

APPENDIX F

GREENHOUSE GAS ASSESSMENT



Greenhouse Gas Assessment

The Koll Center Residences

Michael Baker
INTERNATIONAL



GREENHOUSE GAS ASSESSMENT

FOR THE

THE KOLL CENTER RESIDENCES

CITY OF NEWPORT BEACH, CALIFORNIA

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1.0 INTRODUCTION

This report documents the results of a greenhouse gas (GHG) emissions assessment completed for the Koll Center Residences Project, a 12.56-acre development project at 4400 Von Karman Avenue in Newport Beach, California. The purpose of this assessment is to estimate project-generated criteria air pollutant and GHG emissions and to determine the level of impact the project would have on the environment.

1.1 PROJECT LOCATION

The Koll Center Residences Project site in Newport Beach, California located west of Birch Street, east of and Von Karman Avenue, and north of Jamboree Road. The project site is surrounded by commercial land uses in all directions. Existing multi-family residences are located east of the project site. Major transportation facilities in the vicinity of the proposed project site include Interstate 405 located approximately 1.2 miles to the north; refer to [Exhibit 1, *Regional Vicinity*](#), and [Exhibit 2, *Site Vicinity*](#).

1.2 PROJECT DESCRIPTION

The Koll Center Residences Project proposes to demolish 819 parking spots in order to make way for the construction of 260 luxury residential condominiums, 3,000 square feet (sf) of neighborhood serving retail, a 490 stand-alone stall parking garage and a 1.19-acre public park. The condominiums consist of (3) multi-floor residential towers, 13 stories of residential over 2 levels above grade parking and 2-3 levels below grade parking, with retail at ground level. Refer to [Exhibit 3, *Site Plan*](#).

Each residential tower would include a mix of one-bedroom, two-bedroom, and three-bedroom residential condominium units. The units would be configured as flats ranging in size from approximately 1,240 sf to 3,160 sf with private balconies. Each residence would have a semi-private access through a private lobby in each building or from a secured residents-only area of the parking garage. Private amenities would be located on the third-story of each building (podium) which are proposed to include a club room, pool, spa, pool deck with shower and restroom, lawn, amenity courtyard, fitness area, and bocce ball courts. Each building would have conference centers that could be used by residents for business uses.

Building 1: Tower 1

Building 1 is proposed as a 13-story podium residential building with five levels of structured parking (3 levels below ground and 2 levels above ground), and street level retail uses. Tower 1 would have 87 residential units, as well as a multi-level penthouse unit on the top level of the building.


Building 2: Tower 1 and Tower 2

Building 2 includes two, 13-story podium residential towers with common parking and amenities. Building 2 would have four levels of structured parking (2 levels below ground and 2 levels above ground) with street level retail uses. Tower 2 and Tower 3 are proposed to have 86 and 87 residential units, respectively.

Construction Activities and Phasing

Implementation of the proposed project would be phased over a four-year period with demolition and construction activities anticipated to commence in the first quarter of 2018 and construction completed in the third quarter of 2022.



 Subject Site



Source: Google Earth Pro, April 2017



A free-standing parking structure would be constructed prior to the first residential building (Building 1) to replace surface parking temporarily and permanently displaced. Completion of the parking structure would be followed by Building 1, and then Buildings 2 and 3. The project site would be graded, and foundation excavation would require 127,730 CY of cut and removal of approximately 118,504 cubic yards (CY) of soil in total.

Implementation of the project would displace approximately 819 parking spaces associated with the existing office buildings. While a portion of the spaces would be replaced as surface parking around the proposed residential buildings, other spaces would be permanently displaced for the three buildings, a one-acre public park, and free-standing parking structure.

Phase A. Phase A includes the demolition of approximately 137 surface parking spaces to allow for the construction of a free-standing 490-stall parking structure. The approximately 50-foot-high parking structure would include three levels of below-ground parking and five levels of above-ground parking and roof deck parking. Valet parking is proposed for the use of office employees and visitors during the construction of the parking structure. Phase A would begin in advance of breaking ground on the remainder of the residential buildings. Grading associated with the parking structure would be approximately 24,726 CY of cut with approximately 24,139 CY of export from the project site. Construction activities are anticipated to occur over an approximate 10-month timeframe.

Phase 1. Phase 1 includes the demolition of approximately 331 surface parking spaces to allow for the construction of the first residential building. Accessible parking spaces for the 4440 Von Karman office building and the trash enclosure would be relocated from the south side to the north side of the building, and surface parking improvements adjacent to the building would be provided.

Building 1 would be located adjacent to Birch Street and adjacent to the office building located at 4910 Birch Street within the boundaries of the project site. Building 1 includes 87 residential units with 5 levels of parking (2 levels above-grade and 3 levels of below-grade parking), and approximately 1,768 sf of retail uses on the ground level of Building 1. The parking garages within the buildings would be gated. The displaced parking would be replaced in the new free-standing parking structure and at Building 1. Construction associated with Building 1 would require approximately 56,699 CY of cut and 51,951 CY of export. Construction activities are anticipated to occur over an approximate 22-month timeframe.

