800e-003	0.1619		445.7681	445.7681	9.3900e-003		446.0029
Total	**0.1932**	**1.4455**	**1.4597**	**7.4500e-003**	**67.0857**	**3.8300e-003**	**67.0895**	**6.8007**	**3.5500e-003**	**6.8043**		**778.2609**	**778.2609**	**0.0428**		**779.3300**

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	lb/day										lb/day					
Fugitive Dust					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000			0.0000
Off-Road	1.4879	6.4839	54.2687	0.1207		0.2001	0.2001		0.1999	0.1999	0.0000	11,686.3962	11,686.3962	3.7796		11,780.8866
Total	**1.4879**	**6.4839**	**54.2687**	**0.1207**	**1.2044**	**0.2001**	**1.4045**	**0.6121**	**0.1999**	**0.8119**	**0.0000**	**11,686.3962**	**11,686.3962**	**3.7796**		**11,780.8866**

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	lb/day										lb/day					
Hauling	0.0245	1.3573	0.2936	2.9800e-003	14.2712	8.0000e-004	14.2720	1.4282	7.7000e-004	1.4290		332.4928	332.4928	0.0334		333.3271
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
Worker	0.1687	0.0882	1.1661	4.4700e-003	0.4642	3.0300e-003	0.4672	0.1258	2.7800e-003	0.1286		445.7681	445.7681	9.3900e-003		446.0029
Total	**0.1932**	**1.4455**	**1.4597**	**7.4500e-003**	**14.7354**	**3.8300e-003**	**14.7392**	**1.5540**	**3.5500e-003**	**1.5576**		**778.2609**	**778.2609**	**0.0428**		**779.3300**

3.10 Phase 4 Grading - 2030

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	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000
Off-Road	6.5293	27.2739	29.9533	0.1236		1.0216	1.0216		1.0216	1.0216		14,036.0011	14,036.0011	0.5810		14,050.5267
Total	**6.5293**	**27.2739**	**29.9533**	**0.1236**	**4.9019**	**1.0216**	**5.9235**	**2.4910**	**1.0216**	**3.5126**		**14,036.0011**	**14,036.0011**	**0.5810**		**14,050.5267**

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	lb/day										lb/day					
Hauling	0.0243	1.3435	0.2966	2.9600e-003	145.8095	7.7000e-004	145.8102	14.5623	7.4000e-004	14.5630		330.7062	330.7062	0.0330		331.5305

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
Worker	0.1580	0.0826	1.1057	4.3600e-003	0.5997	2.8100e-003	0.6025	0.1591	2.5900e-003	0.1617		434.6808	434.6808	8.8700e-003		434.9024
Total	**0.1823**	**1.4261**	**1.4023**	**7.3200e-003**	**146.4091**	**3.5800e-003**	**146.4127**	**14.7214**	**3.3300e-003**	**14.7247**		**765.3870**	**765.3870**	**0.0418**		**766.4329**

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	lb/day										lb/day					
Fugitive Dust					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000			0.0000
Off-Road	1.4898	6.4317	54.2668	0.1236		0.1980	0.1980		0.1980	0.1980	0.0000	14,036.0011	14,036.0011	0.5810		14,050.5267
Total	**1.4898**	**6.4317**	**54.2668**	**0.1236**	**1.2044**	**0.1980**	**1.4024**	**0.6121**	**0.1980**	**0.8100**	**0.0000**	**14,036.0011**	**14,036.0011**	**0.5810**		**14,050.5267**

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	lb/day										lb/day					
Hauling	0.0243	1.3435	0.2966	2.9600e-003	31.2879	7.7000e-004	31.2887	3.1278	7.4000e-004	3.1286		330.7062	330.7062	0.0330		331.5305
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
Worker	0.1580	0.0826	1.1057	4.3600e-003	0.4642	2.8100e-003	0.4670	0.1258	2.5900e-003	0.1284		434.6808	434.6808	8.8700e-003		434.9024
Total	**0.1823**	**1.4261**	**1.4023**	**7.3200e-003**	**31.7521**	**3.5800e-003**	**31.7557**	**3.2536**	**3.3300e-003**	**3.2569**		**765.3870**	**765.3870**	**0.0418**		**766.4329**

3.11 Phase 3 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.5112	3,608.5112	0.9412		3,632.0412
Total	**1.7971**	**15.0997**	**20.7931**	**0.0378**		**0.6381**	**0.6381**		**0.5979**	**0.5979**		**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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
Vendor	0.2795	10.3993	3.0453	0.0370	0.9951	0.0116	1.0067	0.2865	0.0111	0.2976		4,020.0444	4,020.0444	0.2591		4,026.5207
Worker	1.2836	0.6763	8.8436	0.0331	4.3128	0.0234	4.3362	1.1439	0.0216	1.1655		3,296.6136	3,296.6136	0.0716		3,298.4028
Total	**1.5630**	**11.0756**	**11.8889**	**0.0700**	**5.3079**	**0.0350**	**5.3429**	**1.4304**	**0.0327**	**1.4631**		**7,316.6580**	**7,316.6580**	**0.3306**		**7,324.9235**

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	lb/day										lb/day					
Off-Road	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.5112	3,608.5112	0.9412		3,632.0412

Total	**1.3650**	**11.3583**	**22.5948**	**0.0378**		**0.4746**	**0.4746**		**0.4495**	**0.4495**	**0.0000**	**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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
Vendor	0.2795	10.3993	3.0453	0.0370	0.8107	0.0116	0.8223	0.2412	0.0111	0.2523		4,020.0444	4,020.0444	0.2591		4,026.5207
Worker	1.2836	0.6763	8.8436	0.0331	3.3382	0.0234	3.3617	0.9047	0.0216	0.9263		3,296.6136	3,296.6136	0.0716		3,298.4028
Total	**1.5630**	**11.0756**	**11.8889**	**0.0700**	**4.1489**	**0.0350**	**4.1839**	**1.1459**	**0.0327**	**1.1786**		**7,316.6580**	**7,316.6580**	**0.3306**		**7,324.9235**

3.11 Phase 3 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.5112	3,608.5112	0.9412		3,632.0412
Total	**1.7971**	**15.0997**	**20.7931**	**0.0378**		**0.6381**	**0.6381**		**0.5979**	**0.5979**		**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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
Vendor	0.2747	10.2729	3.0245	0.0368	0.9951	0.0113	1.0065	0.2865	0.0108	0.2973		4,002.2665	4,002.2665	0.2576		4,008.7070
Worker	1.2132	0.6345	8.3860	0.0321	4.3128	0.0218	4.3345	1.1439	0.0200	1.1640		3,205.8665	3,205.8665	0.0676		3,207.5552
Total	**1.4879**	**10.9074**	**11.4105**	**0.0689**	**5.3079**	**0.0331**	**5.3410**	**1.4304**	**0.0309**	**1.4613**		**7,208.1331**	**7,208.1331**	**0.3252**		**7,216.2622**

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	lb/day										lb/day					
Off-Road	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.5112	3,608.5112	0.9412		3,632.0412
Total	**1.3650**	**11.3583**	**22.5948**	**0.0378**		**0.4746**	**0.4746**		**0.4495**	**0.4495**	**0.0000**	**3,608.5112**	**3,608.5112**	**0.9412**		**3,632.0412**

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	lb/day										lb/day					
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

Vendor	0.2747	10.2729	3.0245	0.0368	0.8107	0.0113	0.8220	0.2412	0.0108	0.2520		4,002.2665	4,002.2665	0.2576		4,008.7070
Worker	1.2132	0.6345	8.3860	0.0321	3.3382	0.0218	3.3600	0.9047	0.0200	0.9248		3,205.8665	3,205.8665	0.0676		3,207.5552
Total	**1.4879**	**10.9074**	**11.4105**	**0.0689**	**4.1489**	**0.0331**	**4.1820**	**1.1459**	**0.0309**	**1.1768**		**7,208.1331**	**7,208.1331**	**0.3252**		**7,216.2622**

3.11 Phase 3 Building Construction - 2030

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	lb/day										lb/day					
Off-Road	1.8023	9.0554	20.8612	0.0431		0.1937	0.1937		0.1937	0.1937		4,162.0584	4,162.0584	0.1595		4,166.0456
Total	**1.8023**	**9.0554**	**20.8612**	**0.0431**		**0.1937**	**0.1937**		**0.1937**	**0.1937**		**4,162.0584**	**4,162.0584**	**0.1595**		**4,166.0456**

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	lb/day										lb/day					
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
Vendor	0.2710	10.1660	3.0138	0.0366	0.9951	0.0111	1.0062	0.2865	0.0106	0.2971		3,987.8285	3,987.8285	0.2564		3,994.2380
Worker	1.1366	0.5943	7.9520	0.0313	4.3128	0.0202	4.3330	1.1439	0.0186	1.1625		3,126.1287	3,126.1287	0.0638		3,127.7226
Total	**1.4076**	**10.7602**	**10.9658**	**0.0680**	**5.3079**	**0.0313**	**5.3392**	**1.4304**	**0.0292**	**1.4596**		**7,113.9572**	**7,113.9572**	**0.3201**		**7,121.9606**

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	lb/day										lb/day					
Off-Road	1.2489	7.2666	22.5003	0.0431		0.1458	0.1458		0.1458	0.1458	0.0000	4,162.0584	4,162.0584	0.1595		4,166.0456
Total	**1.2489**	**7.2666**	**22.5003**	**0.0431**		**0.1458**	**0.1458**		**0.1458**	**0.1458**	**0.0000**	**4,162.0584**	**4,162.0584**	**0.1595**		**4,166.0456**

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	lb/day										lb/day					
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
Vendor	0.2710	10.1660	3.0138	0.0366	0.8107	0.0111	0.8218	0.2412	0.0106	0.2518		3,987.8285	3,987.8285	0.2564		3,994.2380
Worker	1.1366	0.5943	7.9520	0.0313	3.3382	0.0202	3.3584	0.9047	0.0186	0.9233		3,126.1287	3,126.1287	0.0638		3,127.7226
Total	**1.4076**	**10.7602**	**10.9658**	**0.0680**	**4.1489**	**0.0313**	**4.1802**	**1.1459**	**0.0292**	**1.1752**		**7,113.9572**	**7,113.9572**	**0.3201**		**7,121.9606**

3.11 Phase 3 Building Construction - 2031

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	lb/day										lb/day					
Off-Road	1.8023	9.0554	20.8612	0.0431		0.1937	0.1937		0.1937	0.1937		4,162.0584	4,162.0584	0.1595		4,166.0456

Total	**1.8023**	**9.0554**	**20.8612**	**0.0431**		**0.1937**	**0.1937**		**0.1937**	**0.1937**		**4,162.0584**	**4,162.0584**	**0.1595**		**4,166.0456**

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	lb/day										lb/day					
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
Vendor	0.2680	10.0737	3.0047	0.0365	0.9951	0.0109	1.0061	0.2865	0.0105	0.2969		3,975.7002	3,975.7002	0.2552		3,982.0802
Worker	1.0557	0.5567	7.5406	0.0306	4.3128	0.0188	4.3316	1.1439	0.0173	1.1613		3,056.3919	3,056.3919	0.0603		3,057.9004
Total	**1.3237**	**10.6304**	**10.5453**	**0.0671**	**5.3079**	**0.0298**	**5.3376**	**1.4304**	**0.0278**	**1.4582**		**7,032.0921**	**7,032.0921**	**0.3155**		**7,039.9806**

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	lb/day										lb/day					
Off-Road	1.2489	7.2666	22.5003	0.0431		0.1458	0.1458		0.1458	0.1458	0.0000	4,162.0584	4,162.0584	0.1595		4,166.0456
Total	**1.2489**	**7.2666**	**22.5003**	**0.0431**		**0.1458**	**0.1458**		**0.1458**	**0.1458**	**0.0000**	**4,162.0584**	**4,162.0584**	**0.1595**		**4,166.0456**

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	lb/day										lb/day					
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
Vendor	0.2680	10.0737	3.0047	0.0365	0.8107	0.0109	0.8216	0.2412	0.0105	0.2516		3,975.7002	3,975.7002	0.2552		3,982.0802
Worker	1.0557	0.5567	7.5406	0.0306	3.3382	0.0188	3.3570	0.9047	0.0173	0.9220		3,056.3919	3,056.3919	0.0603		3,057.9004
Total	**1.3237**	**10.6304**	**10.5453**	**0.0671**	**4.1489**	**0.0298**	**4.1786**	**1.1459**	**0.0278**	**1.1737**		**7,032.0921**	**7,032.0921**	**0.3155**		**7,039.9806**

3.12 Phase 4 Utilities - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1562	7.9984	14.2596	0.0377		0.3237	0.3237		0.2978	0.2978		3,650.1513	3,650.1513	1.1805		3,679.6646
Total	**1.1562**	**7.9984**	**14.2596**	**0.0377**		**0.3237**	**0.3237**		**0.2978**	**0.2978**		**3,650.1513**	**3,650.1513**	**1.1805**		**3,679.6646**

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	lb/day										lb/day					
Hauling	1.5000e-003	0.0829	0.0179	1.8000e-004	7.3624	5.0000e-005	7.3624	0.7353	5.0000e-005	0.7354		20.3152	20.3152	2.0400e-003		20.3662

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
Worker	0.2496	0.1305	1.7251	6.6100e-003	0.8872	4.4800e-003	0.8917	0.2353	4.1200e-003	0.2394		659.4925	659.4925	0.0139		659.8399
Total	**0.2511**	**0.2135**	**1.7431**	**6.7900e-003**	**8.2495**	**4.5300e-003**	**8.2541**	**0.9707**	**4.1700e-003**	**0.9748**		**679.8078**	**679.8078**	**0.0159**		**680.2062**

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	lb/day										lb/day					
Off-Road	0.5359	2.6570	20.8170	0.0377		0.0972	0.0972		0.0940	0.0940	0.0000	3,650.1513	3,650.1513	1.1805		3,679.6646
Total	**0.5359**	**2.6570**	**20.8170**	**0.0377**		**0.0972**	**0.0972**		**0.0940**	**0.0940**	**0.0000**	**3,650.1513**	**3,650.1513**	**1.1805**		**3,679.6646**

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	lb/day										lb/day					
Hauling	1.5000e-003	0.0829	0.0179	1.8000e-004	1.5799	5.0000e-005	1.5800	0.1580	5.0000e-005	0.1580		20.3152	20.3152	2.0400e-003		20.3662
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
Worker	0.2496	0.1305	1.7251	6.6100e-003	0.6867	4.4800e-003	0.6912	0.1861	4.1200e-003	0.1902		659.4925	659.4925	0.0139		659.8399
Total	**0.2511**	**0.2135**	**1.7431**	**6.7900e-003**	**2.2666**	**4.5300e-003**	**2.2712**	**0.3441**	**4.1700e-003**	**0.3483**		**679.8078**	**679.8078**	**0.0159**		**680.2062**

3.12 Phase 4 Utilities - 2030

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	lb/day										lb/day					
Off-Road	1.6022	3.8020	14.9349	0.0440		0.1427	0.1427		0.1427	0.1427		4,400.9735	4,400.9735	0.1418		4,404.5175
Total	**1.6022**	**3.8020**	**14.9349**	**0.0440**		**0.1427**	**0.1427**		**0.1427**	**0.1427**		**4,400.9735**	**4,400.9735**	**0.1418**		**4,404.5175**

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	lb/day										lb/day					
Hauling	1.4800e-003	0.0821	0.0181	1.8000e-004	3.1557	5.0000e-005	3.1557	0.3153	5.0000e-005	0.3153		20.2061	20.2061	2.0100e-003		20.2565
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
Worker	0.2338	0.1223	1.6358	6.4400e-003	0.8872	4.1600e-003	0.8914	0.2353	3.8300e-003	0.2392		643.0893	643.0893	0.0131		643.4172
Total	**0.2353**	**0.2043**	**1.6540**	**6.6200e-003**	**4.0429**	**4.2100e-003**	**4.0471**	**0.5506**	**3.8800e-003**	**0.5545**		**663.2954**	**663.2954**	**0.0151**		**663.6737**

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	lb/day										lb/day					
Off-Road	0.5576	2.1708	20.9497	0.0440		0.0703	0.0703		0.0703	0.0703	0.0000	4,400.9735	4,400.9735	0.1418		4,404.5175

Total	**0.5576**	**2.1708**	**20.9497**	**0.0440**		**0.0703**	**0.0703**		**0.0703**	**0.0703**	**0.0000**	**4,400.9735**	**4,400.9735**	**0.1418**		**4,404.5175**

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	lb/day										lb/day					
Hauling	1.4800e-003	0.0821	0.0181	1.8000e-004	0.6775	5.0000e-005	0.6775	0.0678	5.0000e-005	0.0679		20.2061	20.2061	2.0100e-003		20.2565
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
Worker	0.2338	0.1223	1.6358	6.4400e-003	0.6867	4.1600e-003	0.6909	0.1861	3.8300e-003	0.1899		643.0893	643.0893	0.0131		643.4172
Total	**0.2353**	**0.2043**	**1.6540**	**6.6200e-003**	**1.3642**	**4.2100e-003**	**1.3684**	**0.2540**	**3.8800e-003**	**0.2578**		**663.2954**	**663.2954**	**0.0151**		**663.6737**

3.13 Phase 4 Surface Improvements - 2030

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	lb/day										lb/day					
Off-Road	0.7190	2.0741	5.2243	0.0163		0.0785	0.0785		0.0785	0.0785		1,757.9229	1,757.9229	0.0635		1,759.5106
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7190**	**2.0741**	**5.2243**	**0.0163**		**0.0785**	**0.0785**		**0.0785**	**0.0785**		**1,757.9229**	**1,757.9229**	**0.0635**		**1,759.5106**

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	lb/day										lb/day					
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
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
Worker	0.3247	0.1698	2.2720	8.9500e-003	1.2322	5.7800e-003	1.2380	0.3268	5.3100e-003	0.3322		893.1796	893.1796	0.0182		893.6350
Total	**0.3247**	**0.1698**	**2.2720**	**8.9500e-003**	**1.2322**	**5.7800e-003**	**1.2380**	**0.3268**	**5.3100e-003**	**0.3322**		**893.1796**	**893.1796**	**0.0182**		**893.6350**

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	lb/day										lb/day					
Off-Road	0.1914	0.9178	7.9478	0.0163		0.0251	0.0251		0.0251	0.0251	0.0000	1,757.9229	1,757.9229	0.0635		1,759.5106
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1914**	**0.9178**	**7.9478**	**0.0163**		**0.0251**	**0.0251**		**0.0251**	**0.0251**	**0.0000**	**1,757.9229**	**1,757.9229**	**0.0635**		**1,759.5106**

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	lb/day										lb/day					
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

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
Worker	0.3247	0.1698	2.2720	8.9500e-003	0.9538	5.7800e-003	0.9596	0.2585	5.3100e-003	0.2638		893.1796	893.1796	0.0182		893.6350
Total	**0.3247**	**0.1698**	**2.2720**	**8.9500e-003**	**0.9538**	**5.7800e-003**	**0.9596**	**0.2585**	**5.3100e-003**	**0.2638**		**893.1796**	**893.1796**	**0.0182**		**893.6350**

3.13 Phase 4 Surface Improvements - 2031

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	lb/day										lb/day					
Off-Road	0.7190	2.0741	5.2243	0.0163		0.0785	0.0785		0.0785	0.0785		1,757.9229	1,757.9229	0.0635		1,759.5106
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7190**	**2.0741**	**5.2243**	**0.0163**		**0.0785**	**0.0785**		**0.0785**	**0.0785**		**1,757.9229**	**1,757.9229**	**0.0635**		**1,759.5106**

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	lb/day										lb/day					
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
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
Worker	0.3016	0.1591	2.1545	8.7500e-003	1.2322	5.3700e-003	1.2376	0.3268	4.9400e-003	0.3318		873.2548	873.2548	0.0172		873.6858
Total	**0.3016**	**0.1591**	**2.1545**	**8.7500e-003**	**1.2322**	**5.3700e-003**	**1.2376**	**0.3268**	**4.9400e-003**	**0.3318**		**873.2548**	**873.2548**	**0.0172**		**873.6858**

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	lb/day										lb/day					
Off-Road	0.1914	0.9178	7.9478	0.0163		0.0251	0.0251		0.0251	0.0251	0.0000	1,757.9229	1,757.9229	0.0635		1,759.5106
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1914**	**0.9178**	**7.9478**	**0.0163**		**0.0251**	**0.0251**		**0.0251**	**0.0251**	**0.0000**	**1,757.9229**	**1,757.9229**	**0.0635**		**1,759.5106**

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	lb/day										lb/day					
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
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
Worker	0.3016	0.1591	2.1545	8.7500e-003	0.9538	5.3700e-003	0.9592	0.2585	4.9400e-003	0.2634		873.2548	873.2548	0.0172		873.6858
Total	**0.3016**	**0.1591**	**2.1545**	**8.7500e-003**	**0.9538**	**5.3700e-003**	**0.9592**	**0.2585**	**4.9400e-003**	**0.2634**		**873.2548**	**873.2548**	**0.0172**		**873.6858**

3.14 Phase 4 Building Construction - 2030

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	lb/day										lb/day					
Off-Road	1.9491	9.4162	23.0563	0.0469		0.2097	0.2097		0.2097	0.2097		4,526.2720	4,526.2720	0.1723		4,530.5797

Total	**1.9491**	**9.4162**	**23.0563**	**0.0469**		**0.2097**	**0.2097**		**0.2097**	**0.2097**		**4,526.2720**	**4,526.2720**	**0.1723**		**4,530.5797**

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	lb/day										lb/day					
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
Vendor	0.4332	16.2518	4.8180	0.0586	1.5908	0.0178	1.6086	0.4580	0.0170	0.4749		6,375.1000	6,375.1000	0.4099		6,385.3465
Worker	1.8142	0.9485	12.6929	0.0500	6.8840	0.0323	6.9163	1.8260	0.0297	1.8556		4,989.8968	4,989.8968	0.1018		4,992.4411
Total	**2.2474**	**17.2003**	**17.5109**	**0.1086**	**8.4748**	**0.0501**	**8.5249**	**2.2839**	**0.0467**	**2.3306**		**11,364.9968**	**11,364.9968**	**0.5116**		**11,377.7876**

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	lb/day										lb/day					
Off-Road	1.2874	7.4332	24.8715	0.0469		0.1510	0.1510		0.1510	0.1510	0.0000	4,526.2720	4,526.2720	0.1723		4,530.5797
Total	**1.2874**	**7.4332**	**24.8715**	**0.0469**		**0.1510**	**0.1510**		**0.1510**	**0.1510**	**0.0000**	**4,526.2720**	**4,526.2720**	**0.1723**		**4,530.5797**

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	lb/day										lb/day					
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
Vendor	0.4332	16.2518	4.8180	0.0586	1.2960	0.0178	1.3138	0.3856	0.0170	0.4026		6,375.1000	6,375.1000	0.4099		6,385.3465
Worker	1.8142	0.9485	12.6929	0.0500	5.3284	0.0323	5.3607	1.4441	0.0297	1.4738		4,989.8968	4,989.8968	0.1018		4,992.4411
Total	**2.2474**	**17.2003**	**17.5109**	**0.1086**	**6.6244**	**0.0501**	**6.6745**	**1.8297**	**0.0467**	**1.8764**		**11,364.9968**	**11,364.9968**	**0.5116**		**11,377.7876**

3.14 Phase 4 Building Construction - 2031

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	lb/day										lb/day					
Off-Road	1.9491	9.4162	23.0563	0.0469		0.2097	0.2097		0.2097	0.2097		4,526.2720	4,526.2720	0.1723		4,530.5797
Total	**1.9491**	**9.4162**	**23.0563**	**0.0469**		**0.2097**	**0.2097**		**0.2097**	**0.2097**		**4,526.2720**	**4,526.2720**	**0.1723**		**4,530.5797**