Phase 2. Phase 2 includes the demolition of approximately 243 office parking spaces to allow for the construction of Building 2 and Building 3. Building 2 would be located adjacent to and south of Building 1. Building 3 would be located southwest of Building 2. Buildings 2 and 3 include 86 and 87 residential units, respectively, 4 levels of parking (2 levels of above-grade and 2 levels of below-grade parking), and approximately 1,232 sf of retail on the ground level of Building 2. The displaced parking would be replaced with the new free-standing parking structure and Phase 1 parking garage in Building 1. Buildings 2 and 3 require approximately 46,306 CY of cut and 42,414 CY of export from the project site. Construction activities are anticipated to occur over an approximate 22-month timeframe.

Phase 3. Phase 3 includes the demolition of approximately 132 parking spaces to allow for the construction of the public park and the reconfiguration of on-site surface parking and access. The displaced parking is replaced in the new free-standing parking structure. Construction activities are anticipated to occur over an approximate 6- to 9-month timeframe.

2.0 GREENHOUSE GAS EMISSIONS

2.1 GREENHOUSE GAS EMISSIONS SETTING

Certain gases in the earth's atmosphere, classified as GHGs, play a critical role in determining the earth's surface temperature. Solar radiation enters the earth's atmosphere from space. A portion of the radiation is absorbed by the earth's surface and a smaller portion of this radiation is reflected back toward space. This absorbed radiation is then emitted from the earth as low-frequency infrared radiation. The frequencies at which bodies emit radiation are proportional to temperature. Because the earth has a much lower temperature than the sun, it emits lower-frequency radiation. Most solar radiation passes through GHGs; however, infrared radiation is absorbed by these gases. As a result, radiation that otherwise would have escaped back into space is instead "trapped," resulting in a warming of the atmosphere. This phenomenon, known as the greenhouse effect, is responsible for maintaining a habitable climate on earth. Without the greenhouse effect, the earth would not be able to support life as we know it.

Prominent GHGs contributing to the greenhouse effect are carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O). Fluorinated gases also make up a small fraction of the GHGs that contribute to climate change. Fluorinated gases include chlorofluorocarbons, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride; however, it is noted that these gases are not associated with typical land use development. Human-caused emissions of these GHGs in excess of natural ambient concentrations are believed to be responsible for intensifying the greenhouse effect and leading to a trend of unnatural warming of the earth's climate, known as global climate change or global warming. It is "extremely likely" that more than half of the observed increase in global average surface temperature from 1951 to 2010 was caused by the anthropogenic increase in GHG concentrations and other anthropogenic factors together (IPCC 2014).

Each GHG differs in its ability to absorb heat in the atmosphere based on the lifetime, or persistence, of the gas molecule in the atmosphere. CH₄ traps over 25 times more heat per molecule than CO₂, and N₂O absorbs 298 times more heat per molecule than CO₂ (IPCC 2014). Often, estimates of GHG emissions are presented in carbon dioxide equivalents (CO₂e), which weight each gas by its global warming potential (GWP). Expressing GHG emissions in CO₂e takes the contribution of all GHG emissions to the greenhouse effect and converts them to a single unit equivalent to the effect that would occur if only CO₂ were being emitted.

Climate change is a global problem. GHGs are global pollutants, unlike criteria air pollutants and toxic air contaminants, which are pollutants of regional and local concern. Whereas pollutants with localized air quality effects have relatively short atmospheric lifetimes (about one day), GHGs have long atmospheric lifetimes (one to several thousand years). GHGs persist in the atmosphere for long enough time periods to be dispersed around the globe. Although the exact lifetime of any particular GHG molecule is dependent on multiple variables and cannot be pinpointed, more CO₂ is emitted into the atmosphere than is sequestered by ocean uptake, vegetation, or other forms of carbon sequestration. Of the total annual human-caused CO₂ emissions, approximately 55 percent is sequestered through ocean and land uptakes every year, averaged over the last 50 years, whereas the remaining 45 percent of human-caused CO₂ emissions remains stored in the atmosphere (IPCC 2013).

The quantity of GHGs that it takes to ultimately result in climate change is not precisely known; suffice it to say the quantity is enormous, and no single project alone would measurably contribute to a noticeable incremental change in the global average temperature or to global, local, or microclimates. From the standpoint of CEQA, GHG impacts to global climate change are inherently cumulative.

2.0 GREENHOUSE GAS EMISSIONS

Table 1, *Greenhouse Gases*, describes the primary GHGs attributed to global climate change, including their physical properties, primary sources, and contributions to the greenhouse effect.

**TABLE 1
GREENHOUSE GASES**

Greenhouse Gas	Description
Carbon Dioxide (CO ₂)	Carbon dioxide is a colorless, odorless gas. CO ₂ is emitted in a number of ways, both naturally and through human activities. The largest source of CO ₂ emissions globally is the combustion of fossil fuels such as coal, oil, and gas in power plants, automobiles, industrial facilities, and other sources. A number of specialized industrial production processes and product uses such as mineral production, metal production, and the use of petroleum-based products can also lead to CO ₂ emissions. The atmospheric lifetime of CO ₂ is variable because it is so readily exchanged in the atmosphere. ¹
Methane (CH ₄)	Methane is a colorless, odorless gas and is the major component of natural gas, about 87 percent by volume. It is also formed and released to the atmosphere by biological processes occurring in anaerobic environments. Methane is emitted from a variety of both human-related and natural sources. Human-related sources include fossil fuel production, animal husbandry (intestinal fermentation in livestock and manure management), rice cultivation, biomass burning, and waste management. These activities release significant quantities of CH ₄ to the atmosphere. Natural sources of CH ₄ include wetlands, gas hydrates, permafrost, termites, oceans, freshwater bodies, non-wetland soils, and other sources such as wildfires. The atmospheric lifetime of CH ₄ is about 12 years. ²
Nitrous Oxide (N ₂ O)	Nitrous oxide is a clear, colorless gas with a slightly sweet odor. Nitrous oxide is produced by both natural and human-related sources. Primary human-related sources of N ₂ O are agricultural soil management, animal manure management, sewage treatment, mobile and stationary combustion of fossil fuels, adipic acid production, and nitric acid production. N ₂ O is also produced naturally from a wide variety of biological sources in soil and water, particularly microbial action in wet tropical forests. The atmospheric lifetime of N ₂ O is approximately 120 years. ³

Sources: ¹ EPA 2016a, ² EPA 2016b, ³ EPA 2016c

The California Climate Change Center (2012) identifies that global warming in California is anticipated to impact resources. The California Climate Change Center states that climate changes could affect the following resources:

Water Resources

By late-century, all projections show drying, and half of the projections suggest 30-year average precipitation will decline by more than 10 percent below the historical average. This drying trend is caused by an apparent decline in the frequency of rain and snowfall. Even in projections with relatively small or no declines in precipitation, central and southern parts of the state can be expected to be drier from the warming effects alone—the spring snowpack will melt sooner, and the moisture contained in soils will evaporate during long, dry summer months.

Wildfire Risks

Earlier snowmelt, higher temperatures and longer dry periods over a longer fire season will directly increase wildfire risk. Indirectly, wildfire risk will also be influenced by potential climate-related changes in vegetation and ignition potential from lightning. Human activities will continue to be the biggest factor in ignition risk. The number of large fires statewide are estimated to increase from 58 percent to 128 percent above historical levels by 2085. Under the same emissions scenario, estimated burned area will increase by 57 percent to 169 percent, depending on location.

Health Impacts

Many of the gravest threats to public health in California stem from the increase of extreme conditions, principally more frequent, more intense, and longer heat waves. Particular concern centers on the increasing tendency for multiple hot days in succession and heat waves occurring simultaneously in several regions throughout the state. Public health could also be affected by climate change impacts on air quality, food production, the amount and quality of water supplies, energy pricing and availability, and the spread of infectious diseases. Higher temperatures also increase ground-level ozone levels. Furthermore, wildfires can increase particulate air pollution in the major air basins of California.

Increased Energy Demand

Increases in average temperature and higher frequency of extreme heat events combined with new residential development across the state will drive up the demand for cooling in the increasingly hot and longer summer season and decrease demand for heating in the cooler season. Warmer, drier summers also increase system losses at natural gas plants (reduced efficiency in the electricity generation process at higher temperatures) and hydropower plants (lower reservoir levels). Transmission of electricity will also be affected by climate change. Transmission lines lose 7 percent to 8 percent of transmitting capacity in high temperatures while needing to transport greater loads. This means that more electricity needs to be produced to make up for the loss in capacity and the growing demand.

GREENHOUSE GAS EMISSION SOURCES

Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the transportation, industrial/manufacturing, utility, residential, commercial, and agricultural emissions sectors. California is a significant emitter of CO₂e in the world and produced 459 million gross metric tons of CO₂e in 2013. In the state, the transportation sector is the largest emitter of GHGs, followed by industrial operations such as manufacturing and oil and gas extraction (CARB 2014).

Emissions of CO₂ are by-products of fossil fuel combustion. CH₄, a highly potent GHG, primarily results from off-gassing (the release of chemicals from nonmetallic substances under ambient or greater pressure conditions) and is largely associated with agricultural practices and landfills. N₂O is also largely attributable to agricultural practices and soil management. Carbon dioxide sinks, or reservoirs, include vegetation and the ocean, which absorb CO₂ through sequestration and dissolution (CO₂ dissolving into the water), respectively, two of the most common processes for removing carbon dioxide from the atmosphere.

2.2 REGULATORY FRAMEWORK

Federal

Federal Clean Air Act

The U.S. Environmental Protection Agency (USEPA) is charged with implementing national air quality programs. USEPA's air quality mandates are drawn primarily from the Federal Clean Air Act (FCAA). The FCAA was passed in 1963 by the U.S. Congress and has been amended several times. In 1977, Congress added several provisions, including nonattainment requirements for areas not meeting National Ambient Air Quality Standards as well as the Prevention of Significant Deterioration program. The 1990 FCAA amendments represent a series of federal efforts to

2.0 GREENHOUSE GAS EMISSIONS

regulate the protection of air quality in the United States. The FCAA allows states to adopt more stringent standards or to include other pollution species.

The U.S. Supreme Court in *Massachusetts et al. v. Environmental Protection Agency*, 549 U.S. 497 (2007), held that the USEPA has the authority to regulate motor-vehicle GHG emissions under the FCAA. The Supreme Court held that the USEPA Administrator must determine whether emissions of GHGs from new motor vehicles cause or contribute to air pollution which may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision.