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	lb/day										lb/day					
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

Vendor	0.4285	16.1042	4.8034	0.0583	1.5908	0.0175	1.6083	0.4580	0.0167	0.4747		6,355.7111	6,355.7111	0.4080		6,365.9105
Worker	1.6850	0.8886	12.0363	0.0489	6.8840	0.0300	6.9140	1.8260	0.0276	1.8536		4,878.5837	4,878.5837	0.0963		4,880.9915
Total	**2.1135**	**16.9928**	**16.8397**	**0.1072**	**8.4748**	**0.0475**	**8.5223**	**2.2839**	**0.0443**	**2.3282**		**11,234.2948**	**11,234.2948**	**0.5043**		**11,246.9020**

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	lb/day										lb/day					
Off-Road	1.2874	7.4332	24.8715	0.0469		0.1510	0.1510		0.1510	0.1510	0.0000	4,526.2720	4,526.2720	0.1723		4,530.5797
Total	**1.2874**	**7.4332**	**24.8715**	**0.0469**		**0.1510**	**0.1510**		**0.1510**	**0.1510**	**0.0000**	**4,526.2720**	**4,526.2720**	**0.1723**		**4,530.5797**

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	lb/day										lb/day					
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
Vendor	0.4285	16.1042	4.8034	0.0583	1.2960	0.0175	1.3135	0.3856	0.0167	0.4023		6,355.7111	6,355.7111	0.4080		6,365.9105
Worker	1.6850	0.8886	12.0363	0.0489	5.3284	0.0300	5.3585	1.4441	0.0276	1.4718		4,878.5837	4,878.5837	0.0963		4,880.9915
Total	**2.1135**	**16.9928**	**16.8397**	**0.1072**	**6.6244**	**0.0475**	**6.6719**	**1.8297**	**0.0443**	**1.8741**		**11,234.2948**	**11,234.2948**	**0.5043**		**11,246.9020**

3.14 Phase 4 Building Construction - 2032

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	lb/day										lb/day					
Off-Road	1.9491	9.4162	23.0563	0.0469		0.2097	0.2097		0.2097	0.2097		4,526.2720	4,526.2720	0.1723		4,530.5797
Total	**1.9491**	**9.4162**	**23.0563**	**0.0469**		**0.2097**	**0.2097**		**0.2097**	**0.2097**		**4,526.2720**	**4,526.2720**	**0.1723**		**4,530.5797**

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	lb/day										lb/day					
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
Vendor	0.4247	15.9727	4.7971	0.0582	1.5908	0.0172	1.6081	0.4580	0.0165	0.4744		6,341.3486	6,341.3486	0.4064		6,351.5090
Worker	1.5707	0.8387	11.4708	0.0479	6.8840	0.0280	6.9119	1.8260	0.0257	1.8517		4,781.9955	4,781.9955	0.0918		4,784.2913
Total	**1.9954**	**16.8114**	**16.2679**	**0.1061**	**8.4748**	**0.0452**	**8.5200**	**2.2839**	**0.0422**	**2.3261**		**11,123.3441**	**11,123.3441**	**0.4983**		**11,135.8002**

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	lb/day										lb/day					
Off-Road	1.2874	7.4332	24.8715	0.0469		0.1510	0.1510		0.1510	0.1510	0.0000	4,526.2720	4,526.2720	0.1723		4,530.5797

Total	**1.2874**	**7.4332**	**24.8715**	**0.0469**		**0.1510**	**0.1510**		**0.1510**	**0.1510**	**0.0000**	**4,526.2720**	**4,526.2720**	**0.1723**		**4,530.5797**

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	lb/day										lb/day					
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
Vendor	0.4247	15.9727	4.7971	0.0582	1.2960	0.0172	1.3132	0.3856	0.0165	0.4021		6,341.3486	6,341.3486	0.4064		6,351.5090
Worker	1.5707	0.8387	11.4708	0.0479	5.3284	0.0280	5.3564	1.4441	0.0257	1.4699		4,781.9955	4,781.9955	0.0918		4,784.2913
Total	**1.9954**	**16.8114**	**16.2679**	**0.1061**	**6.6244**	**0.0452**	**6.6696**	**1.8297**	**0.0422**	**1.8719**		**11,123.3441**	**11,123.3441**	**0.4983**		**11,135.8002**

3.14 Phase 4 Building Construction - 2033

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	lb/day										lb/day					
Off-Road	1.9491	9.4162	23.0563	0.0469		0.2097	0.2097		0.2097	0.2097		4,526.2720	4,526.2720	0.1723		4,530.5797
Total	**1.9491**	**9.4162**	**23.0563**	**0.0469**		**0.2097**	**0.2097**		**0.2097**	**0.2097**		**4,526.2720**	**4,526.2720**	**0.1723**		**4,530.5797**

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	lb/day										lb/day					
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
Vendor	0.4219	15.8545	4.7944	0.0580	1.5908	0.0170	1.6079	0.4580	0.0163	0.4742		6,329.8024	6,329.8024	0.4051		6,339.9303
Worker	1.4708	0.7964	10.9824	0.0471	6.8840	0.0261	6.9101	1.8260	0.0240	1.8500		4,698.8232	4,698.8232	0.0880		4,701.0227
Total	**1.8927**	**16.6509**	**15.7767**	**0.1051**	**8.4748**	**0.0431**	**8.5179**	**2.2839**	**0.0403**	**2.3242**		**11,028.6256**	**11,028.6256**	**0.4931**		**11,040.9531**

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	lb/day										lb/day					
Off-Road	1.2874	7.4332	24.8715	0.0469		0.1510	0.1510		0.1510	0.1510	0.0000	4,526.2720	4,526.2720	0.1723		4,530.5797
Total	**1.2874**	**7.4332**	**24.8715**	**0.0469**		**0.1510**	**0.1510**		**0.1510**	**0.1510**	**0.0000**	**4,526.2720**	**4,526.2720**	**0.1723**		**4,530.5797**

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	lb/day										lb/day					
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

Vendor	0.4219	15.8545	4.7944	0.0580	1.2960	0.0170	1.3130	0.3856	0.0163	0.4018		6,329.8024	6,329.8024	0.4051		6,339.9303
Worker	1.4708	0.7964	10.9824	0.0471	5.3284	0.0261	5.3545	1.4441	0.0240	1.4682		4,698.8232	4,698.8232	0.0880		4,701.0227
Total	**1.8927**	**16.6509**	**15.7767**	**0.1051**	**6.6244**	**0.0431**	**6.6675**	**1.8297**	**0.0403**	**1.8700**		**11,028.6256**	**11,028.6256**	**0.4931**		**11,040.9531**

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	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	137.7703	0.0000	137.7703	33.8163	0.0000	33.8163		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	137.7703	0.0000	137.7703	33.8163	0.0000	33.8163		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
Apartments Low Rise	5,252.23	5,706.52	4837.79	15,012,965	15,012,965
Apartments Low Rise	2,866.65	3,114.60	2640.45	8,194,027	8,194,027
City Park	59.35	714.35	525.64	468,666	468,666
City Park	54.62	657.48	483.79	431,352	431,352
City Park	23.44	282.10	207.58	185,078	185,078
Elementary School	1,290.00	0.00	0.00	2,031,694	2,031,694
Regional Shopping Center	2,562.00	2,998.20	1514.40	4,338,828	4,338,828
Retirement Community	1,068.00	903.35	867.75	2,900,621	2,900,621
Single Family Housing	12,109.44	12,605.52	10964.64	34,311,512	34,311,512
User Defined Industrial	0.00	0.00	0.00		
Total	25,285.72	26,982.12	22,042.03	67,874,743	67,874,743

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Retirement Community	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
User Defined Industrial	9.50	7.30	7.30	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
Apartments Low Rise	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
City Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Elementary School	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Regional Shopping Center	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Retirement Community	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Single Family Housing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044		15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779
NaturalGas Unmitigated	1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044		15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779

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	lb/day										lb/day					
Apartments Low Rise	24511.5	0.2643	2.2589	0.9612	0.0144		0.1826	0.1826		0.1826	0.1826		2,883.7117	2,883.7117	0.0553	0.0529	2,900.8482
Apartments Low Rise	13378.3	0.1443	1.2329	0.5246	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,573.9204	1,573.9204	0.0302	0.0289	1,583.2735
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
Elementary School	1355.98	0.0146	0.1329	0.1117	8.0000e-004		0.0101	0.0101		0.0101	0.0101		159.5268	159.5268	3.0600e-003	2.9200e-003	160.4748
Regional Shopping Center	366.575	3.9500e-003	0.0359	0.0302	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003		43.1265	43.1265	8.3000e-004	7.9000e-004	43.3828
Retirement Community	13685.9	0.1476	1.2613	0.5367	8.0500e-003		0.1020	0.1020		0.1020	0.1020		1,610.1025	1,610.1025	0.0309	0.0295	1,619.6706
Single Family Housing	81501.8	0.8789	7.5110	3.1962	0.0479		0.6073	0.6073		0.6073	0.6073		9,588.4488	9,588.4488	0.1838	0.1758	9,645.4281
User Defined Industrial	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
Total		**1.4537**	**12.4329**	**5.3606**	**0.0793**		**1.0044**	**1.0044**		**1.0044**	**1.0044**		**15,858.8367**	**15,858.8367**	**0.3040**	**0.2908**	**15,953.0779**

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	lb/day										lb/day					
Apartments Low Rise	13.3783	0.1443	1.2329	0.5246	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,573.9204	1,573.9204	0.0302	0.0289	1,583.2735
Apartments Low Rise	24.5115	0.2643	2.2589	0.9612	0.0144		0.1826	0.1826		0.1826	0.1826		2,883.7117	2,883.7117	0.0553	0.0529	2,900.8482
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
Elementary School	1.35598	0.0146	0.1329	0.1117	8.0000e-004		0.0101	0.0101		0.0101	0.0101		159.5268	159.5268	3.0600e-003	2.9200e-003	160.4748
Regional Shopping Center	0.366575	3.9500e-003	0.0359	0.0302	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003		43.1265	43.1265	8.3000e-004	7.9000e-004	43.3828
Retirement Community	13.6859	0.1476	1.2613	0.5367	8.0500e-003		0.1020	0.1020		0.1020	0.1020		1,610.1025	1,610.1025	0.0309	0.0295	1,619.6706
Single Family Housing	81.5018	0.8789	7.5110	3.1962	0.0479		0.6073	0.6073		0.6073	0.6073		9,588.4488	9,588.4488	0.1838	0.1758	9,645.4281
User Defined Industrial	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
Total		**1.4537**	**12.4329**	**5.3606**	**0.0793**		**1.0044**	**1.0044**		**1.0044**	**1.0044**		**15,858.8367**	**15,858.8367**	**0.3040**	**0.2908**	**15,953.0779**

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	lb/day										lb/day					
Mitigated	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664
Unmitigated	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664

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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	88.3350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6,398.5814	124.9569	7,898.3537	14.3096		1,107.4245	1,107.4245		1,107.4245	1,107.4245	116,113.6062	48,696.3529	164,809.9591	107.1536	9.1332	170,210.4959
Landscaping	7.2594	2.7981	242.5562	0.0129		1.3496	1.3496		1.3496	1.3496		438.3289	438.3289	0.4177		448.7705
Total	**6,494.1758**	**127.7550**	**8,140.9098**	**14.3225**		**1,108.7741**	**1,108.7741**		**1,108.7741**	**1,108.7741**	**116,113.6062**	**49,134.6818**	**165,248.2880**	**107.5713**	**9.1332**	**170,659.2664**

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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	88.3350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6,398.5814	124.9569	7,898.3537	14.3096		1,107.4245	1,107.4245		1,107.4245	1,107.4245	116,113.6062	48,696.3529	164,809.9591	107.1536	9.1332	170,210.4959
Landscaping	7.2594	2.7981	242.5562	0.0129		1.3496	1.3496		1.3496	1.3496		438.3289	438.3289	0.4177		448.7705
Total	**6,494.1758**	**127.7550**	**8,140.9098**	**14.3225**		**1,108.7741**	**1,108.7741**		**1,108.7741**	**1,108.7741**	**116,113.6062**	**49,134.6818**	**165,248.2880**	**107.5713**	**9.1332**	**170,659.2664**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

APPENDIX A

CALEEMOD PRINTOUT: LAND USE PLAN WITH SCHOOLS:

ADJUSTED BUSINESS AS USUAL

UNMITIGATED PROJECT ASSUMES 60% RENEWABLE PORTFOLIO FOR SDG&E ELECTRICITY AND 2019 TITLE 24 ENERGY EFFICIENCY STANDARDS

Fanita Ranch Operation

San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	1,000.00	Student	15.00	83,603.37	0
General Light Industry	1,389.56	1000sqft	31.90	1,389,564.00	0
City Park	78.60	Acre	78.60	3,423,816.00	0
Apartments Low Rise	866.00	Dwelling Unit	67.00	866,000.00	2477
Apartments Low Rise	435.00	Dwelling Unit	35.00	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,203.00	Dwelling Unit	241.30	2,165,400.00	3441
Regional Shopping Center	60.00	1000sqft	1.50	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	288.2	**CH4 Intensity (lb/MWhr)**	0.001	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 60% renewable

Land Use - Value changed to reflect the Fanita Ranch Specific Plan

Vehicle Trips - based on TIA trip length and total daily VMT

Area Mitigation -

Energy Mitigation - 2019 Title 24 is 7% more efficient than 2016 Title 24

Fleet Mix - from EMFAC for SD air basin 2035

Woodstoves - natural gas fireplace for single family only

Land Use Change - Land Use Change - scrub = scrub and chaparral; grassland = grasslands, vernal pools, meadows, and other herb communities; trees = woodland; wetlands = bog and march + riparian and bottomland habitat. All include on-site and off-site permanent impacts only.

Sequestration -

Table Name	Column Name	Default Value	New Value
tblFireplaces	NumberGas	715.55	0.00
tblFireplaces	NumberGas	244.75	0.00
tblFireplaces	NumberGas	661.65	1,203.00
tblFireplaces	NumberNoFireplace	130.10	0.00
tblFireplaces	NumberNoFireplace	44.50	0.00
tblFireplaces	NumberNoFireplace	120.30	0.00
tblFireplaces	NumberWood	455.35	0.00
tblFireplaces	NumberWood	155.75	0.00
tblFireplaces	NumberWood	421.05	0.00
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06

tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11

tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004

tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblLandUse	LandUseSquareFeet	1,389,560.00	1,389,564.00
tblLandUse	LotAcreage	1.92	15.00
tblLandUse	LotAcreage	27.19	35.00
tblLandUse	LotAcreage	54.13	67.00
tblLandUse	LotAcreage	89.00	30.90
tblLandUse	LotAcreage	390.58	241.30
tblLandUse	LotAcreage	1.38	1.50
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.001
tblProjectCharacteristics	CO2IntensityFactor	720.49	288.2
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSequestration	NumberOfNewTrees	0.00	15,475.00
tblVehicleEF	HHD	0.41	0.03
tblVehicleEF	HHD	0.14	0.10
tblVehicleEF	HHD	0.05	0.00
tblVehicleEF	HHD	4,118.17	909.54
tblVehicleEF	HHD	1,512.65	1,140.56
tblVehicleEF	HHD	11.80	0.07
tblVehicleEF	LDA	4.2300e-003	7.6500e-004
tblVehicleEF	LDA	4.3850e-003	0.02
tblVehicleEF	LDA	176.13	192.39
tblVehicleEF	LDA	37.33	38.55
tblVehicleEF	LDT1	3.0420e-003	1.4080e-003
tblVehicleEF	LDT1	3.3850e-003	0.03
tblVehicleEF	LDT1	232.82	236.60
tblVehicleEF	LDT1	50.56	48.20
tblVehicleEF	LDT2	2.3870e-003	1.3510e-003

tblVehicleEF	LDT2	1.8590e-003	0.03
tblVehicleEF	LDT2	258.14	235.35
tblVehicleEF	LDT2	54.97	47.87
tblVehicleEF	LHD1	2.9300e-003	3.4250e-003
tblVehicleEF	LHD1	6.0480e-003	4.4990e-003
tblVehicleEF	LHD1	5.8730e-003	6.3550e-003
tblVehicleEF	LHD1	9.05	8.05
tblVehicleEF	LHD1	611.49	643.53
tblVehicleEF	LHD1	21.13	8.38
tblVehicleEF	LHD2	2.3040e-003	2.2940e-003
tblVehicleEF	LHD2	4.8200e-003	4.9830e-003
tblVehicleEF	LHD2	2.3670e-003	3.6980e-003
tblVehicleEF	LHD2	13.44	12.60
tblVehicleEF	LHD2	665.55	647.55
tblVehicleEF	LHD2	21.27	5.91
tblVehicleEF	MCY	0.50	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	184.90	219.73
tblVehicleEF	MCY	42.31	58.02
tblVehicleEF	MDV	3.3710e-003	1.3140e-003
tblVehicleEF	MDV	3.7410e-003	0.03
tblVehicleEF	MDV	343.76	284.93
tblVehicleEF	MDV	72.70	57.01
tblVehicleEF	MH	6.7790e-003	4.6040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1,182.31	1,315.89
tblVehicleEF	MH	56.45	14.31
tblVehicleEF	MHD	0.02	3.8780e-003
tblVehicleEF	MHD	2.4120e-003	9.2700e-004
tblVehicleEF	MHD	0.03	8.2820e-003
tblVehicleEF	MHD	142.07	63.64
tblVehicleEF	MHD	1,162.62	937.84
tblVehicleEF	MHD	53.67	8.13

tblVehicleEF	OBUS	0.01	8.8730e-003
tblVehicleEF	OBUS	4.2710e-003	3.0810e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	96.61	91.22
tblVehicleEF	OBUS	1,292.92	1,279.50
tblVehicleEF	OBUS	67.21	16.88
tblVehicleEF	SBUS	0.83	0.07
tblVehicleEF	SBUS	3.9020e-003	2.3430e-003
tblVehicleEF	SBUS	0.05	5.2140e-003
tblVehicleEF	SBUS	1,043.37	302.91
tblVehicleEF	SBUS	1,023.41	872.35
tblVehicleEF	SBUS	54.24	4.15
tblVehicleEF	UBUS	1.05	4.89
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	1,747.06	1,847.16
tblVehicleEF	UBUS	139.43	12.31
tblVehicleTrips	CC_TL	7.30	12.25
tblVehicleTrips	CC_TL	7.30	11.30
tblVehicleTrips	CC_TL	7.30	11.90
tblVehicleTrips	CC_TL	7.30	9.60
tblVehicleTrips	CNW_TL	7.30	12.25
tblVehicleTrips	CNW_TL	7.30	11.30
tblVehicleTrips	CNW_TL	7.30	11.90
tblVehicleTrips	CNW_TL	7.30	9.60
tblVehicleTrips	CW_TL	9.50	12.25
tblVehicleTrips	CW_TL	9.50	11.30
tblVehicleTrips	CW_TL	9.50	11.90
tblVehicleTrips	CW_TL	9.50	9.60
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00

tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HO_TL	7.50	12.80
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HS_TL	7.30	12.80
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HW_TL	10.80	20.40
tblVehicleTrips	HW_TL	10.80	12.80
tblVehicleTrips	HW_TL	10.80	20.40
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	63.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	7.16	3.92
tblVehicleTrips	ST_TR	22.75	8.42
tblVehicleTrips	ST_TR	1.32	0.04
tblVehicleTrips	ST_TR	49.97	10.43
tblVehicleTrips	ST_TR	2.03	1.86
tblVehicleTrips	ST_TR	9.91	3.92
tblVehicleTrips	SU_TR	6.07	3.92
tblVehicleTrips	SU_TR	16.74	8.42

tblVehicleTrips	SU_TR	0.68	0.04
tblVehicleTrips	SU_TR	25.24	10.43
tblVehicleTrips	SU_TR	1.95	1.86
tblVehicleTrips	SU_TR	8.62	3.92
tblVehicleTrips	WD_TR	6.59	3.94
tblVehicleTrips	WD_TR	1.89	8.42
tblVehicleTrips	WD_TR	1.29	0.69
tblVehicleTrips	WD_TR	6.97	0.04
tblVehicleTrips	WD_TR	42.70	10.43
tblVehicleTrips	WD_TR	2.40	1.86
tblVehicleTrips	WD_TR	9.52	3.94
tblWoodstoves	NumberCatalytic	65.05	0.00
tblWoodstoves	NumberCatalytic	22.25	0.00
tblWoodstoves	NumberCatalytic	60.15	0.00
tblWoodstoves	NumberNoncatalytic	65.05	0.00
tblWoodstoves	NumberNoncatalytic	22.25	0.00
tblWoodstoves	NumberNoncatalytic	60.15	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					
2019	0.4670	4.8365	2.3945	4.1900e-003	1.9303	0.2535	2.1838	1.0567	0.2332	1.2899	0.0000	376.4694	376.4694	0.1151	0.0000	379.3457
2020	0.3066	3.1425	1.6277	2.9200e-003	1.3476	0.1627	1.5103	0.7377	0.1497	0.8874	0.0000	257.0424	257.0424	0.0803	0.0000	259.0499
Maximum	**0.4670**	**4.8365**	**2.3945**	**4.1900e-003**	**1.9303**	**0.2535**	**2.1838**	**1.0567**	**0.2332**	**1.2899**	**0.0000**	**376.4694**	**376.4694**	**0.1151**	**0.0000**	**379.3457**

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					
2019	0.4670	4.8365	2.3945	4.1900e-003	1.9303	0.2535	2.1838	1.0567	0.2332	1.2899	0.0000	376.4690	376.4690	0.1151	0.0000	379.3452
2020	0.3066	3.1425	1.6277	2.9200e-003	1.3476	0.1627	1.5103	0.7377	0.1497	0.8874	0.0000	257.0421	257.0421	0.0803	0.0000	259.0496
Maximum	**0.4670**	**4.8365**	**2.3945**	**4.1900e-003**	**1.9303**	**0.2535**	**2.1838**	**1.0567**	**0.2332**	**1.2899**	**0.0000**	**376.4690**	**376.4690**	**0.1151**	**0.0000**	**379.3452**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**3-11-2019**	**6-10-2019**	1.6439	1.6439
2	**6-11-2019**	**9-10-2019**	1.6438	1.6438
3	**9-11-2019**	**12-10-2019**	1.6263	1.6263
4	**12-11-2019**	**3-10-2020**	1.5408	1.5408
5	**3-11-2020**	**6-10-2020**	1.5314	1.5314
6	**6-11-2020**	**9-10-2020**	0.7324	0.7324
		Highest	1.6439	1.6439

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	29.9414	1.0701	22.1910	6.3800e-003		0.1877	0.1877		0.1877	0.1877	0.0000	983.3557	983.3557	0.0523	0.0174	989.8406
Energy	0.3474	3.0178	1.6233	0.0190		0.2400	0.2400		0.2400	0.2400	0.0000	7,356.2830	7,356.2830	0.0795	0.0630	7,377.0534

Mobile	3.5799	14.6876	53.6521	0.2568	31.8328	0.1362	31.9690	8.5282	0.1269	8.6551	0.0000	22,612.4124	22,612.4124	1.4316	0.0000	22,648.2011
Waste						0.0000	0.0000		0.0000	0.0000	850.3860	0.0000	850.3860	50.2564	0.0000	2,106.7953
Water						0.0000	0.0000		0.0000	0.0000	165.0810	1,210.6653	1,375.7463	16.9596	0.4004	1,919.0418
Total	**33.8687**	**18.7755**	**77.4664**	**0.2821**	**31.8328**	**0.5639**	**32.3967**	**8.5282**	**0.5546**	**9.0828**	**1,015.4670**	**32,162.7164**	**33,178.1834**	**68.7793**	**0.4808**	**35,040.9322**