The USEPA publishes an annual GHG inventory (Inventory of U.S. Greenhouse Gas Emissions and Sinks),¹ which tracks the national trend in GHG emissions and removals back to 1990. The report contains total national emissions by source, economic sector, and GHG. The USEPA uses national energy data, data on national agricultural activities, and other national statistics to provide a comprehensive accounting of total GHG emissions for all man-made sources in the country. It also collects GHG emissions data from individual facilities and suppliers of certain fossil fuels and industrial gases through the Greenhouse Gas Reporting Program.

In May 2010, the USEPA and the Department of Transportation's National Highway Traffic Safety Administration (NHTSA) published the final rule-making for a national program that would reduce GHG emissions and improve fuel economy for new cars and trucks sold in the United States. The standards for the first phase of this national program apply to passenger cars, light-duty trucks, and medium-duty passenger vehicles, covering model years 2012 through 2016. They require these vehicles to meet an estimated combined average emissions level of 250 grams of carbon dioxide (CO₂) per mile, equivalent to 35.5 miles per gallon (mpg), if the automobile industry were to meet this CO₂ level solely through fuel economy improvements. Together, these standards are projected to cut GHG emissions by an estimated 960 million metric tons and 1.8 billion barrels of oil over the lifetime of the vehicles sold under the program (model years 2012-2016).

In October 2012, USEPA and NHTSA published the final rule-making for the second phase of the national program, which covers model years 2017 through 2025. The final standards are projected to result in an average industry fleetwide level of 163 grams of CO₂ per mile, equivalent to 54.5 MPG, if the automobile industry were to meet this CO₂ level solely through fuel economy improvements. The USEPA does not regulate residential sources of GHG emissions.

Executive Order 13963

Executive Order (EO) 13693, Planning for Federal Sustainability in the Next Decade, signed in 2015, seeks to maintain federal leadership in sustainability and greenhouse gas emission reductions. Its goal is to reduce agency Scope 1 and 2 GHG emissions² by at least 40 percent by 2025, foster innovation, reduce spending, and strengthen communities through increased efficiency and improved environmental performance. Sustainability goals are set for building efficiency and management, energy portfolio, water use efficiency, fleet efficiency, sustainable acquisition and supply chain greenhouse gas management, pollution prevention, and electronic stewardship.

¹ A greenhouse gas "sink" is a process, activity, or mechanism that absorbs more greenhouse gases than it releases.

² In GHG inventories, direct emissions are Scope 1; indirect emissions from consumption of purchased electricity, heat or steam are Scope 2; and other indirect emissions (such as extraction and production of purchased materials and fuels, transport in vehicles not controlled by the reporting entity, outsourced activities) are Scope 3.

State

The California Air Resources Board (CARB) is responsible for the coordination and oversight of State and local air pollution control programs in California. Various statewide and local initiatives to reduce California's contribution to GHG emissions have raised awareness about climate change and its potential for severe long-term adverse environmental, social, and economic effects. California is a significant emitter of carbon dioxide equivalents (CO₂e) in the world and produced 459 million gross metric tons of CO₂e in 2013. In the State, the transportation sector is the largest emitter of GHGs, followed by industrial operations such as manufacturing and oil and gas extraction.

California Global Warming Solutions Act (Assembly Bill 32)

The California Global Warming Solutions Act of 2006 (Assembly Bill [AB] 32) (Health and Safety Code Sections 38500, 38501, 38510, 38530, 38550, 38560, 38561–38565, 38570, 38571, 38574, 38580, 38590, 38592–38599) instructs the CARB to develop and enforce regulations for the reporting and verification of statewide GHG emissions. AB 32 directed CARB to set a GHG emissions limit based on 1990 levels, to be achieved by 2020. It set a timeline for adopting a scoping plan for achieving GHG reductions in a technologically and economically feasible manner.

CARB Scoping Plan

CARB adopted the Scoping Plan to achieve the goals of AB 32. The Scoping Plan establishes an overall framework for the measures that would be adopted to reduce California's GHG emissions. CARB determined that achieving the 1990 emissions level would require a reduction of GHG emissions of approximately 29 percent below what would otherwise occur in 2020 in the absence of new laws and regulations (referred to as "business-as-usual")³. The Scoping Plan evaluates opportunities for sector-specific reductions; integrates early actions by CARB and the State's Climate Action Team and additional GHG reduction measures by both entities; identifies additional measures to be pursued as regulations; and outlines the adopted role of a cap-and-trade program.⁴ Additional development of these measures and adoption of the appropriate regulations occurred through the end of 2013. Key elements of the Scoping Plan include:

- Expanding and strengthening existing energy efficiency programs, as well as building and appliance standards.
- Achieving a statewide renewables energy mix of 33 percent by 2020.
- Developing a California cap-and-trade program that links with other programs to create a regional market system and caps sources contributing 85 percent of California's GHG emissions (adopted in 2011).
- Establishing targets for transportation-related GHG emissions for regions throughout California, and pursuing policies and incentives to achieve those targets (several Sustainable Communities Strategies have been adopted).

³ CARB defines business-as-usual (BAU) in its Scoping Plan as emissions levels that would occur if California continued to grow and add new GHG emissions but did not adopt any measures to reduce emissions. Projections for each emission-generating sector were compiled and used to estimate emissions for 2020 based on 2002–2004 emissions intensities. Under CARB's definition of BAU, new growth is assumed to have the same carbon intensities as was typical from 2002 through 2004.

⁴ The Climate Action Team, led by the secretary of the California Environmental Protection Agency, is a group of State agency secretaries and heads of agencies, boards, and departments. Team members work to coordinate statewide efforts to implement global warming emissions reduction programs and the State's Climate Adaptation Strategy.

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- Adopting and implementing measures pursuant to existing State laws and policies, including California's clean car standards, heavy-duty truck measures, the Low Carbon Fuel Standard (amendments to the Pavley Standard adopted 2009; Advanced Clean Car standard adopted 2012), goods movement measures, and the Low Carbon Fuel Standard (adopted 2009).
- Creating targeted fees, including a public goods charge on water use, fees on gasses with high global warming potential, and a fee to fund the administrative costs of the State of California's long-term commitment to AB 32 implementation (CARB 2008).

In 2012, CARB released revised estimates of the expected 2020 emissions reductions. The revised analysis relied on emissions projections updated in light of current economic forecasts that accounted for the economic downturn since 2008, reduction measures already approved and put in place relating to future fuel and energy demand, and other factors. This update reduced the projected 2020 emissions from 596 million metric tons of CO₂e (MMT_{CO₂e}) to 545 MMT_{CO₂e}. The reduction in forecasted 2020 emissions means that the revised business-as-usual reduction necessary to achieve AB 32's goal of reaching 1990 levels by 2020 is now 21.7 percent, down from 29 percent. CARB also provided a lower 2020 inventory forecast that incorporated State-led GHG emissions reduction measures already in place. When this lower forecast is considered, the necessary reduction from business-as-usual needed to achieve the goals of AB 32 is approximately 16 percent.

CARB adopted the first major update to the Scoping Plan on May 22, 2014. The updated Scoping Plan summarizes the most recent science related to climate change, including anticipated impacts to California and the levels of GHG emissions reductions necessary to likely avoid risking irreparable damage. It identifies the actions California has already taken to reduce GHG emissions and focuses on areas where further reductions could be achieved to help meet the 2020 target established by AB 32. The Scoping Plan update also looks beyond 2020 toward the 2050 goal established in Executive Order (EO) S-3-05, although not yet adopted as State law, and observes that "a mid-term statewide emission limit will ensure that the State stays on course to meet our long-term goal."⁵ The Scoping Plan update does not establish or propose any specific post-2020 goals, but identifies such goals adopted by other governments or recommended by various scientific and policy organizations. EO B-30-15 (signed April 29, 2015) endorses the effort to set interim GHG reduction targets for 2030 (40 percent below 1990 levels).⁶

Amendments to California Global Warming Solutions Act of 2006: Emission Limit (Senate Bill 32)

Signed into law in September 2016, Senate Bill (SB) 32 codifies the 2030 target in EO B-30-15. SB 32 authorizes the State board to adopt an interim GHG emissions level target to be achieved by 2030. The bill states that the intent is for the legislature and appropriate agencies to adopt complementary policies which ensure that the long-term emissions reductions advance specified

⁵ Executive Order S-3-05 set forth a series of GHG emissions reduction targets that consist of reducing GHG emissions to 2000 levels by 2010; reducing GHG emissions to 1990 levels by 2020; and reducing GHG emissions to 80 percent below 1990 levels by 2050.

⁶ Executive Order B-30-15, which was issued in April 2015, requires statewide GHG emissions to be reduced 40 percent below 1990 levels by 2030. Senate Bill 32 (SB 32), signed into law in September 2016, codifies the 2030 GHG reduction target in Executive Order B-30-15. The bill authorizes CARB to adopt an interim GHG emissions level target to be achieved by 2030. CARB also must adopt rules and regulations in an open public process to achieve the maximum, technologically feasible, and cost-effective GHG reductions.

criteria. CARB is directed to update the Scoping Plan to provide guidance for compliance with SB 32. The next updated Scoping Plan is expected to be adopted in 2017.

Table 2, California State Climate Change Legislation, provides a brief overview of other California legislation relating to climate change that may affect emissions associated with the proposed project.