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	29.9414	1.0701	22.1910	6.3800e-003		0.1877	0.1877		0.1877	0.1877	0.0000	983.3557	983.3557	0.0523	0.0174	989.8406
Energy	0.3316	2.8812	1.5559	0.0181		0.2291	0.2291		0.2291	0.2291	0.0000	7,173.5868	7,173.5868	0.0764	0.0602	7,193.4244
Mobile	3.5799	14.6876	53.6521	0.2568	31.8328	0.1362	31.9690	8.5282	0.1269	8.6551	0.0000	22,612.4124	22,612.4124	1.4316	0.0000	22,648.2011
Waste						0.0000	0.0000		0.0000	0.0000	850.3860	0.0000	850.3860	50.2564	0.0000	2,106.7953
Water						0.0000	0.0000		0.0000	0.0000	165.0810	1,210.6653	1,375.7463	16.9596	0.4004	1,919.0418
Total	**33.8529**	**18.6389**	**77.3990**	**0.2812**	**31.8328**	**0.5530**	**32.3858**	**8.5282**	**0.5437**	**9.0718**	**1,015.4670**	**31,980.0202**	**32,995.4872**	**68.7763**	**0.4779**	**34,857.3031**

	ROG	NOx	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	**0.05**	**0.73**	**0.09**	**0.30**	**0.00**	**1.94**	**0.03**	**0.00**	**1.97**	**0.12**	**0.00**	**0.57**	**0.55**	**0.00**	**0.60**	**0.52**

2.3 Vegetation

Vegetation

	CO2e
Category	MT

New Trees	10,956.3000
Vegetation Land Change	-10,955.94
Total	**0.3555**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/11/2019	7/24/2020	5	360	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9150	0.0000	1.9150	1.0527	0.0000	1.0527	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4595	4.8307	2.3387	4.0300e-003		0.2534	0.2534		0.2331	0.2331	0.0000	362.1881	362.1881	0.1146	0.0000	365.0529
Total	**0.4595**	**4.8307**	**2.3387**	**4.0300e-003**	**1.9150**	**0.2534**	**2.1684**	**1.0527**	**0.2331**	**1.2858**	**0.0000**	**362.1881**	**362.1881**	**0.1146**	**0.0000**	**365.0529**

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	7.5200e-003	5.7700e-003	0.0558	1.6000e-004	0.0153	1.1000e-004	0.0154	4.0700e-003	1.0000e-004	4.1700e-003	0.0000	14.2813	14.2813	4.6000e-004	0.0000	14.2928
Total	**7.5200e-003**	**5.7700e-003**	**0.0558**	**1.6000e-004**	**0.0153**	**1.1000e-004**	**0.0154**	**4.0700e-003**	**1.0000e-004**	**4.1700e-003**	**0.0000**	**14.2813**	**14.2813**	**4.6000e-004**	**0.0000**	**14.2928**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9150	0.0000	1.9150	1.0527	0.0000	1.0527	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4595	4.8307	2.3387	4.0300e-003		0.2534	0.2534		0.2331	0.2331	0.0000	362.1876	362.1876	0.1146	0.0000	365.0525
Total	**0.4595**	**4.8307**	**2.3387**	**4.0300e-003**	**1.9150**	**0.2534**	**2.1684**	**1.0527**	**0.2331**	**1.2858**	**0.0000**	**362.1876**	**362.1876**	**0.1146**	**0.0000**	**365.0525**

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	7.5200e-003	5.7700e-003	0.0558	1.6000e-004	0.0153	1.1000e-004	0.0154	4.0700e-003	1.0000e-004	4.1700e-003	0.0000	14.2813	14.2813	4.6000e-004	0.0000	14.2928
Total	**7.5200e-003**	**5.7700e-003**	**0.0558**	**1.6000e-004**	**0.0153**	**1.1000e-004**	**0.0154**	**4.0700e-003**	**1.0000e-004**	**4.1700e-003**	**0.0000**	**14.2813**	**14.2813**	**4.6000e-004**	**0.0000**	**14.2928**

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3369	0.0000	1.3369	0.7349	0.0000	0.7349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3017	3.1389	1.5920	2.8100e-003		0.1626	0.1626		0.1496	0.1496	0.0000	247.3870	247.3870	0.0800	0.0000	249.3873
Total	**0.3017**	**3.1389**	**1.5920**	**2.8100e-003**	**1.3369**	**0.1626**	**1.4995**	**0.7349**	**0.1496**	**0.8845**	**0.0000**	**247.3870**	**247.3870**	**0.0800**	**0.0000**	**249.3873**

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9100e-003	3.6400e-003	0.0356	1.1000e-004	0.0107	8.0000e-005	0.0108	2.8400e-003	7.0000e-005	2.9100e-003	0.0000	9.6553	9.6553	2.9000e-004	0.0000	9.6626
Total	**4.9100e-003**	**3.6400e-003**	**0.0356**	**1.1000e-004**	**0.0107**	**8.0000e-005**	**0.0108**	**2.8400e-003**	**7.0000e-005**	**2.9100e-003**	**0.0000**	**9.6553**	**9.6553**	**2.9000e-004**	**0.0000**	**9.6626**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3369	0.0000	1.3369	0.7349	0.0000	0.7349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3017	3.1389	1.5920	2.8100e-003		0.1626	0.1626		0.1496	0.1496	0.0000	247.3867	247.3867	0.0800	0.0000	249.3870
Total	**0.3017**	**3.1389**	**1.5920**	**2.8100e-003**	**1.3369**	**0.1626**	**1.4995**	**0.7349**	**0.1496**	**0.8845**	**0.0000**	**247.3867**	**247.3867**	**0.0800**	**0.0000**	**249.3870**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9100e-003	3.6400e-003	0.0356	1.1000e-004	0.0107	8.0000e-005	0.0108	2.8400e-003	7.0000e-005	2.9100e-003	0.0000	9.6553	9.6553	2.9000e-004	0.0000	9.6626
Total	**4.9100e-003**	**3.6400e-003**	**0.0356**	**1.1000e-004**	**0.0107**	**8.0000e-005**	**0.0108**	**2.8400e-003**	**7.0000e-005**	**2.9100e-003**	**0.0000**	**9.6553**	**9.6553**	**2.9000e-004**	**0.0000**	**9.6626**

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	3.5799	14.6876	53.6521	0.2568	31.8328	0.1362	31.9690	8.5282	0.1269	8.6551	0.0000	22,612.4124	22,612.4124	1.4316	0.0000	22,648.2011
Unmitigated	3.5799	14.6876	53.6521	0.2568	31.8328	0.1362	31.9690	8.5282	0.1269	8.6551	0.0000	22,612.4124	22,612.4124	1.4316	0.0000	22,648.2011

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	3,412.04	3,394.72	3394.72	25,299,698	25,299,698
Apartments Low Rise	1,713.90	1,705.20	1705.20	12,708,278	12,708,278
City Park	661.81	661.81	661.81	2,951,020	2,951,020
Elementary School	690.00	0.00	0.00	2,027,220	2,027,220
General Light Industry	55.58	55.58	55.58	240,761	240,761
Regional Shopping Center	625.80	625.80	625.80	2,186,796	2,186,796
Retirement Community	827.70	827.70	827.70	3,856,420	3,856,420
Single Family Housing	4,739.82	4,715.76	4715.76	35,144,962	35,144,962
Total	12,726.65	11,986.57	11,986.57	84,415,154	84,415,154

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
City Park	12.25	12.25	12.25	33.00	48.00	19.00	100	0	0
Elementary School	11.30	11.30	11.30	65.00	30.00	5.00	100	0	0
General Light Industry	11.90	11.90	11.90	59.00	28.00	13.00	100	0	0
Regional Shopping Center	9.60	9.60	9.60	16.30	64.70	19.00	100	0	0
Retirement Community	12.80	12.80	12.80	41.60	18.80	39.60	100	0	0

Single Family Housing	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
City Park	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Elementary School	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
General Light Industry	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Regional Shopping Center	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Retirement Community	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Single Family Housing	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3,892.1453	3,892.1453	0.0135	0.0000	3,892.4829
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,918.2523	3,918.2523	0.0136	0.0000	3,918.5922
NaturalGas Mitigated	0.3316	2.8812	1.5559	0.0181		0.2291	0.2291		0.2291	0.2291	0.0000	3,281.4415	3,281.4415	0.0629	0.0602	3,300.9415
NaturalGas Unmitigated	0.3474	3.0178	1.6233	0.0190		0.2400	0.2400		0.2400	0.2400	0.0000	3,438.0307	3,438.0307	0.0659	0.0630	3,458.4612

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 Low Rise	4.88309e+006	0.0263	0.2250	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	260.5802	260.5802	4.9900e-003	4.7800e-003	262.1287
Apartments Low Rise	9.72127e+006	0.0524	0.4479	0.1906	2.8600e-003		0.0362	0.0362		0.0362	0.0362	0.0000	518.7642	518.7642	9.9400e-003	9.5100e-003	521.8470
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
Elementary School	494932	2.6700e-003	0.0243	0.0204	1.5000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	26.4115	26.4115	5.1000e-004	4.8000e-004	26.5684
General Light Industry	1.60634e+007	0.0866	0.7874	0.6614	4.7200e-003		0.0598	0.0598		0.0598	0.0598	0.0000	857.2021	857.2021	0.0164	0.0157	862.2960
Regional Shopping Center	133800	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1401	7.1401	1.4000e-004	1.3000e-004	7.1825
Retirement Community	4.99534e+006	0.0269	0.2302	0.0980	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	266.5705	266.5705	5.1100e-003	4.8900e-003	268.1546
Single Family Housing	2.81345e+007	0.1517	1.2964	0.5517	8.2700e-003		0.1048	0.1048		0.1048	0.1048	0.0000	1,501.3622	1,501.3622	0.0288	0.0275	1,510.2840
Total		**0.3474**	**3.0178**	**1.6233**	**0.0190**		**0.2400**	**0.2400**		**0.2400**	**0.2400**	**0.0000**	**3,438.0307**	**3,438.0307**	**0.0659**	**0.0630**	**3,458.4612**

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 Low Rise	4.66855e+006	0.0252	0.2151	0.0915	1.3700e-003		0.0174	0.0174		0.0174	0.0174	0.0000	249.1318	249.1318	4.7800e-003	4.5700e-003	250.6122
Apartments Low Rise	9.29418e+006	0.0501	0.4283	0.1822	2.7300e-003		0.0346	0.0346		0.0346	0.0346	0.0000	495.9727	495.9727	9.5100e-003	9.0900e-003	498.9200
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
Elementary School	463096	2.5000e-003	0.0227	0.0191	1.4000e-004		1.7300e-003	1.7300e-003		1.7300e-003	1.7300e-003	0.0000	24.7126	24.7126	4.7000e-004	4.5000e-004	24.8594
General Light Industry	1.56441e+007	0.0844	0.7669	0.6442	4.6000e-003		0.0583	0.0583		0.0583	0.0583	0.0000	834.8303	834.8303	0.0160	0.0153	839.7913
Regional Shopping Center	129012	7.0000e-004	6.3200e-003	5.3100e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.8846	6.8846	1.3000e-004	1.3000e-004	6.9255

Retirement Community	4.77588e+006	0.0258	0.2201	0.0936	1.4000e-003		0.0178	0.0178		0.0178	0.0178	0.0000	254.8589	254.8589	4.8800e-003	4.6700e-003	256.3734
Single Family Housing	2.65171e+007	0.1430	1.2219	0.5199	7.8000e-003		0.0988	0.0988		0.0988	0.0988	0.0000	1,415.0508	1,415.0508	0.0271	0.0259	1,423.4597
Total		**0.3316**	**2.8812**	**1.5559**	**0.0181**		**0.2291**	**0.2291**		**0.2291**	**0.2291**	**0.0000**	**3,281.4415**	**3,281.4415**	**0.0629**	**0.0602**	**3,300.9415**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.84613e+006	241.3361	8.4000e-004	0.0000	241.3570
Apartments Low Rise	3.67529e+006	480.4530	1.6700e-003	0.0000	480.4947
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	438082	57.2684	2.0000e-004	0.0000	57.2733
General Light Industry	1.15473e+007	1,509.5215	5.2400e-003	0.0000	1,509.6524
Regional Shopping Center	753600	98.5146	3.4000e-004	0.0000	98.5232
Retirement Community	1.97345e+006	257.9799	9.0000e-004	0.0000	258.0023
Single Family Housing	9.73934e+006	1,273.1788	4.4200e-003	0.0000	1,273.2893
Total		**3,918.2523**	**0.0136**	**0.0000**	**3,918.5922**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.83819e+006	240.2977	8.3000e-004	0.0000	240.3186

Apartments Low Rise	3.65947e+006	478.3858	1.6600e-003	0.0000	478.4273
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	429186	56.1055	1.9000e-004	0.0000	56.1104
General Light Industry	1.14296e+007	1,494.1356	5.1800e-003	0.0000	1,494.2652
Regional Shopping Center	740244	96.7686	3.4000e-004	0.0000	96.7770
Retirement Community	1.96532e+006	256.9177	8.9000e-004	0.0000	256.9400
Single Family Housing	9.71146e+006	1,269.5343	4.4100e-003	0.0000	1,269.6444
Total		**3,892.1453**	**0.0135**	**0.0000**	**3,892.4829**

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	29.9414	1.0701	22.1910	6.3800e-003		0.1877	0.1877		0.1877	0.1877	0.0000	983.3557	983.3557	0.0523	0.0174	989.8406
Unmitigated	29.9414	1.0701	22.1910	6.3800e-003		0.1877	0.1877		0.1877	0.1877	0.0000	983.3557	983.3557	0.0523	0.0174	989.8406

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	7.8952					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	21.2960					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0957	0.8182	0.3482	5.2200e-003		0.0662	0.0662		0.0662	0.0662	0.0000	947.5427	947.5427	0.0182	0.0174	953.1735
Landscaping	0.6545	0.2519	21.8428	1.1600e-003		0.1215	0.1215		0.1215	0.1215	0.0000	35.8130	35.8130	0.0342	0.0000	36.6671
Total	**29.9414**	**1.0701**	**22.1910**	**6.3800e-003**		**0.1877**	**0.1877**		**0.1877**	**0.1877**	**0.0000**	**983.3557**	**983.3557**	**0.0523**	**0.0174**	**989.8406**

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	7.8952					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	21.2960					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0957	0.8182	0.3482	5.2200e-003		0.0662	0.0662		0.0662	0.0662	0.0000	947.5427	947.5427	0.0182	0.0174	953.1735
Landscaping	0.6545	0.2519	21.8428	1.1600e-003		0.1215	0.1215		0.1215	0.1215	0.0000	35.8130	35.8130	0.0342	0.0000	36.6671
Total	**29.9414**	**1.0701**	**22.1910**	**6.3800e-003**		**0.1877**	**0.1877**		**0.1877**	**0.1877**	**0.0000**	**983.3557**	**983.3557**	**0.0523**	**0.0174**	**989.8406**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e

Category	MT/yr			
Mitigated	1,375.7463	16.9596	0.4004	1,919.0418
Unmitigated	1,375.7463	16.9596	0.4004	1,919.0418

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	84.7654 / 53.439	248.7903	2.7629	0.0652	337.2967
City Park	0 / 93.6504	136.0140	4.7000e-004	0.0000	136.0258
Elementary School	2.42424 / 6.23376	13.9492	0.0790	1.8700e-003	16.4811
General Light Industry	321.336 / 0	648.9145	10.4726	0.2472	984.4067
Regional Shopping Center	4.44435 / 2.72396	12.9312	0.1449	3.4200e-003	17.5717
Retirement Community	28.9935 / 18.2785	85.0974	0.9450	0.0223	115.3705
Single Family Housing	78.3803 / 49.4137	230.0497	2.5547	0.0603	311.8893
Total		**1,375.7463**	**16.9596**	**0.4004**	**1,919.0418**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	84.7654 / 53.439	248.7903	2.7629	0.0652	337.2967

City Park	0 / 93.6504	136.0140	4.7000e-004	0.0000	136.0258
Elementary School	2.42424 / 6.23376	13.9492	0.0790	1.8700e-003	16.4811
General Light Industry	321.336 / 0	648.9145	10.4726	0.2472	984.4067
Regional Shopping Center	4.44435 / 2.72396	12.9312	0.1449	3.4200e-003	17.5717
Retirement Community	28.9935 / 18.2785	85.0974	0.9450	0.0223	115.3705
Single Family Housing	78.3803 / 49.4137	230.0497	2.5547	0.0603	311.8893
Total		**1,375.7463**	**16.9596**	**0.4004**	**1,919.0418**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	850.3860	50.2564	0.0000	2,106.7953
Unmitigated	850.3860	50.2564	0.0000	2,106.7953

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			

Apartments Low Rise	598.46	121.4820	7.1794	0.0000	300.9664
City Park	6.76	1.3722	0.0811	0.0000	3.3996
Elementary School	182.5	37.0459	2.1894	0.0000	91.7795
General Light Industry	1723.05	349.7636	20.6704	0.0000	866.5245
Regional Shopping Center	63	12.7884	0.7558	0.0000	31.6828
Retirement Community	204.7	41.5523	2.4557	0.0000	102.9439
Single Family Housing	1410.81	286.3817	16.9247	0.0000	709.4985
Total		**850.3860**	**50.2564**	**0.0000**	**2,106.7953**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	598.46	121.4820	7.1794	0.0000	300.9664
City Park	6.76	1.3722	0.0811	0.0000	3.3996
Elementary School	182.5	37.0459	2.1894	0.0000	91.7795
General Light Industry	1723.05	349.7636	20.6704	0.0000	866.5245
Regional Shopping Center	63	12.7884	0.7558	0.0000	31.6828
Retirement Community	204.7	41.5523	2.4557	0.0000	102.9439
Single Family Housing	1410.81	286.3817	16.9247	0.0000	709.4985
Total		**850.3860**	**50.2564**	**0.0000**	**2,106.7953**

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

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	0.3555	0.0000	0.0000	0.3555

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	186.15 / 0	-802.3065	0.0000	0.0000	-802.3065
Scrub	691.26 / 0	-9,885.0180	0.0000	0.0000	-9,885.0180

Trees	2.42 / 0	-268.6200	0.0000	0.0000	-268.6200
Wetlands	6.17 / 0	0.0000	0.0000	0.0000	0.0000
Total		**-10,955.9445**	**0.0000**	**0.0000**	**-10,955.9445**

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	15475	10,956.3000	0.0000	0.0000	10,956.3000
Total		**10,956.3000**	**0.0000**	**0.0000**	**10,956.3000**

APPENDIX A

CALEEMOD PRINTOUT: LAND USE PLAN WITHOUT SCHOOLS:

ADJUSTED BUSINESS AS USUAL

UNMITIGATED PROJECT ASSUMES 60% RENEWABLE PORTFOLIO FOR SDG&E ELECTRICITY AND 2019 TITLE 24 ENERGY EFFICIENCY STANDARDS

Fanita Ranch Operation

San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1,389.56	1000sqft	31.90	1,389,564.00	0
City Park	78.60	Acre	78.60	3,423,816.00	0
Apartments Low Rise	866.00	Dwelling Unit	67.00	866,000.00	2477
Apartments Low Rise	435.00	Dwelling Unit	35.00	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,262.00	Dwelling Unit	256.30	2,271,600.00	3609
Regional Shopping Center	60.00	1000sqft	1.50	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	288.2	**CH4 Intensity (lb/MWhr)**	0.001	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 60% renewable energy

Land Use - Value changed to reflect the Fanita Ranch Specific Plan

Vehicle Trips - based on TIA trip length and total daily VMT

Area Mitigation -

Energy Mitigation - 2019 Title 24 is 7% more efficient than 2016 Title 24

Fleet Mix - from EMFAC for SD air basin 2035

Woodstoves - natural gas fireplace for single family only

Land Use Change - Land Use Change - scrub = scrub and chaparral; grassland = grasslands, vernal pools, meadows, and other herb communities;