**TABLE 2
CALIFORNIA STATE CLIMATE CHANGE LEGISLATION**

Legislation	Description
Assembly Bill 1493 and Advanced Clean Cars Program	Assembly Bill 1493 (“the Pavley Standard”) (Health and Safety Code Sections 42823 and 43018.5) aims to reduce GHG emissions from noncommercial passenger vehicles and light-duty trucks of model years 2009–2016 and the second set of emissions standards covers model years 2017 to 2025. By 2025, when all rules will be fully implemented, new automobiles will emit 34 percent fewer CO _{2e} emissions and 75 percent fewer smog-forming emissions.
Low Carbon Fuel Standard	Executive Order S-01-07 (2007) requires a 10 percent or greater reduction in the average fuel carbon intensity for transportation fuels in California. The regulation took effect in 2010 and is codified at Title 17, California Code of Regulations, Sections 95480–95490. The Low Carbon Fuel Standard will reduce GHG emissions by reducing the carbon intensity of transportation fuels used in California by at least 10 percent by 2020.
Renewables Portfolio Standard (Senate Bill X1-2 & Senate Bill 350)	California’s Renewables Portfolio Standard (RPS) requires retail sellers of electric services to increase procurement from eligible renewable energy resources to 33 percent of total retail sales by 2020. The 33 percent standard is consistent with the RPS goal established in the Scoping Plan. The passage of Senate Bill 350 in 2015 updates the RPS to require the amount of electricity generated and sold to retail customers per year from eligible renewable energy resources to be increased to 50 percent by December 31, 2030. The bill will make other revisions to the RPS program and to certain other requirements on public utilities and publicly owned electric utilities.
Senate Bill 375*	SB 375 took effect in 2008 and provides a new planning process to coordinate land use planning, regional transportation plans, and funding priorities to help California meet the GHG reduction goals established in AB 32. SB 375 requires metropolitan planning organizations (MPO) to incorporate a sustainable communities strategy (SCS) in their regional transportation plans that will achieve GHG emissions reduction targets by reducing vehicle miles traveled from light-duty vehicles through the development of more compact, complete, and efficient communities. CARB adopted per capita reduction targets for each MPO rather than a total magnitude reduction target. The Southern California Association of Government’s (SCAG) targets are an 8 percent per capita reduction from 2005 GHG emission levels by 2020 and a 13 percent per capita reduction from 2005 GHG emission levels by 2035. SB 375 requires CARB to periodically update the targets, no later than every 8 years. CARB is in the process of updating targets, with the intent to make them effective in 2018. SCSs adopted in 2018 would be subject to the updated targets.
California Building Energy Efficiency Standards	In general, the California Building Energy Efficiency Standards require the design of building shells and building components to conserve energy. The California Energy Commission adopted changes to the 2016 Building Energy Efficiency Standards contained in the California Code of Regulations, Title 24, Part 6 (also known as the California Energy Code) and associated administrative regulations in Part 1. The amended standards took effect on July 1, 2017. Under the 2016 Standards, residential buildings are 28 percent more energy efficient than the 2013 Standards, and nonresidential buildings are 5 percent more energy efficient than the 2013 Standards. The 2016 standards will not achieve zero net energy. However, they get very close to the State’s goal and make important steps toward changing residential building practices in California. The 2019 standards are intended to achieve zero net energy for newly constructed residential buildings throughout California.

2.0 GREENHOUSE GAS EMISSIONS

**TABLE 2
CALIFORNIA STATE CLIMATE CHANGE LEGISLATION**

Legislation	Description
California Green Building Standards	The California Green Building Standards Code (California Code of Regulations, Title 24, Part 11), commonly referred to as the CALGreen Code, is a statewide mandatory construction code developed and adopted by the California Building Standards Commission and the Department of Housing and Community Development. The CALGreen standards require new residential and commercial buildings to comply with mandatory measures under the topics of planning and design, energy efficiency, water efficiency/conservation, material conservation and resource efficiency, and environmental quality. CALGreen also provides voluntary tiers and measures that local governments may adopt that encourage or require additional measures in the five green building topics. The most recent update to the CALGreen Code went into effect January 1, 2017.

**Senate Bill 375 is codified at Government Code Sections 65080, 65400, 65583, 65584.01, 65584.02, 65584.04, 65587, 65588, 14522.1, 14522.2, and 65080.01, as well as at Public Resources Code Sections 21061.3 and 21159.28 and Chapter 4.2.*

Local

City of Newport Beach Energy Action Plan (2013)

The City of Newport Beach is aiming to reduce its energy consumption and GHG emissions to become a more sustainable community. The main goal of the Energy Action Plan (EAP) is to provide a roadmap for the City of Newport Beach to reduce GHG through reductions in energy used in facility buildings and operations. The EAP identifies past energy measures that have been implemented and present measures that currently are in that process, all of which will contribute to the energy reduction goal. In addition, the EAP identifies other potential energy reduction measures that the City will consider for future implementation.

Southern California Association of Governments Regional Transportation Plan/ Sustainable Communities Strategy (2016)

SB 375 requires the metropolitan planning organizations (MPO) to prepare a Sustainable Communities Strategy (SCS) in their regional transportation plan. On April 7, 2016, the Southern California Association of Governments (SCAG) Regional Council adopted the *2016-2040 Regional Transportation Plan/ Sustainable Communities Strategy* (2016 RTP/SCS). The 2016 RTP/SCS outlines how to closely integrate land use and transportation so that the region can grow smartly and sustainably. The 2016 RTP/SCS is a long-range visioning plan that balances future mobility and housing needs with economic, environmental and public health goals. The SCAG region must achieve specific federal air quality standards and is required by State law to lower regional GHG emissions. Pursuant to the 2016-2040 RTP/SCS, SCAG anticipates lowering GHG emissions below 2005 levels by 8 percent by 2020, 18 percent by 2035, and 21 percent by 2040. Land use strategies to achieve the region's targets include planning for new growth around High Quality Transit Areas, Livable Corridors, and creating Neighborhood Mobility Areas to integrate land use and transportation and plan for more active lifestyles.