Sequestration -

Table Name	Column Name	Default Value	New Value
tblFireplaces	NumberGas	715.55	0.00
tblFireplaces	NumberGas	244.75	0.00
tblFireplaces	NumberGas	694.10	1,262.00
tblFireplaces	NumberNoFireplace	130.10	0.00
tblFireplaces	NumberNoFireplace	44.50	0.00
tblFireplaces	NumberNoFireplace	126.20	0.00
tblFireplaces	NumberWood	455.35	0.00
tblFireplaces	NumberWood	155.75	0.00
tblFireplaces	NumberWood	441.70	0.00
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06

tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11

tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblLandUse	LandUseSquareFeet	1,389,560.00	1,389,564.00
tblLandUse	LotAcreage	27.19	35.00

tblLandUse	LotAcreage	54.13	67.00
tblLandUse	LotAcreage	89.00	30.90
tblLandUse	LotAcreage	409.74	256.30
tblLandUse	LotAcreage	1.38	1.50
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.001
tblProjectCharacteristics	CO2IntensityFactor	720.49	288.2
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSequestration	NumberOfNewTrees	0.00	15,475.00
tblVehicleEF	HHD	0.41	0.03
tblVehicleEF	HHD	0.14	0.10
tblVehicleEF	HHD	0.05	0.00
tblVehicleEF	HHD	4,118.17	909.54
tblVehicleEF	HHD	1,512.65	1,140.56
tblVehicleEF	HHD	11.80	0.07
tblVehicleEF	LDA	4.2300e-003	7.6500e-004
tblVehicleEF	LDA	4.3850e-003	0.02
tblVehicleEF	LDA	176.13	192.39
tblVehicleEF	LDA	37.33	38.55
tblVehicleEF	LDT1	3.0420e-003	1.4080e-003
tblVehicleEF	LDT1	3.3850e-003	0.03
tblVehicleEF	LDT1	232.82	236.60
tblVehicleEF	LDT1	50.56	48.20
tblVehicleEF	LDT2	2.3870e-003	1.3510e-003
tblVehicleEF	LDT2	1.8590e-003	0.03
tblVehicleEF	LDT2	258.14	235.35
tblVehicleEF	LDT2	54.97	47.87
tblVehicleEF	LHD1	2.9300e-003	3.4250e-003
tblVehicleEF	LHD1	6.0480e-003	4.4990e-003
tblVehicleEF	LHD1	5.8730e-003	6.3550e-003
tblVehicleEF	LHD1	9.05	8.05
tblVehicleEF	LHD1	611.49	643.53
tblVehicleEF	LHD1	21.13	8.38

tblVehicleEF	LHD2	2.3040e-003	2.2940e-003
tblVehicleEF	LHD2	4.8200e-003	4.9830e-003
tblVehicleEF	LHD2	2.3670e-003	3.6980e-003
tblVehicleEF	LHD2	13.44	12.60
tblVehicleEF	LHD2	665.55	647.55
tblVehicleEF	LHD2	21.27	5.91
tblVehicleEF	MCY	0.50	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	184.90	219.73
tblVehicleEF	MCY	42.31	58.02
tblVehicleEF	MDV	3.3710e-003	1.3140e-003
tblVehicleEF	MDV	3.7410e-003	0.03
tblVehicleEF	MDV	343.76	284.93
tblVehicleEF	MDV	72.70	57.01
tblVehicleEF	MH	6.7790e-003	4.6040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1,182.31	1,315.89
tblVehicleEF	MH	56.45	14.31
tblVehicleEF	MHD	0.02	3.8780e-003
tblVehicleEF	MHD	2.4120e-003	9.2700e-004
tblVehicleEF	MHD	0.03	8.2820e-003
tblVehicleEF	MHD	142.07	63.64
tblVehicleEF	MHD	1,162.62	937.84
tblVehicleEF	MHD	53.67	8.13
tblVehicleEF	OBUS	0.01	8.8730e-003
tblVehicleEF	OBUS	4.2710e-003	3.0810e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	96.61	91.22
tblVehicleEF	OBUS	1,292.92	1,279.50
tblVehicleEF	OBUS	67.21	16.88
tblVehicleEF	SBUS	0.83	0.07
tblVehicleEF	SBUS	3.9020e-003	2.3430e-003

tblVehicleEF	SBUS	0.05	5.2140e-003
tblVehicleEF	SBUS	1,043.37	302.91
tblVehicleEF	SBUS	1,023.41	872.35
tblVehicleEF	SBUS	54.24	4.15
tblVehicleEF	UBUS	1.05	4.89
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	1,747.06	1,847.16
tblVehicleEF	UBUS	139.43	12.31
tblVehicleTrips	CC_TL	7.30	12.25
tblVehicleTrips	CC_TL	7.30	11.90
tblVehicleTrips	CC_TL	7.30	9.60
tblVehicleTrips	CNW_TL	7.30	12.25
tblVehicleTrips	CNW_TL	7.30	11.90
tblVehicleTrips	CNW_TL	7.30	9.60
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tblVehicleTrips	CW_TL	9.50	11.90
tblVehicleTrips	CW_TL	9.50	9.60
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HO_TL	7.50	12.80
tblVehicleTrips	HO_TL	7.50	20.40
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tblVehicleTrips	PB_TP	3.00	0.00
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tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	7.16	4.04
tblVehicleTrips	ST_TR	22.75	8.62
tblVehicleTrips	ST_TR	1.32	0.04
tblVehicleTrips	ST_TR	49.97	10.68
tblVehicleTrips	ST_TR	2.03	1.90
tblVehicleTrips	ST_TR	9.91	4.04
tblVehicleTrips	SU_TR	6.07	4.04
tblVehicleTrips	SU_TR	16.74	8.62
tblVehicleTrips	SU_TR	0.68	0.04
tblVehicleTrips	SU_TR	25.24	10.68
tblVehicleTrips	SU_TR	1.95	1.90
tblVehicleTrips	SU_TR	8.62	4.04
tblVehicleTrips	WD_TR	6.59	4.05
tblVehicleTrips	WD_TR	1.89	8.62
tblVehicleTrips	WD_TR	6.97	0.04
tblVehicleTrips	WD_TR	42.70	10.68
tblVehicleTrips	WD_TR	2.40	1.90
tblVehicleTrips	WD_TR	9.52	4.05
tblWoodstoves	NumberCatalytic	65.05	0.00
tblWoodstoves	NumberCatalytic	22.25	0.00

tblWoodstoves	NumberCatalytic	63.10	0.00
tblWoodstoves	NumberNoncatalytic	65.05	0.00
tblWoodstoves	NumberNoncatalytic	22.25	0.00
tblWoodstoves	NumberNoncatalytic	63.10	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					
2019	0.4670	4.8365	2.3945	4.1900e-003	1.9303	0.2535	2.1838	1.0567	0.2332	1.2899	0.0000	376.4694	376.4694	0.1151	0.0000	379.3457
2020	0.3066	3.1425	1.6277	2.9200e-003	1.3476	0.1627	1.5103	0.7377	0.1497	0.8874	0.0000	257.0424	257.0424	0.0803	0.0000	259.0499
Maximum	**0.4670**	**4.8365**	**2.3945**	**4.1900e-003**	**1.9303**	**0.2535**	**2.1838**	**1.0567**	**0.2332**	**1.2899**	**0.0000**	**376.4694**	**376.4694**	**0.1151**	**0.0000**	**379.3457**

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					
2019	0.4670	4.8365	2.3945	4.1900e-003	1.9303	0.2535	2.1838	1.0567	0.2332	1.2899	0.0000	376.4690	376.4690	0.1151	0.0000	379.3452
2020	0.3066	3.1425	1.6277	2.9200e-003	1.3476	0.1627	1.5103	0.7377	0.1497	0.8874	0.0000	257.0421	257.0421	0.0803	0.0000	259.0496
Maximum	**0.4670**	**4.8365**	**2.3945**	**4.1900e-003**	**1.9303**	**0.2535**	**2.1838**	**1.0567**	**0.2332**	**1.2899**	**0.0000**	**376.4690**	**376.4690**	**0.1151**	**0.0000**	**379.3452**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**3-11-2019**	**6-10-2019**	1.6439	1.6439
2	**6-11-2019**	**9-10-2019**	1.6438	1.6438
3	**9-11-2019**	**12-10-2019**	1.6263	1.6263
4	**12-11-2019**	**3-10-2020**	1.5408	1.5408
5	**3-11-2020**	**6-10-2020**	1.5314	1.5314
6	**6-11-2020**	**9-10-2020**	0.7324	0.7324
		Highest	1.6439	1.6439

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	30.1158	1.1152	22.6354	6.6600e-003		0.1933	0.1933		0.1933	0.1933	0.0000	1,030.5248	1,030.5248	0.0539	0.0182	1,037.3017
Energy	0.3522	3.0571	1.6300	0.0192		0.2433	0.2433		0.2433	0.2433	0.0000	7,408.6780	7,408.6780	0.0804	0.0639	7,429.7294
Mobile	3.6473	14.9568	54.8589	0.2629	32.6058	0.1394	32.7451	8.7353	0.1299	8.8651	0.0000	23,156.3869	23,156.3869	1.4642	0.0000	23,192.9912
Waste						0.0000	0.0000		0.0000	0.0000	827.3222	0.0000	827.3222	48.8933	0.0000	2,049.6556
Water						0.0000	0.0000		0.0000	0.0000	165.5315	1,207.5482	1,373.0796	17.0059	0.4015	1,917.8571
Total	**34.1153**	**19.1291**	**79.1243**	**0.2888**	**32.6058**	**0.5760**	**33.1818**	**8.7353**	**0.5665**	**9.3018**	**992.8536**	**32,803.1378**	**33,795.9914**	**67.4976**	**0.4836**	**35,627.5350**

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	30.1158	1.1152	22.6354	6.6600e-003		0.1933	0.1933		0.1933	0.1933	0.0000	1,030.5248	1,030.5248	0.0539	0.0182	1,037.3017
Energy	0.3361	2.9184	1.5624	0.0183		0.2322	0.2322		0.2322	0.2322	0.0000	7,224.4317	7,224.4317	0.0773	0.0610	7,244.5354
Mobile	3.6473	14.9568	54.8589	0.2629	32.6058	0.1394	32.7451	8.7353	0.1299	8.8651	0.0000	23,156.3869	23,156.3869	1.4642	0.0000	23,192.9912
Waste						0.0000	0.0000		0.0000	0.0000	827.3222	0.0000	827.3222	48.8933	0.0000	2,049.6556
Water						0.0000	0.0000		0.0000	0.0000	165.5315	1,207.5482	1,373.0796	17.0059	0.4015	1,917.8571
Total	**34.0992**	**18.9905**	**79.0567**	**0.2879**	**32.6058**	**0.5649**	**33.1707**	**8.7353**	**0.5554**	**9.2906**	**992.8536**	**32,618.8915**	**33,611.7451**	**67.4945**	**0.4807**	**35,442.3410**

	ROG	NOx	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	**0.05**	**0.72**	**0.09**	**0.30**	**0.00**	**1.93**	**0.03**	**0.00**	**1.96**	**0.12**	**0.00**	**0.56**	**0.55**	**0.00**	**0.60**	**0.52**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	10,956.3000
Vegetation Land Change	-10,955.9445
Total	**0.3555**

3.0 Construction Detail

Construction Phase

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

1	Site Preparation	Site Preparation	3/11/2019	7/24/2020	5	360	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9150	0.0000	1.9150	1.0527	0.0000	1.0527	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4595	4.8307	2.3387	4.0300e-003		0.2534	0.2534		0.2331	0.2331	0.0000	362.1881	362.1881	0.1146	0.0000	365.0529
Total	**0.4595**	**4.8307**	**2.3387**	**4.0300e-003**	**1.9150**	**0.2534**	**2.1684**	**1.0527**	**0.2331**	**1.2858**	**0.0000**	**362.1881**	**362.1881**	**0.1146**	**0.0000**	**365.0529**

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	7.5200e-003	5.7700e-003	0.0558	1.6000e-004	0.0153	1.1000e-004	0.0154	4.0700e-003	1.0000e-004	4.1700e-003	0.0000	14.2813	14.2813	4.6000e-004	0.0000	14.2928
Total	**7.5200e-003**	**5.7700e-003**	**0.0558**	**1.6000e-004**	**0.0153**	**1.1000e-004**	**0.0154**	**4.0700e-003**	**1.0000e-004**	**4.1700e-003**	**0.0000**	**14.2813**	**14.2813**	**4.6000e-004**	**0.0000**	**14.2928**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9150	0.0000	1.9150	1.0527	0.0000	1.0527	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4595	4.8307	2.3387	4.0300e-003		0.2534	0.2534		0.2331	0.2331	0.0000	362.1876	362.1876	0.1146	0.0000	365.0525
Total	**0.4595**	**4.8307**	**2.3387**	**4.0300e-003**	**1.9150**	**0.2534**	**2.1684**	**1.0527**	**0.2331**	**1.2858**	**0.0000**	**362.1876**	**362.1876**	**0.1146**	**0.0000**	**365.0525**

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	7.5200e-003	5.7700e-003	0.0558	1.6000e-004	0.0153	1.1000e-004	0.0154	4.0700e-003	1.0000e-004	4.1700e-003	0.0000	14.2813	14.2813	4.6000e-004	0.0000	14.2928
Total	**7.5200e-003**	**5.7700e-003**	**0.0558**	**1.6000e-004**	**0.0153**	**1.1000e-004**	**0.0154**	**4.0700e-003**	**1.0000e-004**	**4.1700e-003**	**0.0000**	**14.2813**	**14.2813**	**4.6000e-004**	**0.0000**	**14.2928**

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3369	0.0000	1.3369	0.7349	0.0000	0.7349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3017	3.1389	1.5920	2.8100e-003		0.1626	0.1626		0.1496	0.1496	0.0000	247.3870	247.3870	0.0800	0.0000	249.3873
Total	**0.3017**	**3.1389**	**1.5920**	**2.8100e-003**	**1.3369**	**0.1626**	**1.4995**	**0.7349**	**0.1496**	**0.8845**	**0.0000**	**247.3870**	**247.3870**	**0.0800**	**0.0000**	**249.3873**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9100e-003	3.6400e-003	0.0356	1.1000e-004	0.0107	8.0000e-005	0.0108	2.8400e-003	7.0000e-005	2.9100e-003	0.0000	9.6553	9.6553	2.9000e-004	0.0000	9.6626

Total	**4.9100e-003**	**3.6400e-003**	**0.0356**	**1.1000e-004**	**0.0107**	**8.0000e-005**	**0.0108**	**2.8400e-003**	**7.0000e-005**	**2.9100e-003**	**0.0000**	**9.6553**	**9.6553**	**2.9000e-004**	**0.0000**	**9.6626**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3369	0.0000	1.3369	0.7349	0.0000	0.7349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3017	3.1389	1.5920	2.8100e-003		0.1626	0.1626		0.1496	0.1496	0.0000	247.3867	247.3867	0.0800	0.0000	249.3870
Total	**0.3017**	**3.1389**	**1.5920**	**2.8100e-003**	**1.3369**	**0.1626**	**1.4995**	**0.7349**	**0.1496**	**0.8845**	**0.0000**	**247.3867**	**247.3867**	**0.0800**	**0.0000**	**249.3870**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9100e-003	3.6400e-003	0.0356	1.1000e-004	0.0107	8.0000e-005	0.0108	2.8400e-003	7.0000e-005	2.9100e-003	0.0000	9.6553	9.6553	2.9000e-004	0.0000	9.6626
Total	**4.9100e-003**	**3.6400e-003**	**0.0356**	**1.1000e-004**	**0.0107**	**8.0000e-005**	**0.0108**	**2.8400e-003**	**7.0000e-005**	**2.9100e-003**	**0.0000**	**9.6553**	**9.6553**	**2.9000e-004**	**0.0000**	**9.6626**

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	3.6473	14.9568	54.8589	0.2629	32.6058	0.1394	32.7451	8.7353	0.1299	8.8651	0.0000	23,156.3869	23,156.3869	1.4642	0.0000	23,192.9912
Unmitigated	3.6473	14.9568	54.8589	0.2629	32.6058	0.1394	32.7451	8.7353	0.1299	8.8651	0.0000	23,156.3869	23,156.3869	1.4642	0.0000	23,192.9912

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	3,507.30	3,498.64	3498.64	26,025,434	26,025,434
Apartments Low Rise	1,761.75	1,757.40	1757.40	13,072,822	13,072,822
City Park	677.53	677.53	677.53	3,021,115	3,021,115
General Light Industry	55.58	55.58	55.58	240,761	240,761
Regional Shopping Center	640.80	640.80	640.80	2,239,212	2,239,212
Retirement Community	845.50	845.50	845.50	3,939,354	3,939,354
Single Family Housing	5,111.10	5,098.48	5098.48	37,926,210	37,926,210
Total	12,599.56	12,573.93	12,573.93	86,464,906	86,464,906

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
City Park	12.25	12.25	12.25	33.00	48.00	19.00	100	0	0
General Light Industry	11.90	11.90	11.90	59.00	28.00	13.00	100	0	0
Regional Shopping Center	9.60	9.60	9.60	16.30	64.70	19.00	100	0	0
Retirement Community	12.80	12.80	12.80	41.60	18.80	39.60	100	0	0
Single Family Housing	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
City Park	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
General Light Industry	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Regional Shopping Center	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Retirement Community	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Single Family Housing	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3,898.3029	3,898.3029	0.0135	0.0000	3,898.6411
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,923.4258	3,923.4258	0.0136	0.0000	3,923.7662
NaturalGas Mitigated	0.3361	2.9184	1.5624	0.0183		0.2322	0.2322		0.2322	0.2322	0.0000	3,326.1288	3,326.1288	0.0638	0.0610	3,345.8943
NaturalGas Unmitigated	0.3522	3.0571	1.6300	0.0192		0.2433	0.2433		0.2433	0.2433	0.0000	3,485.2521	3,485.2521	0.0668	0.0639	3,505.9632

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 Low Rise	4.88309e+006	0.0263	0.2250	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	260.5802	260.5802	4.9900e-003	4.7800e-003	262.1287
Apartments Low Rise	9.72127e+006	0.0524	0.4479	0.1906	2.8600e-003		0.0362	0.0362		0.0362	0.0362	0.0000	518.7642	518.7642	9.9400e-003	9.5100e-003	521.8470
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
General Light Industry	1.60634e+007	0.0866	0.7874	0.6614	4.7200e-003		0.0598	0.0598		0.0598	0.0598	0.0000	857.2021	857.2021	0.0164	0.0157	862.2960
Regional Shopping Center	133800	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1401	7.1401	1.4000e-004	1.3000e-004	7.1825
Retirement Community	4.99534e+006	0.0269	0.2302	0.0980	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	266.5705	266.5705	5.1100e-003	4.8900e-003	268.1546
Single Family Housing	2.95143e+007	0.1592	1.3600	0.5787	8.6800e-003		0.1100	0.1100		0.1100	0.1100	0.0000	1,574.9951	1,574.9951	0.0302	0.0289	1,584.3545
Total		**0.3522**	**3.0571**	**1.6300**	**0.0192**		**0.2433**	**0.2433**		**0.2433**	**0.2433**	**0.0000**	**3,485.2521**	**3,485.2521**	**0.0668**	**0.0639**	**3,505.9633**

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 Low Rise	4.66855e+006	0.0252	0.2151	0.0915	1.3700e-003		0.0174	0.0174		0.0174	0.0174	0.0000	249.1318	249.1318	4.7800e-003	4.5700e-003	250.6122
Apartments Low Rise	9.29418e+006	0.0501	0.4283	0.1822	2.7300e-003		0.0346	0.0346		0.0346	0.0346	0.0000	495.9727	495.9727	9.5100e-003	9.0900e-003	498.9200
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
General Light Industry	1.56441e+007	0.0844	0.7669	0.6442	4.6000e-003		0.0583	0.0583		0.0583	0.0583	0.0000	834.8303	834.8303	0.0160	0.0153	839.7913
Regional Shopping Center	129012	7.0000e-004	6.3200e-003	5.3100e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.8846	6.8846	1.3000e-004	1.3000e-004	6.9255
Retirement Community	4.77588e+006	0.0258	0.2201	0.0936	1.4000e-003		0.0178	0.0178		0.0178	0.0178	0.0000	254.8589	254.8589	4.8800e-003	4.6700e-003	256.3734
Single Family Housing	2.78176e+007	0.1500	1.2818	0.5454	8.1800e-003		0.1036	0.1036		0.1036	0.1036	0.0000	1,484.4506	1,484.4506	0.0285	0.0272	1,493.2720
Total		**0.3361**	**2.9184**	**1.5623**	**0.0183**		**0.2322**	**0.2322**		**0.2322**	**0.2322**	**0.0000**	**3,326.1288**	**3,326.1288**	**0.0638**	**0.0610**	**3,345.8943**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.84613e+006	241.3361	8.4000e-004	0.0000	241.3570
Apartments Low Rise	3.67529e+006	480.4530	1.6700e-003	0.0000	480.4947
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.15473e+007	1,509.5215	5.2400e-003	0.0000	1,509.6524
Regional Shopping Center	753600	98.5146	3.4000e-004	0.0000	98.5232
Retirement Community	1.97345e+006	257.9799	9.0000e-004	0.0000	258.0023
Single Family Housing	1.0217e+007	1,335.6207	4.6300e-003	0.0000	1,335.7365
Total		**3,923.4258**	**0.0136**	**0.0000**	**3,923.7662**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.83819e+006	240.2977	8.3000e-004	0.0000	240.3186
Apartments Low Rise	3.65947e+006	478.3858	1.6600e-003	0.0000	478.4273
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.14296e+007	1,494.1356	5.1800e-003	0.0000	1,494.2652

Regional Shopping Center	740244	96.7686	3.4000e-004	0.0000	96.7770
Retirement Community	1.96532e+006	256.9177	8.9000e-004	0.0000	256.9400
Single Family Housing	1.01878e+007	1,331.7974	4.6200e-003	0.0000	1,331.9129
Total		**3,898.3029**	**0.0135**	**0.0000**	**3,898.6411**

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	30.1158	1.1152	22.6354	6.6600e-003		0.1933	0.1933		0.1933	0.1933	0.0000	1,030.5248	1,030.5248	0.0539	0.0182	1,037.3017
Unmitigated	30.1158	1.1152	22.6354	6.6600e-003		0.1933	0.1933		0.1933	0.1933	0.0000	1,030.5248	1,030.5248	0.0539	0.0182	1,037.3017

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	7.9645					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	21.3842					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Hearth	0.1004	0.8583	0.3652	5.4800e-003		0.0694	0.0694		0.0694	0.0694	0.0000	994.0141	994.0141	0.0191	0.0182	999.9210
Landscaping	0.6667	0.2569	22.2702	1.1800e-003		0.1239	0.1239		0.1239	0.1239	0.0000	36.5107	36.5107	0.0348	0.0000	37.3807
Total	**30.1158**	**1.1152**	**22.6354**	**6.6600e-003**		**0.1933**	**0.1933**		**0.1933**	**0.1933**	**0.0000**	**1,030.5248**	**1,030.5248**	**0.0539**	**0.0182**	**1,037.3017**

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	7.9645					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	21.3842					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1004	0.8583	0.3652	5.4800e-003		0.0694	0.0694		0.0694	0.0694	0.0000	994.0141	994.0141	0.0191	0.0182	999.9210
Landscaping	0.6667	0.2569	22.2702	1.1800e-003		0.1239	0.1239		0.1239	0.1239	0.0000	36.5107	36.5107	0.0348	0.0000	37.3807
Total	**30.1158**	**1.1152**	**22.6354**	**6.6600e-003**		**0.1933**	**0.1933**		**0.1933**	**0.1933**	**0.0000**	**1,030.5248**	**1,030.5248**	**0.0539**	**0.0182**	**1,037.3017**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,373.0796	17.0059	0.4015	1,917.8571
Unmitigated	1,373.0796	17.0059	0.4015	1,917.8571

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	84.7654 / 53.439	248.7903	2.7629	0.0652	337.2967
City Park	0 / 93.6504	136.0140	4.7000e-004	0.0000	136.0258
General Light Industry	321.336 / 0	648.9145	10.4726	0.2472	984.4067
Regional Shopping Center	4.44435 / 2.72396	12.9312	0.1449	3.4200e-003	17.5717
Retirement Community	28.9935 / 18.2785	85.0974	0.9450	0.0223	115.3705
Single Family Housing	82.2244 / 51.8371	241.3323	2.6800	0.0633	327.1856
Total		**1,373.0796**	**17.0059**	**0.4015**	**1,917.8571**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	84.7654 / 53.439	248.7903	2.7629	0.0652	337.2967
City Park	0 / 93.6504	136.0140	4.7000e-004	0.0000	136.0258
General Light Industry	321.336 / 0	648.9145	10.4726	0.2472	984.4067
Regional Shopping Center	4.44435 / 2.72396	12.9312	0.1449	3.4200e-003	17.5717

Retirement Community	28.9935 / 18.2785	85.0974	0.9450	0.0223	115.3705
Single Family Housing	82.2244 / 51.8371	241.3323	2.6800	0.0633	327.1856
Total		**1,373.0796**	**17.0059**	**0.4015**	**1,917.8571**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	827.3222	48.8933	0.0000	2,049.6556
Unmitigated	827.3222	48.8933	0.0000	2,049.6556

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	598.46	121.4820	7.1794	0.0000	300.9664
City Park	6.76	1.3722	0.0811	0.0000	3.3996
General Light Industry	1723.05	349.7636	20.6704	0.0000	866.5245

Regional Shopping Center	63	12.7884	0.7558	0.0000	31.6828
Retirement Community	204.7	41.5523	2.4557	0.0000	102.9439
Single Family Housing	1479.69	300.3637	17.7510	0.0000	744.1384
Total		**827.3222**	**48.8934**	**0.0000**	**2,049.6556**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	598.46	121.4820	7.1794	0.0000	300.9664
City Park	6.76	1.3722	0.0811	0.0000	3.3996
General Light Industry	1723.05	349.7636	20.6704	0.0000	866.5245
Regional Shopping Center	63	12.7884	0.7558	0.0000	31.6828
Retirement Community	204.7	41.5523	2.4557	0.0000	102.9439
Single Family Housing	1479.69	300.3637	17.7510	0.0000	744.1384
Total		**827.3222**	**48.8934**	**0.0000**	**2,049.6556**

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

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	0.3555	0.0000	0.0000	0.3555

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	186.15 / 0	-802.3065	0.0000	0.0000	-802.3065
Scrub	691.26 / 0	-9,885.0180	0.0000	0.0000	-9,885.0180
Trees	2.42 / 0	-268.6200	0.0000	0.0000	-268.6200
Wetlands	6.17 / 0	0.0000	0.0000	0.0000	0.0000

Total		**-10,955.9445**	**0.0000**	**0.0000**	**-10,955.9445**

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	15475	10,956.3000	0.0000	0.0000	10,956.3000
Total		**10,956.3000**	**0.0000**	**0.0000**	**10,956.3000**

APPENDIX A

CALEEMOD PRINTOUT: LAND USE PLAN WITH SCHOOLS:

MITIGATED PROJECT

Fanita Ranch Operation
San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	1,000.00	Student	15.00	83,603.37	0
General Light Industry	1,389.56	1000sqft	31.90	1,389,560.00	0
City Park	78.60	Acre	78.60	3,423,816.00	0
Apartments Low Rise	866.00	Dwelling Unit	67.00	866,000.00	2477
Apartments Low Rise	435.00	Dwelling Unit	35.00	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,203.00	Dwelling Unit	241.30	2,165,400.00	3441
Regional Shopping Center	60.00	1000sqft	1.50	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	29.602	**CH4 Intensity (lb/MWhr)**	0.004	**N2O Intensity (lb/MWhr)**	0.001

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Santee CCA in combination with SDG&E for year 2035 (SDG&E Renewabe Portfolie = 60%), overall renewable generation for Santee eectricity 92% (see Sustainable Santee Plan Appendix C)

Land Use - Value changed to reflect the Fanita Ranch Specific Plan.

Vehicle Trips - based on TIA trip length and total daily VMT

Woodstoves - No hearths

Energy Use - All electric homes increased electrical usage an natural gas usage set at zero.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
tblEnergyUse	NT24E	3,172.76	3,490.04
tblEnergyUse	NT24E	3,172.76	3,490.04
tblEnergyUse	NT24E	6,155.97	6,771.57
tblEnergyUse	NT24NG	4,180.00	0.00
tblEnergyUse	NT24NG	4,180.00	0.00
tblEnergyUse	NT24NG	4,180.00	0.00
tblEnergyUse	T24E	260.86	300.04
tblEnergyUse	T24E	260.86	300.04
tblEnergyUse	T24E	331.07	380.75
tblEnergyUse	T24NG	7,045.49	0.00
tblEnergyUse	T24NG	7,045.49	0.00
tblEnergyUse	T24NG	19,206.92	0.00
tblFireplaces	NumberGas	715.55	0.00
tblFireplaces	NumberGas	244.75	0.00
tblFireplaces	NumberGas	661.65	0.00
tblFireplaces	NumberNoFireplace	130.10	0.00
tblFireplaces	NumberNoFireplace	44.50	0.00
tblFireplaces	NumberNoFireplace	120.30	0.00
tblFireplaces	NumberWood	455.35	0.00
tblFireplaces	NumberWood	155.75	0.00
tblFireplaces	NumberWood	421.05	0.00
tblFleetMix	HHD	0.03	0.02

tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
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tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
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tblFleetMix	LDT1	0.04	0.06
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tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
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tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
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tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02

tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
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tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
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tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
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tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
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tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
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tblFleetMix	MH	7.0900e-004	9.1600e-004
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tblFleetMix	MHD	0.02	0.02

tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
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tblFleetMix	OBUS	1.9440e-003	1.0690e-003
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tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
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tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblLandUse	LotAcreage	1.92	15.00
tblLandUse	LotAcreage	27.19	35.00
tblLandUse	LotAcreage	54.13	67.00
tblLandUse	LotAcreage	89.00	30.90
tblLandUse	LotAcreage	390.58	241.30
tblLandUse	LotAcreage	1.38	1.50

tblProjectCharacteristics	CH4IntensityFactor	0.029	0.004
tblProjectCharacteristics	CO2IntensityFactor	720.49	29.602
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.001
tblSequestration	NumberOfNewTrees	0.00	15,475.00
tblVehicleEF	HHD	0.41	0.03
tblVehicleEF	HHD	0.14	0.10
tblVehicleEF	HHD	0.05	0.00
tblVehicleEF	HHD	4,118.17	909.54
tblVehicleEF	HHD	1,512.65	1,140.56
tblVehicleEF	HHD	11.80	0.07
tblVehicleEF	LDA	4.2300e-003	7.6500e-004
tblVehicleEF	LDA	4.3850e-003	0.02
tblVehicleEF	LDA	176.13	192.39
tblVehicleEF	LDA	37.33	38.55
tblVehicleEF	LDT1	3.0420e-003	1.4080e-003
tblVehicleEF	LDT1	3.3850e-003	0.03
tblVehicleEF	LDT1	232.82	236.60
tblVehicleEF	LDT1	50.56	48.20
tblVehicleEF	LDT2	2.3870e-003	1.3510e-003
tblVehicleEF	LDT2	1.8590e-003	0.03
tblVehicleEF	LDT2	258.14	235.35
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tblVehicleEF	LHD1	6.0480e-003	4.4990e-003
tblVehicleEF	LHD1	5.8730e-003	6.3550e-003
tblVehicleEF	LHD1	9.05	8.05
tblVehicleEF	LHD1	611.49	643.53
tblVehicleEF	LHD1	21.13	8.38
tblVehicleEF	LHD2	2.3040e-003	2.2940e-003
tblVehicleEF	LHD2	4.8200e-003	4.9830e-003
tblVehicleEF	LHD2	2.3670e-003	3.6980e-003
tblVehicleEF	LHD2	13.44	12.60

tblVehicleEF	LHD2	665.55	647.55
tblVehicleEF	LHD2	21.27	5.91
tblVehicleEF	MCY	0.50	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	184.90	219.73
tblVehicleEF	MCY	42.31	58.02
tblVehicleEF	MDV	3.3710e-003	1.3140e-003
tblVehicleEF	MDV	3.7410e-003	0.03
tblVehicleEF	MDV	343.76	284.93
tblVehicleEF	MDV	72.70	57.01
tblVehicleEF	MH	6.7790e-003	4.6040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1,182.31	1,315.89
tblVehicleEF	MH	56.45	14.31
tblVehicleEF	MHD	0.02	3.8780e-003
tblVehicleEF	MHD	2.4120e-003	9.2700e-004
tblVehicleEF	MHD	0.03	8.2820e-003
tblVehicleEF	MHD	142.07	63.64
tblVehicleEF	MHD	1,162.62	937.84
tblVehicleEF	MHD	53.67	8.13
tblVehicleEF	OBUS	0.01	8.8730e-003
tblVehicleEF	OBUS	4.2710e-003	3.0810e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	96.61	91.22
tblVehicleEF	OBUS	1,292.92	1,279.50
tblVehicleEF	OBUS	67.21	16.88
tblVehicleEF	SBUS	0.83	0.07
tblVehicleEF	SBUS	3.9020e-003	2.3430e-003
tblVehicleEF	SBUS	0.05	5.2140e-003
tblVehicleEF	SBUS	1,043.37	302.91
tblVehicleEF	SBUS	1,023.41	872.35
tblVehicleEF	SBUS	54.24	4.15

tblVehicleEF	UBUS	1.05	4.89
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	1,747.06	1,847.16
tblVehicleEF	UBUS	139.43	12.31
tblVehicleTrips	CC_TL	7.30	12.25
tblVehicleTrips	CC_TL	7.30	11.30
tblVehicleTrips	CC_TL	7.30	11.90
tblVehicleTrips	CC_TL	7.30	9.60
tblVehicleTrips	CNW_TL	7.30	12.25
tblVehicleTrips	CNW_TL	7.30	11.30
tblVehicleTrips	CNW_TL	7.30	11.90
tblVehicleTrips	CNW_TL	7.30	9.60
tblVehicleTrips	CW_TL	9.50	12.25
tblVehicleTrips	CW_TL	9.50	11.30
tblVehicleTrips	CW_TL	9.50	11.90
tblVehicleTrips	CW_TL	9.50	9.60
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HO_TL	7.50	12.80
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HS_TL	7.30	12.80
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HW_TL	10.80	20.40
tblVehicleTrips	HW_TL	10.80	12.80
tblVehicleTrips	HW_TL	10.80	20.40

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	63.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	7.16	2.92
tblVehicleTrips	ST_TR	22.75	6.25
tblVehicleTrips	ST_TR	1.32	0.03
tblVehicleTrips	ST_TR	49.97	7.74
tblVehicleTrips	ST_TR	2.03	1.38
tblVehicleTrips	ST_TR	9.91	2.92
tblVehicleTrips	SU_TR	6.07	2.92
tblVehicleTrips	SU_TR	16.74	6.25
tblVehicleTrips	SU_TR	0.68	0.03
tblVehicleTrips	SU_TR	25.24	7.74
tblVehicleTrips	SU_TR	1.95	1.38
tblVehicleTrips	SU_TR	8.62	2.92
tblVehicleTrips	WD_TR	6.59	2.93
tblVehicleTrips	WD_TR	1.89	6.25
tblVehicleTrips	WD_TR	1.29	0.50
tblVehicleTrips	WD_TR	6.97	0.03
tblVehicleTrips	WD_TR	42.70	7.75
tblVehicleTrips	WD_TR	2.40	1.38

tblVehicleTrips	WD_TR	9.52	2.93
tblWoodstoves	NumberCatalytic	65.05	0.00
tblWoodstoves	NumberCatalytic	22.25	0.00
tblWoodstoves	NumberCatalytic	60.15	0.00
tblWoodstoves	NumberNoncatalytic	65.05	0.00
tblWoodstoves	NumberNoncatalytic	22.25	0.00
tblWoodstoves	NumberNoncatalytic	60.15	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					
2019	0.4670	4.8365	2.3945	4.1900e-003	1.9303	0.2535	2.1838	1.0567	0.2332	1.2899	0.0000	376.4694	376.4694	0.1151	0.0000	379.3457
2020	0.3066	3.1425	1.6277	2.9200e-003	1.3476	0.1627	1.5103	0.7377	0.1497	0.8874	0.0000	257.0424	257.0424	0.0803	0.0000	259.0499
Maximum	**0.4670**	**4.8365**	**2.3945**	**4.1900e-003**	**1.9303**	**0.2535**	**2.1838**	**1.0567**	**0.2332**	**1.2899**	**0.0000**	**376.4694**	**376.4694**	**0.1151**	**0.0000**	**379.3457**

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					
2019	0.4670	4.8365	2.3945	4.1900e-003	1.9303	0.2535	2.1838	1.0567	0.2332	1.2899	0.0000	376.4690	376.4690	0.1151	0.0000	379.3452
2020	0.3066	3.1425	1.6277	2.9200e-003	1.3476	0.1627	1.5103	0.7377	0.1497	0.8874	0.0000	257.0421	257.0421	0.0803	0.0000	259.0496

Maximum	**0.4670**	**4.8365**	**2.3945**	**4.1900e-003**	**1.9303**	**0.2535**	**2.1838**	**1.0567**	**0.2332**	**1.2899**	**0.0000**	**376.4690**	**376.4690**	**0.1151**	**0.0000**	**379.3452**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**3-11-2019**	**6-10-2019**	1.6439	1.6439
2	**6-11-2019**	**9-10-2019**	1.6438	1.6438
3	**9-11-2019**	**12-10-2019**	1.6263	1.6263
4	**12-11-2019**	**3-10-2020**	1.5408	1.5408
5	**3-11-2020**	**6-10-2020**	1.5314	1.5314
6	**6-11-2020**	**9-10-2020**	0.7324	0.7324
		Highest	1.6439	1.6439

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	29.8457	0.2519	21.8428	1.1600e-003		0.1215	0.1215		0.1215	0.1215	0.0000	35.8130	35.8130	0.0342	0.0000	36.6671
Energy	0.0900	0.8182	0.6873	4.9100e-003		0.0622	0.0622		0.0622	0.0622	0.0000	1,312.3108	1,312.3108	0.0740	0.0306	1,323.2719
Mobile	2.6608	10.9165	39.8815	0.1909	23.6637	0.1013	23.7649	6.3396	0.0943	6.4340	0.0000	16,809.3585	16,809.3585	1.0641	0.0000	16,835.9616
Waste						0.0000	0.0000		0.0000	0.0000	850.3860	0.0000	850.3860	50.2564	0.0000	2,106.7953
Water						0.0000	0.0000		0.0000	0.0000	165.0810	124.3515	289.4326	16.9722	0.4046	834.2950
Total	**32.5964**	**11.9867**	**62.4116**	**0.1970**	**23.6637**	**0.2850**	**23.9486**	**6.3396**	**0.2780**	**6.6177**	**1,015.4670**	**18,281.8337**	**19,297.3007**	**68.4009**	**0.4351**	**21,136.9909**

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	21.6321	0.2004	16.5908	7.5000e-004		0.0906	0.0906		0.0906	0.0906	0.0000	25.0530	25.0530	0.0179	0.0000	25.5000
Energy	0.0876	0.7959	0.6686	4.7800e-003		0.0605	0.0605		0.0605	0.0605	0.0000	1,253.2110	1,253.2110	0.0689	0.0290	1,263.5601
Mobile	2.6608	10.9165	39.8815	0.1909	23.6637	0.1013	23.7649	6.3396	0.0943	6.4340	0.0000	16,809.3585	16,809.3585	1.0641	0.0000	16,835.9616
Waste						0.0000	0.0000		0.0000	0.0000	85.0386	0.0000	85.0386	5.0256	0.0000	210.6795
Water						0.0000	0.0000		0.0000	0.0000	132.0648	99.4812	231.5460	13.5778	0.3236	667.4360
Total	**24.3804**	**11.9128**	**57.1408**	**0.1964**	**23.6637**	**0.2524**	**23.9160**	**6.3396**	**0.2455**	**6.5851**	**217.1034**	**18,187.1037**	**18,404.2071**	**19.7543**	**0.3526**	**19,003.1372**

	ROG	NOx	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	**25.21**	**0.62**	**8.45**	**0.27**	**0.00**	**11.43**	**0.14**	**0.00**	**11.72**	**0.49**	**78.62**	**0.52**	**4.63**	**71.12**	**18.97**	**10.10**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	10,956.3000
Vegetation Land Change	-10,955.9445
Total	**0.3555**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/11/2019	7/24/2020	5	360	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9150	0.0000	1.9150	1.0527	0.0000	1.0527	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4595	4.8307	2.3387	4.0300e-003		0.2534	0.2534		0.2331	0.2331	0.0000	362.1881	362.1881	0.1146	0.0000	365.0529

Total	**0.4595**	**4.8307**	**2.3387**	**4.0300e-003**	**1.9150**	**0.2534**	**2.1684**	**1.0527**	**0.2331**	**1.2858**	**0.0000**	**362.1881**	**362.1881**	**0.1146**	**0.0000**	**365.0529**

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	7.5200e-003	5.7700e-003	0.0558	1.6000e-004	0.0153	1.1000e-004	0.0154	4.0700e-003	1.0000e-004	4.1700e-003	0.0000	14.2813	14.2813	4.6000e-004	0.0000	14.2928
Total	**7.5200e-003**	**5.7700e-003**	**0.0558**	**1.6000e-004**	**0.0153**	**1.1000e-004**	**0.0154**	**4.0700e-003**	**1.0000e-004**	**4.1700e-003**	**0.0000**	**14.2813**	**14.2813**	**4.6000e-004**	**0.0000**	**14.2928**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9150	0.0000	1.9150	1.0527	0.0000	1.0527	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4595	4.8307	2.3387	4.0300e-003		0.2534	0.2534		0.2331	0.2331	0.0000	362.1876	362.1876	0.1146	0.0000	365.0525
Total	**0.4595**	**4.8307**	**2.3387**	**4.0300e-003**	**1.9150**	**0.2534**	**2.1684**	**1.0527**	**0.2331**	**1.2858**	**0.0000**	**362.1876**	**362.1876**	**0.1146**	**0.0000**	**365.0525**

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	7.5200e-003	5.7700e-003	0.0558	1.6000e-004	0.0153	1.1000e-004	0.0154	4.0700e-003	1.0000e-004	4.1700e-003	0.0000	14.2813	14.2813	4.6000e-004	0.0000	14.2928
Total	**7.5200e-003**	**5.7700e-003**	**0.0558**	**1.6000e-004**	**0.0153**	**1.1000e-004**	**0.0154**	**4.0700e-003**	**1.0000e-004**	**4.1700e-003**	**0.0000**	**14.2813**	**14.2813**	**4.6000e-004**	**0.0000**	**14.2928**

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3369	0.0000	1.3369	0.7349	0.0000	0.7349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3017	3.1389	1.5920	2.8100e-003		0.1626	0.1626		0.1496	0.1496	0.0000	247.3870	247.3870	0.0800	0.0000	249.3873
Total	**0.3017**	**3.1389**	**1.5920**	**2.8100e-003**	**1.3369**	**0.1626**	**1.4995**	**0.7349**	**0.1496**	**0.8845**	**0.0000**	**247.3870**	**247.3870**	**0.0800**	**0.0000**	**249.3873**

Unmitigated Construction Off-Site

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

Worker	4.9100e-003	3.6400e-003	0.0356	1.1000e-004	0.0107	8.0000e-005	0.0108	2.8400e-003	7.0000e-005	2.9100e-003	0.0000	9.6553	9.6553	2.9000e-004	0.0000	9.6626
Total	**4.9100e-003**	**3.6400e-003**	**0.0356**	**1.1000e-004**	**0.0107**	**8.0000e-005**	**0.0108**	**2.8400e-003**	**7.0000e-005**	**2.9100e-003**	**0.0000**	**9.6553**	**9.6553**	**2.9000e-004**	**0.0000**	**9.6626**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3369	0.0000	1.3369	0.7349	0.0000	0.7349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3017	3.1389	1.5920	2.8100e-003		0.1626	0.1626		0.1496	0.1496	0.0000	247.3867	247.3867	0.0800	0.0000	249.3870
Total	**0.3017**	**3.1389**	**1.5920**	**2.8100e-003**	**1.3369**	**0.1626**	**1.4995**	**0.7349**	**0.1496**	**0.8845**	**0.0000**	**247.3867**	**247.3867**	**0.0800**	**0.0000**	**249.3870**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9100e-003	3.6400e-003	0.0356	1.1000e-004	0.0107	8.0000e-005	0.0108	2.8400e-003	7.0000e-005	2.9100e-003	0.0000	9.6553	9.6553	2.9000e-004	0.0000	9.6626
Total	**4.9100e-003**	**3.6400e-003**	**0.0356**	**1.1000e-004**	**0.0107**	**8.0000e-005**	**0.0108**	**2.8400e-003**	**7.0000e-005**	**2.9100e-003**	**0.0000**	**9.6553**	**9.6553**	**2.9000e-004**	**0.0000**	**9.6626**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.6608	10.9165	39.8815	0.1909	23.6637	0.1013	23.7649	6.3396	0.0943	6.4340	0.0000	16,809.3585	16,809.3585	1.0641	0.0000	16,835.9616
Unmitigated	2.6608	10.9165	39.8815	0.1909	23.6637	0.1013	23.7649	6.3396	0.0943	6.4340	0.0000	16,809.3585	16,809.3585	1.0641	0.0000	16,835.9616

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,537.38	2,528.72	2528.72	18,823,196	18,823,196
Apartments Low Rise	1,274.55	1,270.20	1270.20	9,455,070	9,455,070
City Park	491.25	491.25	491.25	2,190,484	2,190,484
Elementary School	500.00	0.00	0.00	1,469,000	1,469,000
General Light Industry	41.69	41.69	41.69	180,571	180,571
Regional Shopping Center	465.00	464.40	464.40	1,624,297	1,624,297
Retirement Community	614.10	614.10	614.10	2,861,215	2,861,215
Single Family Housing	3,524.79	3,512.76	3512.76	26,148,158	26,148,158
Total	9,448.76	8,923.12	8,923.12	62,751,989	62,751,989

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
City Park	12.25	12.25	12.25	33.00	48.00	19.00	100	0	0
Elementary School	11.30	11.30	11.30	65.00	30.00	5.00	100	0	0
General Light Industry	11.90	11.90	11.90	59.00	28.00	13.00	100	0	0
Regional Shopping Center	9.60	9.60	9.60	16.30	64.70	19.00	100	0	0
Retirement Community	12.80	12.80	12.80	41.60	18.80	39.60	100	0	0

Single Family Housing	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
City Park	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Elementary School	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
General Light Industry	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Regional Shopping Center	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Retirement Community	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Single Family Housing	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916

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	386.7860	386.7860	0.0523	0.0131	391.9864
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	421.5596	421.5596	0.0570	0.0142	427.2275
NaturalGas Mitigated	0.0876	0.7959	0.6686	4.7800e-003		0.0605	0.0605		0.0605	0.0605	0.0000	866.4250	866.4250	0.0166	0.0159	871.5737
NaturalGas Unmitigated	0.0900	0.8182	0.6873	4.9100e-003		0.0622	0.0622		0.0622	0.0622	0.0000	890.7511	890.7511	0.0171	0.0163	896.0444

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 Low Rise	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
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
Elementary School	494932	2.6700e-003	0.0243	0.0204	1.5000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	26.4115	26.4115	5.1000e-004	4.8000e-004	26.5684
General Light Industry	1.60633e+007	0.0866	0.7874	0.6614	4.7200e-003		0.0598	0.0598		0.0598	0.0598	0.0000	857.1996	857.1996	0.0164	0.0157	862.2935
Regional Shopping Center	133800	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1401	7.1401	1.4000e-004	1.3000e-004	7.1825
Retirement Community	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
Single Family Housing	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		**0.0900**	**0.8182**	**0.6873**	**4.9100e-003**		**0.0622**	**0.0622**		**0.0622**	**0.0622**	**0.0000**	**890.7511**	**890.7511**	**0.0171**	**0.0163**	**896.0444**

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 Low Rise	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
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
Elementary School	463096	2.5000e-003	0.0227	0.0191	1.4000e-004		1.7300e-003	1.7300e-003		1.7300e-003	1.7300e-003	0.0000	24.7126	24.7126	4.7000e-004	4.5000e-004	24.8594
General Light Industry	1.56441e+007	0.0844	0.7669	0.6442	4.6000e-003		0.0583	0.0583		0.0583	0.0583	0.0000	834.8279	834.8279	0.0160	0.0153	839.7888

Regional Shopping Center	129012	7.0000e-004	6.3200e-003	5.3100e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.8846	6.8846	1.3000e-004	1.3000e-004	6.9255
Retirement Community	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
Single Family Housing	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		**0.0876**	**0.7959**	**0.6686**	**4.7800e-003**		**0.0605**	**0.0605**		**0.0605**	**0.0605**	**0.0000**	**866.4250**	**866.4250**	**0.0166**	**0.0159**	**871.5737**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	2.00119e+006	26.8705	3.6300e-003	9.1000e-004	27.2318
Apartments Low Rise	3.98398e+006	53.4939	7.2300e-003	1.8100e-003	54.2131
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	438082	5.8822	7.9000e-004	2.0000e-004	5.9613
General Light Industry	1.15472e+007	155.0476	0.0210	5.2400e-003	157.1323
Regional Shopping Center	753600	10.1188	1.3700e-003	3.4000e-004	10.2548
Retirement Community	2.13208e+006	28.6279	3.8700e-003	9.7000e-004	29.0128
Single Family Housing	1.05397e+007	141.5188	0.0191	4.7800e-003	143.4215
Total		**421.5596**	**0.0570**	**0.0143**	**427.2275**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e

Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.85645e+006	24.9270	3.3700e-003	8.4000e-004	25.2622
Apartments Low Rise	3.69583e+006	49.6249	6.7100e-003	1.6800e-003	50.2921
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	376098	5.0500	6.8000e-004	1.7000e-004	5.1179
General Light Industry	1.04464e+007	140.2668	0.0190	4.7400e-003	142.1527
Regional Shopping Center	646944	8.6867	1.1700e-003	2.9000e-004	8.8035
Retirement Community	1.96279e+006	26.3548	3.5600e-003	8.9000e-004	26.7092
Single Family Housing	9.82152e+006	131.8759	0.0178	4.4500e-003	133.6490
Total		**386.7860**	**0.0523**	**0.0131**	**391.9864**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