2.3 GREENHOUSE GAS EMISSIONS IMPACT ASSESSMENT

The State of California has adopted various administrative initiatives and legislation relating to climate change, much of which set aggressive goals for GHG emissions reductions statewide. Although lead agencies must evaluate climate change and GHG emissions of projects subject to CEQA, the CEQA Guidelines do not require or suggest specific methodologies for performing an

assessment or specific thresholds of significance and do not specify GHG reduction mitigation measures. Instead, the guidelines allow lead agencies to choose methodologies and make significance determinations based on substantial evidence, as discussed in further detail below. No State agency has promulgated binding regulations for analyzing GHG emissions, determining their significance, or mitigating significant effects in CEQA documents. Thus, lead agencies exercise their discretion in determining how to analyze GHGs.

Addressing GHG emissions generation impacts requires an agency to make a determination as to what constitutes a significant impact. The amendments to the CEQA Guidelines specifically allow lead agencies to determine thresholds of significance that illustrate the extent of an impact and are a basis from which to apply mitigation measures. This means that each agency is left to determine whether a project's GHG emissions would have a "significant" impact on the environment. The guidelines direct that agencies are to use "careful judgment" and "make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate" the project's GHG emissions (14 California Code of Regulations Section 15064.4(a)).

A number of expert agencies throughout the state have drafted or adopted varying threshold approaches and guidelines for analyzing 2020 operational GHG emissions in CEQA documents. The different thresholds include (1) compliance with a qualified GHG reduction strategy, (2) performance-based reductions, (3) numeric bright-line thresholds, and (4) efficiency-based thresholds. The California Supreme Court decision in the Centers for Biological Diversity et al. v. California Department of Fish and Wildlife, the Newhall Land and Farming Company (November 30, 2015, Case No. S217763) (hereafter Newhall Ranch) (AEP 2016) confirmed that when an "agency chooses to rely completely on a single quantitative method to justify a no-significance finding, CEQA demands the agency research and document the quantitative parameters essential to that method."

The court also opined in a footnote to its decision that an agency needs to "consider the project's effects on meeting longer term emissions reduction targets" (i.e., post-2020). The topic of whether a GHG emissions analysis must conform to the 2050 reduction target (40 percent of 1990 emissions by 2030 and 80 percent of 1990 emissions by 2050) expressed in Governor Brown's Executive Order B-30-15 and Governor Schwarzenegger's Executive Order S-03-05 is currently before the Supreme Court in the Cleveland National Forest Foundation v. San Diego Association of Governments. The Supreme Court also opined in a footnote to its decision that an agency needs to "consider the project's effects on meeting longer term emissions reduction targets" (i.e., post-2020). The topic of whether a GHG emissions analysis must conform to the 2050 reduction target (40 percent of 1990 emissions by 2030 and 80 percent of 1990 emissions by 2050) expressed in Governor Brown's EO B-30-15 and Governor Schwarzenegger's EO S-03-05 is currently before the Supreme Court in the Cleveland National Forest Foundation v. San Diego Association of Governments (hereafter SANDAG) case; oral arguments occurred in May 2017.

As noted earlier, AB 32 is a legal mandate requiring that statewide GHG emissions be reduced to 1990 levels by 2020 and efficiency-based thresholds represent the rate of emission reductions needed to achieve a fair share of California's GHG emissions reduction target established under AB 32. In adopting AB 32, the legislature determined the necessary GHG reductions for the State to make in order to sufficiently offset its contribution to the cumulative climate change problem to reach 1990 levels. AB 32 is the only legally mandated requirement for the reduction of greenhouse gases. As such, compliance with AB 32 is the current adopted basis upon which an agency can base its significance threshold for evaluating a project's GHG impacts. However, it is acknowledged that EOs 5-03-05 and B-30-15, SB 375, and proposed legislation will ultimately result in GHG emissions reduction targets for 2030, 2040, and 2050.

2.0 GREENHOUSE GAS EMISSIONS

On September 28, 2010, the South Coast Air Quality Management District (SCAQMD) recommended an interim screening level numeric bright-line threshold of 3,000 metric tons of CO₂e annually and an efficiency-based threshold of 4.8 metric tons of CO₂e per service population (residents plus employees) per year in 2020 and 3.0 metric tons of CO₂e per service population per year in 2035. These efficiency-based thresholds were developed as part of the SCAQMD GHG CEQA Significance Threshold Working Group. The working group was formed to assist the SCAQMD's efforts to develop a GHG significance threshold and is composed of a wide variety of stakeholders. The numeric bright line and efficiency-based thresholds were developed to be consistent with CEQA requirements for developing significance thresholds, are supported by substantial evidence, and provide guidance to CEQA practitioners and lead agencies with regard to determining whether GHG emissions from a proposed project are significant.

For the purposes of this evaluation, the Proposed Project is first compared to the SCAQMD interim screening level numeric bright-line threshold of 3,000 metric tons of CO₂e annually. If it is determined that the Proposed Project is estimated to exceed this screening threshold, it is then compared to the SCAQMD-recommended efficiency-based threshold of 4.8 metric tons of CO₂e per service population per year in 2020. In addition, the SCAQMD-recommended threshold of 3.0 metric tons of CO₂e per service population per year in 2035 is used to assess a project's impacts to the post-2020 GHG reduction goals in California, identified in Governor's EO B-30-15 (2015), which seeks to achieve a reduction of GHG emissions of 40 percent below 1990 levels by 2030, and EO 5-03-05 (2005), which seeks to achieve a reduction of GHG emissions of 80 percent below 1990 levels by 2050. Compliance with the SCAQMD's 2035 significance threshold is an appropriate indicator as to whether a project would inhibit post-2020 GHG emissions reduction targets set by the State of California. Existing emissions modeling software cannot project emissions beyond 2035. Potential impacts were assessed in accordance with methodologies recommended by the SCAQMD. Where quantification was required, emissions were modeled using the California Emissions Estimator Model (CalEEMod). CalEEMod is a statewide land use emissions computer model designed to quantify potential criteria pollutant emissions associated with both construction and operations from a variety of land use projects.