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	21.6321	0.2004	16.5908	7.5000e-004		0.0906	0.0906		0.0906	0.0906	0.0000	25.0530	25.0530	0.0179	0.0000	25.5000
Unmitigated	29.8457	0.2519	21.8428	1.1600e-003		0.1215	0.1215		0.1215	0.1215	0.0000	35.8130	35.8130	0.0342	0.0000	36.6671

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	7.8952					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	21.2959					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	0.6545	0.2519	21.8428	1.1600e-003		0.1215	0.1215		0.1215	0.1215	0.0000	35.8130	35.8130	0.0342	0.0000	36.6671
Total	**29.8457**	**0.2519**	**21.8428**	**1.1600e-003**		**0.1215**	**0.1215**		**0.1215**	**0.1215**	**0.0000**	**35.8130**	**35.8130**	**0.0342**	**0.0000**	**36.6671**

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	1.5790					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	19.7061					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	0.3469	0.2004	16.5908	7.5000e-004		0.0906	0.0906		0.0906	0.0906	0.0000	25.0530	25.0530	0.0179	0.0000	25.5000
Total	**21.6321**	**0.2004**	**16.5908**	**7.5000e-004**		**0.0906**	**0.0906**		**0.0906**	**0.0906**	**0.0000**	**25.0530**	**25.0530**	**0.0179**	**0.0000**	**25.5000**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	231.5460	13.5778	0.3236	667.4360
Unmitigated	289.4326	16.9722	0.4046	834.2950

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	84.7654 / 53.439	49.6841	2.7652	0.0660	138.4777
City Park	0 / 93.6504	13.9705	1.8900e-003	4.7000e-004	14.1583
Elementary School	2.42424 / 6.23376	2.1229	0.0792	1.9100e-003	4.6718
General Light Industry	321.336 / 0	158.1261	10.4783	0.2491	494.3262

Regional Shopping Center	4.44435 / 2.72396	2.5934	0.1450	3.4600e-003	7.2488
Retirement Community	28.9935 / 18.2785	16.9942	0.9458	0.0226	47.3656
Single Family Housing	78.3803 / 49.4137	45.9415	2.5569	0.0610	128.0466
Total		**289.4326**	**16.9722**	**0.4046**	**834.2949**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	67.8123 / 42.7512	39.7472	2.2121	0.0528	110.7822
City Park	0 / 74.9203	11.1764	1.5100e-003	3.8000e-004	11.3266
Elementary School	1.93939 / 4.98701	1.6983	0.0633	1.5300e-003	3.7374
General Light Industry	257.069 / 0	126.5009	8.3827	0.1993	395.4610
Regional Shopping Center	3.55548 / 2.17917	2.0747	0.1160	2.7700e-003	5.7990
Retirement Community	23.1948 / 14.6228	13.5953	0.7567	0.0181	37.8924
Single Family Housing	62.7042 / 39.5309	36.7532	2.0455	0.0488	102.4373
Total		**231.5460**	**13.5778**	**0.3237**	**667.4360**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	85.0386	5.0256	0.0000	210.6795
Unmitigated	850.3860	50.2564	0.0000	2,106.7953

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	598.46	121.4820	7.1794	0.0000	300.9664
City Park	6.76	1.3722	0.0811	0.0000	3.3996
Elementary School	182.5	37.0459	2.1894	0.0000	91.7795
General Light Industry	1723.05	349.7636	20.6704	0.0000	866.5245
Regional Shopping Center	63	12.7884	0.7558	0.0000	31.6828
Retirement Community	204.7	41.5523	2.4557	0.0000	102.9439
Single Family Housing	1410.81	286.3817	16.9247	0.0000	709.4985
Total		**850.3860**	**50.2564**	**0.0000**	**2,106.7953**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	59.846	12.1482	0.7179	0.0000	30.0966
City Park	0.676	0.1372	8.1100e-003	0.0000	0.3400
Elementary School	18.25	3.7046	0.2189	0.0000	9.1780
General Light Industry	172.305	34.9764	2.0670	0.0000	86.6525
Regional Shopping Center	6.3	1.2788	0.0756	0.0000	3.1683
Retirement Community	20.47	4.1552	0.2456	0.0000	10.2944
Single Family Housing	141.081	28.6382	1.6925	0.0000	70.9499
Total		**85.0386**	**5.0256**	**0.0000**	**210.6795**

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

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	0.3555	0.0000	0.0000	0.3555

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	186.15 / 0	-802.3065	0.0000	0.0000	-802.3065
Scrub	691.26 / 0	-9,885.0180	0.0000	0.0000	-9,885.018
Trees	2.42 / 0	-268.6200	0.0000	0.0000	-268.6200
Wetlands	6.17 / 0	0.0000	0.0000	0.0000	0.0000
Total		**-10,955.9445**	**0.0000**	**0.0000**	**-10,955.9445**

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e

		MT			
Miscellaneous	15475	10,956.3000	0.0000	0.0000	10,956.3000
Total		**10,956.3000**	**0.0000**	**0.0000**	**10,956.3000**

APPENDIX A

CALEEMOD PRINTOUT: LAND USE PLAN WITHOUT SCHOOLS:

MITIGATED PROJECT

Fanita Ranch Operation - San Diego County APCD Air District, Annual

Fanita Ranch Operation

San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1,389.56	1000sqft	31.90	1,389,564.00	0
City Park	78.60	Acre	78.60	3,423,816.00	0
Apartments Low Rise	866.00	Dwelling Unit	67.00	866,000.00	2477
Apartments Low Rise	435.00	Dwelling Unit	35.00	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,262.00	Dwelling Unit	256.30	2,271,600.00	3609
Regional Shopping Center	60.00	1000sqft	1.50	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	29.6	**CH4 Intensity (lb/MWhr)**	0.004	**N2O Intensity (lb/MWhr)**	0.001

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Santee CCA and SDG&E emission factors for year 2035

Land Use - Value changed to reflect the Fanita Ranch Specific Plan

Vehicle Trips - based on TIA trip length and total daily VMT

Woodstoves - all electric homes

Energy Use - All Electric homes

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
tblEnergyUse	NT24E	3,172.76	3,490.04
tblEnergyUse	NT24E	3,172.76	3,490.04
tblEnergyUse	NT24E	6,155.97	6,771.54
tblEnergyUse	NT24NG	4,180.00	0.00
tblEnergyUse	NT24NG	4,180.00	0.00
tblEnergyUse	NT24NG	4,180.00	0.00
tblEnergyUse	T24E	260.86	300.04
tblEnergyUse	T24E	260.86	300.04
tblEnergyUse	T24E	331.07	380.75
tblEnergyUse	T24NG	7,045.49	0.00
tblEnergyUse	T24NG	7,045.49	0.00
tblEnergyUse	T24NG	19,206.92	0.00
tblFireplaces	NumberGas	715.55	0.00
tblFireplaces	NumberGas	244.75	0.00
tblFireplaces	NumberGas	694.10	0.00
tblFireplaces	NumberNoFireplace	130.10	0.00
tblFireplaces	NumberNoFireplace	44.50	0.00
tblFireplaces	NumberNoFireplace	126.20	0.00
tblFireplaces	NumberWood	455.35	0.00
tblFireplaces	NumberWood	155.75	0.00
tblFireplaces	NumberWood	441.70	0.00
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02

tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003

tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003

tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblLandUse	LandUseSquareFeet	1,389,560.00	1,389,564.00
tblLandUse	LotAcreage	54.13	67.00
tblLandUse	LotAcreage	27.19	35.00
tblLandUse	LotAcreage	89.00	30.90
tblLandUse	LotAcreage	409.74	256.30
tblLandUse	LotAcreage	1.38	1.50
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.004
tblProjectCharacteristics	CO2IntensityFactor	720.49	29.6
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.001
tblSequestration	NumberOfNewTrees	0.00	15,475.00
tblVehicleEF	HHD	0.41	0.03
tblVehicleEF	HHD	0.14	0.10
tblVehicleEF	HHD	0.05	0.00
tblVehicleEF	HHD	4,118.17	909.54
tblVehicleEF	HHD	1,512.65	1,140.56
tblVehicleEF	HHD	11.80	0.07
tblVehicleEF	LDA	4.2300e-003	7.6500e-004
tblVehicleEF	LDA	4.3850e-003	0.02
tblVehicleEF	LDA	176.13	192.39
tblVehicleEF	LDA	37.33	38.55

tblVehicleEF	LDT1	3.0420e-003	1.4080e-003
tblVehicleEF	LDT1	3.3850e-003	0.03
tblVehicleEF	LDT1	232.82	236.60
tblVehicleEF	LDT1	50.56	48.20
tblVehicleEF	LDT2	2.3870e-003	1.3510e-003
tblVehicleEF	LDT2	1.8590e-003	0.03
tblVehicleEF	LDT2	258.14	235.35
tblVehicleEF	LDT2	54.97	47.87
tblVehicleEF	LHD1	2.9300e-003	3.4250e-003
tblVehicleEF	LHD1	6.0480e-003	4.4990e-003
tblVehicleEF	LHD1	5.8730e-003	6.3550e-003
tblVehicleEF	LHD1	9.05	8.05
tblVehicleEF	LHD1	611.49	643.53
tblVehicleEF	LHD1	21.13	8.38
tblVehicleEF	LHD2	2.3040e-003	2.2940e-003
tblVehicleEF	LHD2	4.8200e-003	4.9830e-003
tblVehicleEF	LHD2	2.3670e-003	3.6980e-003
tblVehicleEF	LHD2	13.44	12.60
tblVehicleEF	LHD2	665.55	647.55
tblVehicleEF	LHD2	21.27	5.91
tblVehicleEF	MCY	0.50	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	184.90	219.73
tblVehicleEF	MCY	42.31	58.02
tblVehicleEF	MDV	3.3710e-003	1.3140e-003
tblVehicleEF	MDV	3.7410e-003	0.03
tblVehicleEF	MDV	343.76	284.93
tblVehicleEF	MDV	72.70	57.01
tblVehicleEF	MH	6.7790e-003	4.6040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1,182.31	1,315.89
tblVehicleEF	MH	56.45	14.31

tblVehicleEF	MHD	0.02	3.8780e-003
tblVehicleEF	MHD	2.4120e-003	9.2700e-004
tblVehicleEF	MHD	0.03	8.2820e-003
tblVehicleEF	MHD	142.07	63.64
tblVehicleEF	MHD	1,162.62	937.84
tblVehicleEF	MHD	53.67	8.13
tblVehicleEF	OBUS	0.01	8.8730e-003
tblVehicleEF	OBUS	4.2710e-003	3.0810e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	96.61	91.22
tblVehicleEF	OBUS	1,292.92	1,279.50
tblVehicleEF	OBUS	67.21	16.88
tblVehicleEF	SBUS	0.83	0.07
tblVehicleEF	SBUS	3.9020e-003	2.3430e-003
tblVehicleEF	SBUS	0.05	5.2140e-003
tblVehicleEF	SBUS	1,043.37	302.91
tblVehicleEF	SBUS	1,023.41	872.35
tblVehicleEF	SBUS	54.24	4.15
tblVehicleEF	UBUS	1.05	4.89
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	1,747.06	1,847.16
tblVehicleEF	UBUS	139.43	12.31
tblVehicleTrips	CC_TL	7.30	12.25
tblVehicleTrips	CC_TL	7.30	11.90
tblVehicleTrips	CC_TL	7.30	9.60
tblVehicleTrips	CNW_TL	7.30	12.25
tblVehicleTrips	CNW_TL	7.30	11.90
tblVehicleTrips	CNW_TL	7.30	9.60
tblVehicleTrips	CW_TL	9.50	12.25
tblVehicleTrips	CW_TL	9.50	11.90
tblVehicleTrips	CW_TL	9.50	9.60
tblVehicleTrips	DV_TP	11.00	0.00

tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HO_TL	7.50	12.80
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HS_TL	7.30	12.80
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HW_TL	10.80	20.40
tblVehicleTrips	HW_TL	10.80	12.80
tblVehicleTrips	HW_TL	10.80	20.40
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	7.16	3.07
tblVehicleTrips	ST_TR	22.75	6.56
tblVehicleTrips	ST_TR	1.32	0.03
tblVehicleTrips	ST_TR	49.97	8.13
tblVehicleTrips	ST_TR	2.03	1.44
tblVehicleTrips	ST_TR	9.91	3.07

tblVehicleTrips	SU_TR	6.07	3.07
tblVehicleTrips	SU_TR	16.74	6.56
tblVehicleTrips	SU_TR	0.68	0.03
tblVehicleTrips	SU_TR	25.24	8.13
tblVehicleTrips	SU_TR	1.95	1.44
tblVehicleTrips	SU_TR	8.62	3.07
tblVehicleTrips	WD_TR	6.59	3.08
tblVehicleTrips	WD_TR	1.89	6.57
tblVehicleTrips	WD_TR	6.97	0.03
tblVehicleTrips	WD_TR	42.70	8.14
tblVehicleTrips	WD_TR	2.40	1.45
tblVehicleTrips	WD_TR	9.52	3.08
tblWoodstoves	NumberCatalytic	65.05	0.00
tblWoodstoves	NumberCatalytic	22.25	0.00
tblWoodstoves	NumberCatalytic	63.10	0.00
tblWoodstoves	NumberNoncatalytic	65.05	0.00
tblWoodstoves	NumberNoncatalytic	22.25	0.00
tblWoodstoves	NumberNoncatalytic	63.10	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					
2019	0.4670	4.8365	2.3945	4.1900e-003	1.9303	0.2535	2.1838	1.0567	0.2332	1.2899	0.0000	376.4694	376.4694	0.1151	0.0000	379.3457
2020	0.3066	3.1425	1.6277	2.9200e-003	1.3476	0.1627	1.5103	0.7377	0.1497	0.8874	0.0000	257.0424	257.0424	0.0803	0.0000	259.0499

Maximum	**0.4670**	**4.8365**	**2.3945**	**4.1900e-003**	**1.9303**	**0.2535**	**2.1838**	**1.0567**	**0.2332**	**1.2899**	**0.0000**	**376.4694**	**376.4694**	**0.1151**	**0.0000**	**379.3457**

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					
2019	0.4670	4.8365	2.3945	4.1900e-003	1.9303	0.2535	2.1838	1.0567	0.2332	1.2899	0.0000	376.4690	376.4690	0.1151	0.0000	379.3452
2020	0.3066	3.1425	1.6277	2.9200e-003	1.3476	0.1627	1.5103	0.7377	0.1497	0.8874	0.0000	257.0421	257.0421	0.0803	0.0000	259.0496
Maximum	**0.4670**	**4.8365**	**2.3945**	**4.1900e-003**	**1.9303**	**0.2535**	**2.1838**	**1.0567**	**0.2332**	**1.2899**	**0.0000**	**376.4690**	**376.4690**	**0.1151**	**0.0000**	**379.3452**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**3-11-2019**	**6-10-2019**	1.6439	1.6439
2	**6-11-2019**	**9-10-2019**	1.6438	1.6438
3	**9-11-2019**	**12-10-2019**	1.6263	1.6263
4	**12-11-2019**	**3-10-2020**	1.5408	1.5408
5	**3-11-2020**	**6-10-2020**	1.5314	1.5314
6	**6-11-2020**	**9-10-2020**	0.7324	0.7324
		Highest	1.6439	1.6439

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	30.0154	0.2569	22.2702	1.1800e-003		0.1239	0.1239		0.1239	0.1239	0.0000	36.5107	36.5107	0.0348	0.0000	37.3807
Energy	0.0873	0.7940	0.6669	4.7600e-003		0.0603	0.0603		0.0603	0.0603	0.0000	1,286.9316	1,286.9316	0.0737	0.0301	1,297.7500
Mobile	2.7737	11.3743	41.7179	0.1999	24.7951	0.1060	24.9011	6.6427	0.0988	6.7415	0.0000	17,609.3146	17,609.3146	1.1134	0.0000	17,637.1506
Waste						0.0000	0.0000		0.0000	0.0000	827.3222	0.0000	827.3222	48.8933	0.0000	2,049.6556
Water						0.0000	0.0000		0.0000	0.0000	165.5315	124.0230	289.5545	17.0184	0.4056	835.8947
Total	**32.8764**	**12.4252**	**64.6551**	**0.2059**	**24.7951**	**0.2902**	**25.0853**	**6.6427**	**0.2830**	**6.9257**	**992.8536**	**19,056.7799**	**20,049.6335**	**67.1337**	**0.4358**	**21,857.8317**

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	21.7342	0.2044	16.9172	7.7000e-004		0.0924	0.0924		0.0924	0.0924	0.0000	25.5441	25.5441	0.0182	0.0000	25.9996
Energy	0.0851	0.7732	0.6495	4.6400e-003		0.0588	0.0588		0.0588	0.0588	0.0000	1,229.8923	1,229.8923	0.0686	0.0286	1,240.1136
Mobile	2.7737	11.3743	41.7179	0.1999	24.7951	0.1060	24.9011	6.6427	0.0988	6.7415	0.0000	17,609.3146	17,609.3146	1.1134	0.0000	17,637.1506
Waste						0.0000	0.0000		0.0000	0.0000	82.7322	0.0000	82.7322	4.8893	0.0000	204.9656
Water						0.0000	0.0000		0.0000	0.0000	132.4252	99.2184	231.6436	13.6147	0.3245	668.7158
Total	**24.5929**	**12.3519**	**59.2846**	**0.2053**	**24.7951**	**0.2572**	**25.0523**	**6.6427**	**0.2499**	**6.8927**	**215.1574**	**18,963.9694**	**19,179.1268**	**19.7043**	**0.3531**	**19,776.9451**

	ROG	NOx	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	**25.20**	**0.59**	**8.31**	**0.26**	**0.00**	**11.39**	**0.13**	**0.00**	**11.68**	**0.48**	**78.33**	**0.49**	**4.34**	**70.65**	**18.98**	**9.52**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	10,956.3000
Vegetation Land Change	-10,955.9445
Total	**0.3555**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/11/2019	7/24/2020	5	360	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9150	0.0000	1.9150	1.0527	0.0000	1.0527	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4595	4.8307	2.3387	4.0300e-003		0.2534	0.2534		0.2331	0.2331	0.0000	362.1881	362.1881	0.1146	0.0000	365.0529
Total	**0.4595**	**4.8307**	**2.3387**	**4.0300e-003**	**1.9150**	**0.2534**	**2.1684**	**1.0527**	**0.2331**	**1.2858**	**0.0000**	**362.1881**	**362.1881**	**0.1146**	**0.0000**	**365.0529**

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	7.5200e-003	5.7700e-003	0.0558	1.6000e-004	0.0153	1.1000e-004	0.0154	4.0700e-003	1.0000e-004	4.1700e-003	0.0000	14.2813	14.2813	4.6000e-004	0.0000	14.2928
Total	**7.5200e-003**	**5.7700e-003**	**0.0558**	**1.6000e-004**	**0.0153**	**1.1000e-004**	**0.0154**	**4.0700e-003**	**1.0000e-004**	**4.1700e-003**	**0.0000**	**14.2813**	**14.2813**	**4.6000e-004**	**0.0000**	**14.2928**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9150	0.0000	1.9150	1.0527	0.0000	1.0527	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4595	4.8307	2.3387	4.0300e-003		0.2534	0.2534		0.2331	0.2331	0.0000	362.1876	362.1876	0.1146	0.0000	365.0525
Total	**0.4595**	**4.8307**	**2.3387**	**4.0300e-003**	**1.9150**	**0.2534**	**2.1684**	**1.0527**	**0.2331**	**1.2858**	**0.0000**	**362.1876**	**362.1876**	**0.1146**	**0.0000**	**365.0525**

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	7.5200e-003	5.7700e-003	0.0558	1.6000e-004	0.0153	1.1000e-004	0.0154	4.0700e-003	1.0000e-004	4.1700e-003	0.0000	14.2813	14.2813	4.6000e-004	0.0000	14.2928
Total	**7.5200e-003**	**5.7700e-003**	**0.0558**	**1.6000e-004**	**0.0153**	**1.1000e-004**	**0.0154**	**4.0700e-003**	**1.0000e-004**	**4.1700e-003**	**0.0000**	**14.2813**	**14.2813**	**4.6000e-004**	**0.0000**	**14.2928**

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3369	0.0000	1.3369	0.7349	0.0000	0.7349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3017	3.1389	1.5920	2.8100e-003		0.1626	0.1626		0.1496	0.1496	0.0000	247.3870	247.3870	0.0800	0.0000	249.3873

Total	**0.3017**	**3.1389**	**1.5920**	**2.8100e-003**	**1.3369**	**0.1626**	**1.4995**	**0.7349**	**0.1496**	**0.8845**	**0.0000**	**247.3870**	**247.3870**	**0.0800**	**0.0000**	**249.3873**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9100e-003	3.6400e-003	0.0356	1.1000e-004	0.0107	8.0000e-005	0.0108	2.8400e-003	7.0000e-005	2.9100e-003	0.0000	9.6553	9.6553	2.9000e-004	0.0000	9.6626
Total	**4.9100e-003**	**3.6400e-003**	**0.0356**	**1.1000e-004**	**0.0107**	**8.0000e-005**	**0.0108**	**2.8400e-003**	**7.0000e-005**	**2.9100e-003**	**0.0000**	**9.6553**	**9.6553**	**2.9000e-004**	**0.0000**	**9.6626**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3369	0.0000	1.3369	0.7349	0.0000	0.7349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3017	3.1389	1.5920	2.8100e-003		0.1626	0.1626		0.1496	0.1496	0.0000	247.3867	247.3867	0.0800	0.0000	249.3870
Total	**0.3017**	**3.1389**	**1.5920**	**2.8100e-003**	**1.3369**	**0.1626**	**1.4995**	**0.7349**	**0.1496**	**0.8845**	**0.0000**	**247.3867**	**247.3867**	**0.0800**	**0.0000**	**249.3870**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9100e-003	3.6400e-003	0.0356	1.1000e-004	0.0107	8.0000e-005	0.0108	2.8400e-003	7.0000e-005	2.9100e-003	0.0000	9.6553	9.6553	2.9000e-004	0.0000	9.6626
Total	**4.9100e-003**	**3.6400e-003**	**0.0356**	**1.1000e-004**	**0.0107**	**8.0000e-005**	**0.0108**	**2.8400e-003**	**7.0000e-005**	**2.9100e-003**	**0.0000**	**9.6553**	**9.6553**	**2.9000e-004**	**0.0000**	**9.6626**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.7737	11.3743	41.7179	0.1999	24.7951	0.1060	24.9011	6.6427	0.0988	6.7415	0.0000	17,609.3146	17,609.3146	1.1134	0.0000	17,637.1506
Unmitigated	2.7737	11.3743	41.7179	0.1999	24.7951	0.1060	24.9011	6.6427	0.0988	6.7415	0.0000	17,609.3146	17,609.3146	1.1134	0.0000	17,637.1506

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,667.28	2,658.62	2658.62	19,787,781	19,787,781
Apartments Low Rise	1,339.80	1,335.45	1335.45	9,939,590	9,939,590
City Park	516.40	515.62	515.62	2,301,635	2,301,635
General Light Industry	41.69	41.69	41.69	180,571	180,571
Regional Shopping Center	488.40	487.80	487.80	1,706,066	1,706,066

Retirement Community	645.25	640.80	640.80	3,000,425	3,000,425
Single Family Housing	3,886.96	3,874.34	3874.34	28,836,236	28,836,236
Total	9,585.78	9,554.31	9,554.31	65,752,303	65,752,303

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
City Park	12.25	12.25	12.25	33.00	48.00	19.00	100	0	0
General Light Industry	11.90	11.90	11.90	59.00	28.00	13.00	100	0	0
Regional Shopping Center	9.60	9.60	9.60	16.30	64.70	19.00	100	0	0
Retirement Community	12.80	12.80	12.80	41.60	18.80	39.60	100	0	0
Single Family Housing	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
City Park	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
General Light Industry	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Regional Shopping Center	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Retirement Community	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Single Family Housing	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916

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	388.1775	388.1775	0.0525	0.0131	393.3969
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	422.5894	422.5894	0.0571	0.0143	428.2716
NaturalGas Mitigated	0.0851	0.7732	0.6495	4.6400e-003		0.0588	0.0588		0.0588	0.0588	0.0000	841.7148	841.7148	0.0161	0.0154	846.7167
NaturalGas Unmitigated	0.0873	0.7940	0.6669	4.7600e-003		0.0603	0.0603		0.0603	0.0603	0.0000	864.3421	864.3421	0.0166	0.0159	869.4785

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 Low Rise	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
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
General Light Industry	1.60634e+007	0.0866	0.7874	0.6614	4.7200e-003		0.0598	0.0598		0.0598	0.0598	0.0000	857.2021	857.2021	0.0164	0.0157	862.2960
Regional Shopping Center	133800	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1401	7.1401	1.4000e-004	1.3000e-004	7.1825
Retirement Community	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
Single Family Housing	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		**0.0873**	**0.7940**	**0.6669**	**4.7600e-003**		**0.0603**	**0.0603**		**0.0603**	**0.0603**	**0.0000**	**864.3421**	**864.3421**	**0.0166**	**0.0159**	**869.4785**

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 Low Rise	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
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
General Light Industry	1.56441e+007	0.0844	0.7669	0.6442	4.6000e-003		0.0583	0.0583		0.0583	0.0583	0.0000	834.8303	834.8303	0.0160	0.0153	839.7913
Regional Shopping Center	129012	7.0000e-004	6.3200e-003	5.3100e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.8846	6.8846	1.3000e-004	1.3000e-004	6.9255
Retirement Community	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
Single Family Housing	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		**0.0851**	**0.7732**	**0.6495**	**4.6400e-003**		**0.0588**	**0.0588**		**0.0588**	**0.0588**	**0.0000**	**841.7148**	**841.7148**	**0.0161**	**0.0154**	**846.7167**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	2.00119e+006	26.8687	3.6300e-003	9.1000e-004	27.2299
Apartments Low Rise	3.98398e+006	53.4903	7.2300e-003	1.8100e-003	54.2095
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.15473e+007	155.0376	0.0210	5.2400e-003	157.1222
Regional Shopping Center	753600	10.1181	1.3700e-003	3.4000e-004	10.2541
Retirement Community	2.13208e+006	28.6260	3.8700e-003	9.7000e-004	29.0109
Single Family Housing	1.10565e+007	148.4489	0.0201	5.0200e-003	150.4449

Total		**422.5894**	**0.0571**	**0.0143**	**428.2716**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.85645e+006	24.9254	3.3700e-003	8.4000e-004	25.2605
Apartments Low Rise	3.69583e+006	49.6215	6.7100e-003	1.6800e-003	50.2887
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.04465e+007	140.2577	0.0190	4.7400e-003	142.1436
Regional Shopping Center	646944	8.6861	1.1700e-003	2.9000e-004	8.8029
Retirement Community	1.96279e+006	26.3531	3.5600e-003	8.9000e-004	26.7074
Single Family Housing	1.03032e+007	138.3337	0.0187	4.6700e-003	140.1938
Total		**388.1775**	**0.0525**	**0.0131**	**393.3969**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

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	21.7342	0.2044	16.9172	7.7000e-004		0.0924	0.0924		0.0924	0.0924	0.0000	25.5441	25.5441	0.0182	0.0000	25.9996
Unmitigated	30.0154	0.2569	22.2702	1.1800e-003		0.1239	0.1239		0.1239	0.1239	0.0000	36.5107	36.5107	0.0348	0.0000	37.3807

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	7.9645					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	21.3842					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	0.6667	0.2569	22.2702	1.1800e-003		0.1239	0.1239		0.1239	0.1239	0.0000	36.5107	36.5107	0.0348	0.0000	37.3807
Total	**30.0154**	**0.2569**	**22.2702**	**1.1800e-003**		**0.1239**	**0.1239**		**0.1239**	**0.1239**	**0.0000**	**36.5107**	**36.5107**	**0.0348**	**0.0000**	**37.3807**

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	1.5929					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	19.7878					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	0.3535	0.2044	16.9172	7.7000e-004		0.0924	0.0924		0.0924	0.0924	0.0000	25.5441	25.5441	0.0182	0.0000	25.9996
Total	**21.7342**	**0.2044**	**16.9172**	**7.7000e-004**		**0.0924**	**0.0924**		**0.0924**	**0.0924**	**0.0000**	**25.5441**	**25.5441**	**0.0182**	**0.0000**	**25.9996**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	231.6436	13.6147	0.3245	668.7158
Unmitigated	289.5545	17.0184	0.4056	835.8947

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

Apartments Low Rise	84.7654 / 53.439	49.6825	2.7652	0.0660	138.4762
City Park	0 / 93.6504	13.9695	1.8900e-003	4.7000e-004	14.1574
General Light Industry	321.336 / 0	158.1223	10.4783	0.2491	494.3224
Regional Shopping Center	4.44435 / 2.72396	2.5933	0.1450	3.4600e-003	7.2487
Retirement Community	28.9935 / 18.2785	16.9936	0.9458	0.0226	47.3650
Single Family Housing	82.2244 / 51.8371	48.1932	2.6823	0.0640	134.3251
Total		**289.5545**	**17.0184**	**0.4056**	**835.8947**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	67.8123 / 42.7512	39.7460	2.2121	0.0528	110.7809
City Park	0 / 74.9203	11.1756	1.5100e-003	3.8000e-004	11.3259
General Light Industry	257.069 / 0	126.4978	8.3827	0.1993	395.4579
Regional Shopping Center	3.55548 / 2.17917	2.0746	0.1160	2.7700e-003	5.7990
Retirement Community	23.1948 / 14.6228	13.5949	0.7567	0.0181	37.8920
Single Family Housing	65.7795 / 41.4697	38.5546	2.1458	0.0512	107.4601
Total		**231.6436**	**13.6148**	**0.3245**	**668.7158**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	82.7322	4.8893	0.0000	204.9656
Unmitigated	827.3222	48.8933	0.0000	2,049.6556

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	598.46	121.4820	7.1794	0.0000	300.9664
City Park	6.76	1.3722	0.0811	0.0000	3.3996
General Light Industry	1723.05	349.7636	20.6704	0.0000	866.5245
Regional Shopping Center	63	12.7884	0.7558	0.0000	31.6828
Retirement Community	204.7	41.5523	2.4557	0.0000	102.9439
Single Family Housing	1479.69	300.3637	17.7510	0.0000	744.1384
Total		**827.3222**	**48.8934**	**0.0000**	**2,049.6556**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	59.846	12.1482	0.7179	0.0000	30.0966
City Park	0.676	0.1372	8.1100e-003	0.0000	0.3400
General Light Industry	172.305	34.9764	2.0670	0.0000	86.6525
Regional Shopping Center	6.3	1.2788	0.0756	0.0000	3.1683
Retirement Community	20.47	4.1552	0.2456	0.0000	10.2944
Single Family Housing	147.969	30.0364	1.7751	0.0000	74.4138
Total		**82.7322**	**4.8893**	**0.0000**	**204.9656**

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

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	0.3555	0.0000	0.0000	0.3555

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	186.15 / 0	-802.3065	0.0000	0.0000	-802.3065
Scrub	691.26 / 0	-9,885.0180	0.0000	0.0000	-9,885.018
Trees	2.42 / 0	-268.6200	0.0000	0.0000	-268.6200
Wetlands	6.17 / 0	0.0000	0.0000	0.0000	0.0000
Total		**-10,955.9445**	**0.0000**	**0.0000**	**-10,955.9445**

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			

Miscellaneous	15475	10,956.3000	0.0000	0.0000	10,956.3000
Total		**10,956.3000**	**0.0000**	**0.0000**	**10,956.3000**

APPENDIX A

CALEEMOD PRINTOUT: SOLAR REDUCTIONS WITH SCHOOLS

The Project design calls for the installation of mono-crystalline silicon cell photovoltaic solar modules (PV) throughout the project site. Conservative estimates by the Project's Solar Consultant show the Project would install 8,148 kilowatts (kW) of roof mounted fixed tilt PV and 4,000 kW of single axis tracking PV on the 20.8 gross acre Solar Farm site. The Project's Solar farm would install up to 217.39 kW per acre, which is equivalent to 621 panels rated at 350-watts each or 679 panels rated at 320-watts. The single axis tracking system would increase the energy production by mechanically moving the PV panels with the sun. Additionally, the Project would require power stations, inverters, AC switchgear and medium voltage transformers. The breakdown of the Project's proposed photovoltaic specifications was prepared with the assistance of the Project Solar Consultant and shown in Table XX below.

Table XX: Photovoltaic Energy Production by Land Use (With School)

QTY	Units	Land Use	System Size (kW)	Solar Annual Production (kWh)	kW/Unit	kWh per Unit	MT CO_2e / Unit	Total MT / Land Use (CO_2e)
1,279	Dwelling Unit	Low Density Residential	3,816	5,557,496	2.98	4,345.19	1.43	1,823
790	Dwelling Unit	Medium Density Residential	1,913	2,785,739	2.42	3,526.25	1.16	914
445	Dwelling Unit	Active Adults Homes	1,068	1,555,400	2.40	3,495.28	1.15	510
435	Dwelling Unit	Village Center Area	870	1,267,039	2.00	2,912.73	0.96	416
1	Parks and Schools	Parks and Schools	240	349,528	240.00	349,528.00	114.63	115
1	All other Commercial Loads	All other Commercial Loads	240	349,528	240.00	349,528.00	114.63	115
1	Special Use	Solar Farm	4,000	8,607,309	217.39	467,788.53	153.42	2,823
		Combined Total	**12,147**	**20,472,039**				**6,714**

Based on Table XX above, the Project's photovoltaic system would generate 20,472,039 kWh per year for the with school scenario. The total energy usage was analyzed within CalEEMod and was found offset 6,714 MT CO_2e. Similarly, the project was analyzed for the without school scenario and is shown in Table YY. Based on this scenario, the Project PV without School scenario would generate 20,378,877 kWh per year and would offset 6,683 MT CO_2e per year.

Table YY: Photovoltaic Energy Production by Land Use (Without School)

QTY	Units	Land Use	System Size (kW)	Solar Annual Production (kWh)	kW/Unit	kWh per Unit	MT CO_2e / Unit	Total MT / Land Use (CO_2e)
1,338	Dwelling Unit	Low Density Residential	3,992	5,813,862	2.98	4,345.19	1.43	1,907
790	Dwelling Unit	Medium Density Residential	1,913	2,785,739	2.42	3,526.25	1.16	914
445	Dwelling Unit	Active Adults Homes	1,068	1,555,400	2.40	3,495.28	1.15	510
435	Dwelling Unit	Village Center Area	870	1,267,039	2.00	2,912.73	0.96	416
1	Parks and Schools	Parks and Schools	-	-	0.00	-	0.00	0
1	All other Commercial Loads	All other Commercial Loads	240	349,528	240.00	349,528.00	114.63	115
1	Special Use	Solar Farm	4,000	8,607,309	217.39	467,788.53	153.42	2,823
		Combined Total	**12,083**	**20,378,877**		**831,595.99**	**272.73**	**6,683**

The system sizing has been verified based on similar fixed tilt systems installed within the United States as identified by the National Renewable Energy Laboratory (NREL, 2013)[1]. The study identified a term call "packing factor" which is a ratio between the actual solar footprint and the total footprint which includes spacing between modules, setbacks and area not directly used for solar. A 100 percent packing factor would represent complete coverage of solar panels with no spacing between arrays. Based on that study, projects typically achieve packing factors which ranged between 13 and 92 percent. Another way of looking at those projects would be the total number of kilowatts (kW) per acre. Projects with higher packing factors would have a higher number of panels or kilowatts per acre. For example sites with low packing factors generally have lower amounts of solar installed per acre such as the CALRENEW-1 project site which installed 133 kW per acre vs sites with a high packing factor such as the Canton Landfill project which installed 5.7 MW on a 12.8 acre site or 445 kW per acre (Southern Sky Renewable Energy, LLC, 2020)[1]. Given this, the proposed project could reasonably install up to 275 kW per acre according to the data provided by National Renewable Energy Laboratory's (NREL)[1] and based on typical panel spacing. Given this, the Project's proposed 217.39 kW system would be conservative.

[1] https://www.nrel.gov/docs/fy13osti/56290.pdf

[2] https://www.gemmapower.com/portfolio/canton-landfill-solar-energy-project/

Fanita Solar With School - San Diego County, Annual

Fanita Solar With School

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	1.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2030
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project would install 12,148 KW of solar

Land Use - Ground Mount Solar

Construction Phase -

Off-road Equipment -

Off-road Equipment - zero hours

Trips and VMT - zero

Grading -

Architectural Coating -

Vehicle Trips -

Woodstoves -

Area Coating -

Landscape Equipment - zero

Energy Use -

Water And Wastewater -

Energy Mitigation - With School Scenario - Solar would generate 20,472,039 kWh per year.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblLandUse	LotAcreage	0.00	1.00
tblOffRoadEquipment	HorsePower	187.00	174.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	3.00	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					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	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					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	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	2.0000e-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	**0.0000**	**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**	**2.0000e-005**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	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	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	-6,690.441	-6,690.441	-0.2693	-0.0557	-6,713.777
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	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**-6,690.4418**	**-6,690.4418**	**-0.2693**	**-0.0557**	**-6,713.7774**

	ROG	NOx	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**	**33,452,209,100.00**	**33,452,209,100.00**	**0.00**	**0.00**	**33,568,887,200.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/2/2019	5/2/2019	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	0.00	174	0.41

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

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

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

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
User Defined Industrial	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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	14.70	6.60	6.60	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
User Defined Industrial	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	-6,690.4410	-6,690.4410	-0.2693	-0.0557	-6,713.7770
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					
User Defined Industrial	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**

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					
User Defined Industrial	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			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	-2.0472e+0	-6,690.4418	-0.2693	-0.0557	-6,713.777
Total		**-6,690.4418**	**-0.2693**	**-0.0557**	**-6,713.7774**

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	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	2.0000e-005
Unmitigated	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	2.0000e-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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					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	2.0000e-005
Total	**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**	**2.0000e-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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					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	2.0000e-005
Total	**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**	**2.0000e-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			

User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	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			
User Defined Industrial	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			
User Defined Industrial	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

APPENDIX A

CALEEMOD PRINTOUT: SOLAR REDUCTIONS WITHOUT SCHOOLS

The Project design calls for the installation of mono-crystalline silicon cell photovoltaic solar modules (PV) throughout the project site. Conservative estimates by the Project's Solar Consultant show the Project would install 8,148 kilowatts (kW) of roof mounted fixed tilt PV and 4,000 kW of single axis tracking PV on the 20.8 gross acre Solar Farm site. The Project's Solar farm would install up to 217.39 kW per acre, which is equivalent to 621 panels rated at 350-watts each or 679 panels rated at 320-watts. The single axis tracking system would increase the energy production by mechanically moving the PV panels with the sun. Additionally, the Project would require power stations, inverters, AC switchgear and medium voltage transformers. The breakdown of the Project's proposed photovoltaic specifications was prepared with the assistance of the Project Solar Consultant and shown in Table XX below.

Table XX: Photovoltaic Energy Production by Land Use (With School)

QTY	Units	Land Use	System Size (kW)	Solar Annual Production (kWh)	kW/Unit	kWh per Unit	MT CO_2e / Unit	Total MT / Land Use (CO_2e)
1,279	Dwelling Unit	Low Density Residential	3,816	5,557,496	2.98	4,345.19	1.43	1,823
790	Dwelling Unit	Medium Density Residential	1,913	2,785,739	2.42	3,526.25	1.16	914
445	Dwelling Unit	Active Adults Homes	1,068	1,555,400	2.40	3,495.28	1.15	510
435	Dwelling Unit	Village Center Area	870	1,267,039	2.00	2,912.73	0.96	416
1	Parks and Schools	Parks and Schools	240	349,528	240.00	349,528.00	114.63	115
1	All other Commercial Loads	All other Commercial Loads	240	349,528	240.00	349,528.00	114.63	115
1	Special Use	Solar Farm	4,000	8,607,309	217.39	467,788.53	153.42	2,823
		Combined Total	**12,147**	**20,472,039**				**6,714**

Based on Table XX above, the Project's photovoltaic system would generate 20,472,039 kWh per year for the with school scenario. The total energy usage was analyzed within CalEEMod and was found offset 6,714 MT CO_2e. Similarly, the project was analyzed for the without school scenario and is shown in Table YY. Based on this scenario, the Project PV without School scenario would generate 20,378,877 kWh per year and would offset 6,683 MT CO_2e per year.

Table YY: Photovoltaic Energy Production by Land Use (Without School)

QTY	Units	Land Use	System Size (kW)	Solar Annual Production (kWh)	kW/Unit	kWh per Unit	MT CO_2e / Unit	Total MT / Land Use (CO_2e)
1,338	Dwelling Unit	Low Density Residential	3,992	5,813,862	2.98	4,345.19	1.43	1,907
790	Dwelling Unit	Medium Density Residential	1,913	2,785,739	2.42	3,526.25	1.16	914
445	Dwelling Unit	Active Adults Homes	1,068	1,555,400	2.40	3,495.28	1.15	510
435	Dwelling Unit	Village Center Area	870	1,267,039	2.00	2,912.73	0.96	416
1	Parks and Schools	Parks and Schools	-	-	0.00	-	0.00	0
1	All other Commercial Loads	All other Commercial Loads	240	349,528	240.00	349,528.00	114.63	115
1	Special Use	Solar Farm	4,000	8,607,309	217.39	467,788.53	153.42	2,823
		Combined Total	**12,083**	**20,378,877**		**831,595.99**	**272.73**	**6,683**

The system sizing has been verified based on similar fixed tilt systems installed within the United States as identified by the National Renewable Energy Laboratory (NREL, 2013)[1]. The study identified a term call "packing factor" which is a ratio between the actual solar footprint and the total footprint which includes spacing between modules, setbacks and area not directly used for solar. A 100 percent packing factor would represent complete coverage of solar panels with no spacing between arrays. Based on that study, projects typically achieve packing factors which ranged between 13 and 92 percent. Another way of looking at those projects would be the total number of kilowatts (kW) per acre. Projects with higher packing factors would have a higher number of panels or kilowatts per acre. For example sites with low packing factors generally have lower amounts of solar installed per acre such as the CALRENEW-1 project site which installed 133 kW per acre vs sites with a high packing factor such as the Canton Landfill project which installed 5.7 MW on a 12.8 acre site or 445 kW per acre (Southern Sky Renewable Energy, LLC, 2020)[1]. Given this, the proposed project could reasonably install up to 275 kW per acre according to the data provided by National Renewable Energy Laboratory's (NREL)[1] and based on typical panel spacing. Given this, the Project's proposed 217.39 kW system would be conservative.

[1] https://www.nrel.gov/docs/fy13osti/56290.pdf

[2] https://www.gemmapower.com/portfolio/canton-landfill-solar-energy-project/

Fanita Solar Without School

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	1.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2030
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project would install 12,083 KW of solar

Land Use - Ground Mount Solar

Construction Phase -

Off-road Equipment -

Off-road Equipment - zero hours

Trips and VMT - zero

Grading -

Architectural Coating -

Vehicle Trips -

Woodstoves -

Area Coating -

Landscape Equipment - zero

Energy Use -

Water And Wastewater -

Energy Mitigation - With School Scenario - Solar would generate 20,378,877 kWh per year.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblLandUse	LotAcreage	0.00	1.00
tblOffRoadEquipment	HorsePower	187.00	174.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	3.00	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					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	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					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	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	2.0000e-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	**0.0000**	**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**	**2.0000e-005**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	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	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	-6,659.995	-6,659.995	-0.2681	-0.0555	-6,683.225
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	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**-6,659.9956**	**-6,659.9956**	**-0.2681**	**-0.0555**	**-6,683.2251**

	ROG	NOx	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**	**33,299,978,300.00**	**33,299,978,300.00**	**0.00**	**0.00**	**33,416,125,400.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/2/2019	5/2/2019	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	0.00	174	0.41

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

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

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

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
User Defined Industrial	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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	14.70	6.60	6.60	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
User Defined Industrial	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	-6,659.9953	-6,659.9953	-0.2681	-0.0555	-6,683.2251
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					
User Defined Industrial	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**

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					
User Defined Industrial	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			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	-2.03789e+	-6,659.9957	-0.2681	-0.0555	-6,683.225
Total		**-6,659.9957**	**-0.2681**	**-0.0555**	**-6,683.2251**

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	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	2.0000e-005
Unmitigated	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	2.0000e-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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					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	2.0000e-005
Total	**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**	**2.0000e-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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					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	2.0000e-005
Total	**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**	**2.0000e-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			

User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	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			
User Defined Industrial	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			
User Defined Industrial	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

APPENDIX B

CALCULATION FOR EMISSIONS ASSOCIATED WITH AGRICULTURE-BASED WATER USE

Congressional Research Service: California Agricultural Production and Irrigated Water Use. June 30, 2015

https://fas.org/sgp/crs/misc/R44093.pdf

Water applied on Irrigated Acres: Selected California Crops-Average Acre Feet (AF) Water Applied per Acre

USDA, 2013 *Farm and Ranch Irrigation Survey* (FRIS), Table 36, http://www.agcensus.usda.gov/Publications/2012/Online_Resources/Farm_and_Ranch_Irrigation_Survey/.

Land in Vegetables: 2.8

Corn: 2.7

Tomatoes: 2.7

Lettuce/Romaine: 2.5

Orchards: 2.7

Assume 2.8 AF/Acre of water consumption for community agriculture purposes

Fanita Ranch Specific Plan States the Agricultural uses would be community gardens (farm to table), orchards and vineyards

Total area Agricultural uses: 38.2 Acres

325850.943 gallon/acre-foot

34,853,016.86 gallon/acre agricultural land use/year

Without Mitigation

	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	MT/yr					
Area	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	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
Waste	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water	0.0000	126.5459	126.5459	5.0900e-003	1.0500e-003	126.9873
Total	**0.0000**	**126.5459**	**126.5459**	**5.0900e-003**	**1.0500e-003**	**126.9873**

With State Measures (60% renewable energy)

	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	MT/yr					
Area	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	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
Waste	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water	0.0000	50.6191	50.6191	1.8000e-004	0.0000	50.6235
Total	**0.0000**	**50.6191**	**50.6191**	**1.8000e-004**	**0.0000**	**50.6235**

APPENDIX C

INTEGRATING THE FANITA RANCH PROJECT TRANSPORTATION IMPACT ANALYISIS INFORMATION INTO THE CALIFORNIA EMISSIONS ESTIMATOR MODEL (CALEEMOD)

LSA

CARLSBAD
FRESNO
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

MEMORANDUM

DATE: May 19, 2020

TO: City of Santee

FROM: Michael Hendrix

SUBJECT: Integrating the Fanita Ranch Project Transportation Impact Analysis into the California Emissions Estimator Model (CalEEMod) (LSA Project No. HRS1601)

Mobile sources for the Fanita Ranch Project (Project) would primarily be motor vehicles (automobiles and light-duty trucks) traveling to and from the proposed land uses and would primarily include future residents. The anticipated project trip generation, including the trip rates, total trips and total vehicle miles traveled (VMT), are based on the project's Transportation Impact Analysis prepared by Linscott, Law and Greenspan, Engineers, Inc. (LLG 2020). The California Emission Estimator Model (CalEEMod) was used to calculate the emissions resulting from on-road mobile sources associated with residents as well as workers, customers, and delivery vehicles traveling to and from the proposed land use types. LSA modified the default vehicle trip rates, trip lengths, and vehicle trip types in CalEEMod to match the VMT calculations provided by LLG in the Transportation Impact Analysis. The following text describes how the CalEEMod defaults were modified.

Default trip generation rates and trip lengths included in CalEEMod for each analyzed proposed project land use in the buildout scenario were adjusted to match the average weekday trip rates and total weekday VMT data (243,266 VMT daily for the Preferred Land Use Plan with Schools and 249,124 VMT daily for the Land Use Plan without Schools, discussed in detail below) provided in the project's VMT Evaluation (LLG 2020). In addition, Saturday and Sunday trip rates for the proposed project land uses were adjusted in proportion to the CalEEMod default trips rates and the project's assumed weekday trip rate (LLG 2020). In determining total trips associated with the project, LLG included reductions associated with pass-by trips for the school (in the Preferred Land Use Plan with School) and local commercial, and a broad internal capture rate for the project. By contrast, CalEEMod factors in pass-by trips by adjusting the trip lengths discussed below. Table A depicts the comparison with the CalEEMod default and assumed project trip rates.

Table A: CalEEMod Default Trip Rates and Assumed Project Trip Rates

Land Use Type	Size Metric	CalEEMod Default Trip Rates	Fanita Ranch Project Trip Rates			
		Weekday Trip Rate	Weekday Trip Rate	Pass-thru rate	Internal Capture	Net Trip Rate
Residential Uses						
Village Center Mixed Use: Multifamily Residential	Dwelling Unit	6.59	8.00	0%	8.5%	7.32

Table A: CalEEMod Default Trip Rates and Assumed Project Trip Rates

Land Use Type	Size Metric	CalEEMod Default Trip Rates	Fanita Ranch Project Trip Rates			
		Weekday Trip Rate	Weekday Trip Rate	Pass-thru rate	Internal Capture	Net Trip Rate
Active Adult Multifamily Residential	Dwelling Unit	2.40	4.27	0%	8.5%	3.91
Medium Density Multifamily Residential	Dwelling Unit	6.59	8.00	0%	8.5%	7.32
Single-Family Detached Residential	Dwelling Unit	9.52	10.00	0%	8.5%	9.15
Non-Residential Uses						
Village Center Mixed Use Local Serving Retail	1,000 SF	44.32	40.00	55%	8.5%	32.94
K–8 School	Students	1.29	1.85	40%	8.5%	1.02
Agricultural Farm	Acres	—	2.00	0%	8.5%	1.83
Active Park	Acres	1.89	50.00	0%	8.5%	47.55
Passive Park	Acres	1.89	5.00	0%	8.5%	4.58
Recreation Center	1,000 SF	33.82	28.82	0%	8.5%	26.37
RV Parking/Solar Farm	Spaces	—	0.200	0%	8.5%	0.18

Sources: CAPCOA 2016; LGG 2020
SF = square feet

Annual emissions at buildout are needed to analyze GHG emissions. Therefore, the daily totals were annualized by multiplying the daily rate by the CARB conversion factor of 347 (CARB 2018). Table B presents the daily and annual trips generated by the project at build-out conditions in 2035, based on the trip rates depicted in Table A.

Table B: Estimated Daily and Annual Trips

Land Use Type	Units	Size Metric	Trips per Day	Trips per Year
Preferred Land Use Plan with School				
Village Center Mixed Use: Multifamily Residential	790	Dwelling Unit	3,180	1,103,460
Active Adult Multifamily Residential	445	Dwelling Unit	1,735	602,045
Medium Density Multifamily Residential	435	Dwelling Unit	5,780	2,005,660
Single-Family Detached Residential	1,279	Dwelling Unit	11,668	4,048,796
Village Center Mixed Use Local Serving Retail	80	1,000 SF	1,365	473,655
K–8 School	1,000	Students	1,015	352,205
Agricultural Farm	38.2	Acres	65	22,555
Active Park	19.9	Acres	910	315,770
Passive Park	58.3	Acres	245	85,015
Recreation Center	10	1,000 SF	264	91,608
RV Parking/Solar Farm	250	Spaces	45	15,615
		Totals	26,272	9,116,384

Table B: Estimated Daily and Annual Trips

Land Use Type	Units	Size Metric	Trips per Day	Trips per Year
Land Use Plan without School				
Village Center Mixed Use: Multifamily Residential	790	Dwelling Unit	3,180	1,103,460
Active Adult Multifamily Residential	445	Dwelling Unit	1,735	602,045
Medium Density Multifamily Residential	435	Dwelling Unit	5,780	2,005,660
Single-Family Detached Residential	1,338	Dwelling Unit	12,243	4,248,217
Village Center Mixed Use Local Serving Retail	80	1,000 SF	1,365	473,655
Agricultural Farm	38.2	Acres	65	22,555
Active Park	19.9	Acres	910	315,770
Passive Park	53.5	Acres	245	85,015
Recreation Center	10	1,000 SF	264	91,608
RV Parking/Solar Farm	250	Spaces	45	15,615
		Totals	26,847	9,315,805

Source: LLG 2020

Mitigation Measure Air-6 would result in reductions of project VMT, which is presented in the Air Quality Analysis for Fanita Ranch Project (LSA 2020). The estimated VMT reductions are based on the California Air Pollution Control Officers Association Quantifying Greenhouse Gas Mitigation Measures: A Resource for Local Government to Assess Emission Reductions from Greenhouse Gas Mitigation Measures (CAPCOA Quantification Report) (CAPCOA 2010) guidance document and the proposed project's TDM Program. The CAPCOA Quantification Report notes that when determining the overall VMT reduction associated with a project, the VMT reduction for each individual strategy should be "dampened," that is adjusted to reflect the fact that some of the strategies may be redundant or applicable to the same populations (CAPCOA 2010).

In addition to trip rates (presented in Table A), trip lengths, trip purpose, and trip type are factors in the calculation of proposed project VMT and associated vehicle-generated emissions. In general, CalEEMod determines an overall average trip length for primary, diverted, and pass-by trip link types[1] where primary trips are 100 percent of the trip length; diverted trips are 25 percent of the primary trip length; and pass-by trips are 0.1 mile (CAPCOA 2016). For this project analysis, the CalEEMod default trip type percentages were adjusted so that the CalEEMod generated VMT would mathematically match the overall weekday VMT data (i.e., 243,266 daily VMT for the Preferred Land Use Plan with Schools and 249,124 for the Land Use Plan without Schools) provided in the proposed project's VMT Analysis (LLG 2020). This simple mathematical adjustment was performed by assuming all trip lengths were the same and all trips were primary trips. This approach is consistent with the transportation modeling, which accounts for a full inventory of trip categories; that is, both primary and shorter trips are already assessed in the model (i.e., the modeled VMT estimates

[1] Trip link types further describe the characteristics of the trip attracted to each land use, whether it is a primary trip, a diverted link trip, or a pass-by trip. For example, a commercial customer pass-by trip could be a person going from home to shop on the way to work. In addition, a commercial customer diverted-link trip could be a person going from home to work, and making a diversion to shop (CAPCOA 2016).

provided in the TDM Program Evaluation reflect primary trip, pass-by trips, and diverted trips). Table C depicts the CalEEMod default and adjusted trip lengths.

Table C: CalEEMod Default and Project Adjusted Trip Lengths

Land Use Type	CalEEMod Default Trip Length			Fanita Ranch Project Adjusted Miles		
Residential Trip Type	**Home–Work**	**Home–Shop**	**Home–Other**	**Home–Work**	**Home–Shop**	**Home–Other**
Village Center Mixed Use: Multifamily Residential	10.8	7.3	7.5	20.4	20.4	20.4
Active Adult Multifamily Residential	10.8	7.3	7.5	12.8	12.8	12.8
Medium Density Multifamily Residential	10.8	7.3	7.5	20.4	20.4	20.4
Single-Family Detached Residential (low Density)	10.8	7.3	7.5	20.4	20.4	20.4
Non-Residential Trip Type	**Commercial–Customer**	**Commercial–Work**	**Commercial–Non-Work**	**Commercial–Customer**	**Commercial–Work**	**Commercial–Non-Work**
K–8 School	9.5	7.3	7.3	11.3	11.3	11.3
Agricultural Farm	9.5	7.3	7.3	12.25	12.25	12.25
Active Park	9.5	7.3	7.3	12.25	12.25	12.25
Passive Park	9.5	7.3	7.3	12.25	12.25	12.25
Recreation Center	9.5	7.3	7.3	12.25	12.25	12.25
RV Parking/Solar Farm	9.5	7.3	7.3	11.9	11.9	11.9

Source: CAPCOA 2016, LSA 2019

Finally, CalEEMod default emissions factors and vehicle fleet mix were conservatively used for the model inputs to estimate daily emissions from proposed vehicular sources. Emission factors representing the vehicle mix and emissions for 2035 were used to estimate emissions associated with full buildout of the project.

Electric Vehicle Chargers

The proposed project would include a multi-pronged approach to increasing EV adoption for its residents. As part of this strategy: Level 2 Electric Vehicle Supply Equipment (EVSE) would be installed in the garages all single-family residential units (1,203 units in the Preferred Land Use Plan with Schools and 1,262 in the Land Use Plan without Schools), a total of 354 within the parking areas of multifamily residential, and 15 parking spaces located in the proposed project's commercial parking lots. These Proposed Project–specific strategies, in conjunction with market forces decreasing the cost and increasing the availability of EVs, regional charging initiatives decreasing range anxiety and increasing the share of miles driven by plug-in hybrid electric vehicles (PHEVs) in EV mode, and State targets fueling large programs and incentive pools making EV ownership more

cost effective and appealing, will increase the market penetration of EVs and share of EV miles driven as a result of the proposed project.

The cornerstone of the proposed project's strategy to increase EV adoption by future residents is the availability of "fast-charging" through 240- volt Level 2 EVSE equipment. In a 2011 report investigating people's major decision-making factors in purchasing an EV, the highest percentage of respondents (63 percent) cited the ability to charge at home (Accenture 2011). Home charging is also the most commonly used method of charging, accounting for more than 70 percent of all charging (Holland 2016). Charging at home is often the most convenient, since cars are parked overnight, allowing them sufficient time to charge when they are not in use and when energy is priced at "super off-peak" and is the least expensive (SDG&E 2017).

Studies have found that the availability of charging at home increased the person's propensity to purchase both EVs and PHEVs (Hidrue et al. 2011; Tal et al. 2013). Additionally, the CEC identified home charging as a high-priority strategy to increase EV sales and increase the number of miles driven by EVs (NREL 2014). The importance of charging EVs at home has been shown to be leveraged and made more appealing with the free installation of Level 2 EVSE. Of early EV owners surveyed in 2013, 56 percent of those respondents received a free or subsidized Level 2 charger, and almost 60 percent of those who received free or subsidized chargers cited the importance of that charger as the entire project is well within typical EV and PHEV range, either "a lot" or "a deciding factor" (CSE 2013). Of owners of PHEVs, 80 percent of them found the importance of the subsidy to install a Level 2 charger influential in their purchase (Krupa et al. 2014). The proposed project's efforts to increase EV adoption is also supported by the charging infrastructure in the surrounding community. In the City of Chula Vista, there are over 20 public charging stations within 15 miles of the project area, and 140 public charging stations within the Greater San Diego Area (Plugshare 2017). This existing infrastructure is focused in areas where cars are parked for longer periods of time allowing for greater charging, such as shopping malls and downtowns. This infrastructure pattern allows for PHEVs to charge more frequently and achieve similar EV mode miles as full-EVs (INL 2016). Planned infrastructure in the San Diego region, notably at park and rides and the San Diego International Airport is congruent with strategies outlined by the National Energy Renewable Laboratory (NREL 2014; Trabish 2017).

Of EV owners surveyed, 94 percent live in households with two or more people, and most have access to a conventional gasoline or diesel car. For those households with both a conventional gas car and EV, the EV is used for over 85 percent of the household VMT, and the conventional car is used primarily used for vacation and long distance travel (CSE 2012, 2013). The development pattern of the proposed project would serve households similar to those existing owners and is well within EV range of existing employment and retail centers in the City of Santee. Therefore, the Proposed Project's majority single-family product type and proximity to daily needs well within current EV range, make it well suited for EV adoption, and associated on-site mitigation would meaningfully reduce on-site GHG emissions. Substantial reduction in VMT-related emissions would be expected from the proposed project's facilitation of EV ownership and was assumed to reduce conventional gasoline fueled car use by 13 percent. This is reflected in CalEEMod by the application of a 13 percent reduction in VMT per household and an increase in household electricity usage to account for vehicle charging.

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APPENDIX D

SUSTAINABLE SANTEE PLAN CEQA PROJECT CONSISTENCY CHECKLIST

Sustainable Santee Action Plan Consistency and Implementation Tracking Checklist

The Sustainable Santee Action Plan Project Consistency Checklist (Checklist) is intended to be a tool for development projects to demonstrate consistency with Santee's (City's) Sustainable Santee Action Plan, which is a qualified greenhouse gas (GHG) emissions reduction plan in accordance with California Environmental Quality Act (CEQA) Guidelines Section 15183.5. This Checklist has been developed as part of the Sustainable Santee Action Plan implementation and monitoring process and will support the achievement of individual GHG reduction measures as well as the City's overall GHG reduction goals. In addition, this Checklist will further the City's sustainability goals and policies that encourage sustainable development and aim to conserve and reduce the consumption of resources, such as energy and water, among others.

CEQA Guidelines Section 15183.5 allows lead agencies to analyze the impacts associated with GHG emissions at a programmatic level in plan-level documents such as Climate Action Plans or sustainability plans, so that project-level environmental documents may tier from the programmatic review. Projects that meet the requirements of this Checklist will be deemed to be consistent with the Sustainable Santee Action Plan and will be found to have a less than significant contribution to cumulative GHG (i.e., the project's incremental contribution to cumulative GHG effects is not cumulatively considerable), pursuant to CEQA Guidelines Sections 15064(h)(3), 15130(d), and 15183(b). Projects that do not meet the requirements in this Checklist will be deemed to be inconsistent with the Sustainable Santee Action Plan and must prepare a project-specific analysis of GHG emissions, including quantification of existing and projected GHG emissions and incorporation of the measures in this Checklist to the extent feasible. This GHG Checklist can be updated to reflect adoption of new GHG reduction strategies or to comply with any changes and updates in the Plan or local, State or federal regulations.

1. Project Information	
Contact Information	
Project No./Name:	Fanita Ranch Specific Plan
Address:	10601 Magnolia Avenue, Santee, California 92071
Applicant Name:	City of Santee
Contact Information:	
Project Description Characteristics	
1. What is the size of the Project (acres)?	2638
2. Identify all Applicable Proposed Land uses:	Residential, Commercial, School, Parks, Open Space, Agriculture, and Special Use
a. Residential-Single Family (Indicate number of single-family units)	1203
b. Residential-Multifamily (Indicate number of multifamily units)	1746
c. Commercial (total square footage)	80000
d. Industrial (total square footage)	N/A
e. Other (describe)	2262
3. Provide a brief description of the project proposed:	

2. Determining Land Use Consistency		
Checklist Item		
As the first step in determining the consistency with the Sustainable Santee Action Plan for the discretionary development projects, this section allows the City to determine the project's consistency with the land use assumptions used in the Plan.		
	Yes	**No**
1. Is the proposed project consistent with the existing General Plan and land use zoning designations? OR		X
2. If the proposed project is not consistent with the existing land use plan and zoning designations, does the project include a land use plan and/or zoning designation amendment that is identified in the Sustainable Santee Action Plan Land Use Buffer (see Appendix A, Table 11)?	X	
3. If the proposed project is not consistent with the existing land use plan, zoning designations, or Land Use Buffer, does the project include a land use plan and/or zoning designation ammendment that will result in an equivalent or less GHG-intensive project when compared to the existing designations?		

Notes:

For questions 1, if the answer is **Yes**, proceed to the Sustainable Santee Action Plan Consistency Checklist. If the answer is **No**, procced to question 2.

For question 2, if the answer is **Yes**, proceed to the Sustainable Santee Action Plan Consistency Checklist. If the answer is **No**, proceed to question 3.

For question 3, if the answer is **Yes** provide estimated project emissions under both existing and proposed designation (s) for comparison. Compare the maximum buildout of the existing designation and the maximum buildout of the proposed designation. If the answer of question 3 is **No** then, in accordance with the City's Significance Determination Thresholds, the project's GHG impact may be significant. The project must nonetheless incorporate each of the applicable measures identified in the Checklist to mitigate cumulative GHG emissions impacts unless the decision maker finds that a measure is infeasible in accordance with CEQA Guidelines Section 15091.

Sustainable Santee Action Plan CEQA Project Consistency Checklist					Notes
Greenhouse Gas Reduction Measure	**Measure Applicability**				This checklist is to be filled out by the applicant
	Yes	**No**	**N/A**	**Description**	
Emissions Measures Category: Energy Efficiency					Measure 1.1 is not on checklist because it focuses on minor residential alterations not subject to CEQA
Land Use Sector-Residential					
Goal 1. Increase Energy Efficiency in Existing Residential Units					
Measure 1.2. For existing Residential Unit Permit for Major Modifications (more than 30% of dwelling unit size, including bathroom and kitchen) that is considered a Project under CEQA must implement energy efficiency retrofits recommended from City Energy Audit and explain the energy efficiency retrofits implemented.			X	Not Applicable. There are no existing residential units on the project site.	Measure 1.2 only applies if alteration is subject to CEQA
Goal 2. Increase Energy Efficiency in the New Residential Units					
Measure 2.1. New residential construction meet or exceed California Green Building Standards Tier 2 Voluntary Measures, such as obtaining green building ratings including LEED, Build it Green, or Energy Star Certified building certifications in scoring development and explain the measures implemented.	X			Applicable. See Mitigation Measure AIR-8 and GHG-1	
Land Use Sector-Commercial					Measure 3.1 is not on checklist because it focuses on minor alterations which are not subject to CEQA
Goal 3. Increase Energy Efficiency in Existing Commercial Units					
Measure 3.2. For existing commercial units of 10,000 sq. ft. or more seeking building permits for modifications representing 30% or more sq. ft., and considered a Project under CEQA must implement energy efficiency retrofits recommended by the City to meet California Green Building Standards Tier 1 Voluntary Measures and explain the retrofits implemented.			X	Not Applicable. There are no existing commercial units on the project site.	Measure 3.2 only applies if alteration is subject to CEQA
Goal 4. Increase Energy Efficiency in New Commercial Units					
Measure 4.1. New commercial units meet or exceed California Green Building Standards Tier 2 Voluntary Measures such as obtain green building ratings including: LEED, Build it Green, or Energy Star Certified buildings certifications in scoring development and explain the measures implemented.	X			Applicable. Implementation of this goal will result in the project increasing the energy efficiency of commercial buildings by an additional 14 percent. See Mitigation Measure AIR-8 and GHG-1	

Emissions Measures Category: Advanced Goals Measures					
Land Use Sector-Commercial					
Goal 5. Decrease Energy Demand through Reducing Urban Heat Island Effect					
Measure 5.1. Project utilizes tree planting for shade and energy efficiency such as tree planting in parking lots and streetscapes.	X			Applicable. The proposed project includes parks, trails, and habitat preserve that would contribute to reducing urban heat island effect. Mitigation Measure GHG-5 requires the proposed project to plant a minimum of 26,705 trees, many along the streetscapes and parking areas of the proposed project that will shade these paved areas and further reduce the heat island effect.	
Measure 5.2. Project uses light-reflecting surfaces such as enhanced cool roofs on commercial buildings.	X			Applicable. The proposed project encourages the use of light-colored, semi-reflective or cool roof technology for all roofing including commercial buildings within the proposed project.	
Emissions Measures Category: Transportation					
Land Use Sector-Residential and Commercial					
Goal 6. Decrease GHG Emissions through a Reduction in VMT					
Measure 6.1. Proposed project streets include sidewalks, crosswalks, and other infrastructure that promotes non-motorized transportation options.	X			Applicable. See Mitigation Measure AIR-6.	
Measure 6.2. Proposed project installs bike paths to improve bike transit.	X			Applicable. The proposed project includes Class I and Class II bike lanes and bike paths, including on-street bike lanes and off-street multi-purpose trails. See Mitigation Measure AIR-6.	

Land Use Sector-Residential and Commercial **Goal 7: Increase Use of Electric Vehicles**					
Measure 7.1. Install electric vehicle chargers in all new residential and commercial developments.	X			Applicable. See Mitigation Measure AIR-7 and GHG-6.	
a. For new Single-Family Residential, install complete 40 Amp electrical service and one e-charger.	X			Applicable. See Mitigation Measure AIR-7 and GHG-6.	
b. For new Multifamily Residential, install e-chargers for 13 percent of total parking.	X			Applicable. See Mitigation Measure AIR-7 and GHG-6.	
c. For new Office Space, Regional Shopping Centers, and Movie Theaters, install e-chargers for 5 percent of total parking spaces.	X			Applicable. See Mitigation Measure AIR-7 and GHG-6.	
d. For new Industrial and other Land Uses employing 200 or more employees, install e-charges for 5 percent of total parking spaces.	X			Applicable. See Mitigation Measure AIR-7 and GHG-6.	
Land Use Sector-Residential and Commercial **Goal 8. Improve Traffic Flow**					
Measure 8.1. Implement traffic flow improvement program.	X			Applicable. See discussion of Measure 8.1a below.	Projects that include traffic controls need to show consistency with one of these
a. Install smart traffic signals at intersections warranting a traffic signal, OR	X			Applicable. See Mitigation Measure TRA-16 in the Traffic Impact Analysis (LLG 2020). The project would implement smart signals along Mission Gorge Rd. from Fanita Dr. to Town Center Pkwy. to improve traffic flow.	
b. Install roundabout.			X		

Emissions Measures Category: Solid Waste					
Land Use Sector-Residential and Commercial					
Goal 9: Decrease GHG Emissions through Reducing Solid Waste Generation					
Measure 9.1. Reduce waste at landfills.	X			Applicable. See Mitigation Measure GHG-2.	
a. All development during construction and demolition activities to recycle construction and demolition waste.	X			Applicable. See Mitigation Measure GHG-2.	
Emissions Measures Category: Clean Energy					
Land Use Sector-Residential and Commercial					
Goal 10. Decrease GHG Emissions through Increased Clean Energy Use					
Measure 10.1. Increase distributed energy generation within City of Santee by implementing the following applicable photovoltaic solar systems:	X			Applicable. See Mitigation Measure GHG-1.	
a. Single-family residential to install at least 2kW per unit of PV solar systems, unless the installation is infeasible due to poor solar resources established in a solar feasibility study prepared by a qualified solar consultant submitted with an application	X			Applicable. See Mitigation Measure GHG-1 which will meet or exceed the 2kW per unit PV solar requirement	
b. Multifamily residential to install at least 1kW per unit of PV solar systems, unless the installation is infeasible due to poor solar resources established in a solar feasibility study prepared by a qualified solar consultant submitted with an applicant's formal project submittal to City.	X			Applicable. See Mitigation Measure GHG-1 which will meet or exceed the 1kW per unit PV solar requirement	
c. On commercial buildings, install at least 2 kW per square foot of building area (e.g., 2,000 sq. ft. = 3 kW) unless the installation is infeasible due to poor solar resources.	X			Applicable. See Mitigation Measure GHG-1 which will meet or exceed the 3kW per unit PV solar requirement	