Methodology

Because of the global nature of climate change, it is generally the case that an individual project is of insufficient magnitude by itself to influence climate change or result in a substantial contribution to the global GHG inventory. GHG impacts are recognized as cumulative impacts. Often, estimates of GHG emissions are presented in carbon dioxide equivalents (CO₂e), which weight each gas by its global warming potential (GWP). Expressing GHG emissions in CO₂e takes the contribution of all GHG emissions to the greenhouse effect and converts them to a single unit equivalent to the effect that would occur if only CO₂ were being emitted.

Generation of Greenhouse Gas Emissions

Construction GHG Emissions

The Proposed Project would result in direct emissions of GHGs from construction activities. The approximate quantity of daily GHG emissions generated by construction equipment associated with the Proposed Project is identified in [Table 3, *Construction-Related Greenhouse Gas Emissions -- Metric Tons per Year*](#). As shown in the table, Project construction would result in the generation of approximately 8,553 metric tons of CO₂e over the course of construction. Once construction is complete, the generation of these GHG emissions would cease. The SCAQMD recommends that construction emissions be amortized over a 30-year project lifetime. Therefore, projected GHGs

from construction have been quantified and amortized over 30 years. The amortized construction emissions are added to the annual average operational emissions.

**TABLE 3
CONSTRUCTION-RELATED GREENHOUSE GAS EMISSIONS – METRIC TONS PER YEAR**

Construction Year	CO ₂ e
2018	1,142
2019	2,058
2020	1,555
2021	2,872
2022	926
Total Construction	8,553

Source: CalEEMod version 2016.3.1. Refer to Appendix A for Model Data Outputs.

Operational GHG Emissions

Table 4, *Project Greenhouse Gas Emissions – Project Operation – Metric Tons per Year*, summarizes the GHG emissions associated with proposed project operations. As shown, the project would result in the generation of approximately 1,938 metric tons of CO₂e annually.

**TABLE 4
GREENHOUSE GAS EMISSIONS – PROJECT OPERATION – METRIC TONS PER YEAR**

Emissions Source	CO ₂ e
Construction Amortized over 30 Years	285
Area Source	61
Energy	163
Mobile	1,282
Waste	31
Water & Wastewater	116
Total	1,938
SCAQMD Bright-line threshold	3,000
Exceeds threshold?	No

Source: CalEEMod version 2016.3.1. Refer to Appendix A for Model Data Outputs.

As shown in [Table 4](#), the SCAQMD’s interim screening level numeric bright-line threshold of 3,000 metric tons of CO₂e annually is not exceeded. The Proposed Project’s cumulative contribution to GHG emissions is less than significant. In addition, Project Design Feature (PDF) 1 identifies that the Applicant will pursue a Leadership in Energy and Environmental Design (LEED) Silver Certification for the Project. Additional efficiency features include the use of landscape irrigation systems with weather sensors, timers, and low-flow irrigation devices to further reduce the overall water use in the community. Non-potable water would be used for all site irrigation. No mitigation measures are required.

Conflict with Applicable Greenhouse Gas Reduction Plan

City of Newport Beach Energy Action Plan

The City of Newport Beach is aiming to reduce its energy consumption and GHG emissions to become a more sustainable community and to meet the goals of AB 32. The EAP outlines various

2.0 GREENHOUSE GAS EMISSIONS

measures and strategizes numerous methods on how the City's long term vision can be achieved. Key goals of this EAP are highlighted in the list below.

- Meet and exceed AB 32 energy reduction goals;
- Be an example for energy efficiency and sustainability at City facilities;
- Continue interacting, educating, and informing the community about energy efficiency and greenhouse gas emissions;
- Explore the newest "green" technologies and methods to decrease future energy dependency;
- Explore renewable energy recourses (not limited to solar) and possible financing based on available grants/rebates;
- Enhance energy efficiency and operations in existing buildings through systematic commissioning strategies or independent energy efficiency studies;
- Evaluate all the suggested energy efficiency action measures presented in this EAP, establish a priority for implementation, and determine possible funding sources.

The Proposed Project would be consistent with the City's EAP. Therefore, the project is consistent with AB 32, which aims to decrease emissions statewide to 1990 levels by the year 2020. Potential impacts are considered less than significant.

Southern California Association of Governments 2016–2040 Regional Transportation Plan/Sustainable Communities Strategy

SCAG's 2016–2040 RTP/SCS establishes GHG emissions goals for automobiles and light-duty trucks for 2020 and 2035 as well as an overall GHG target for the project region consistent with both the target date of AB 32 and the post-2020 GHG reduction goals of EOs 5-03-05 and B-30-15. The 2016 RTP/SCS contains over 4,000 transportation projects, ranging from highway improvements, railroad grade separations, bicycle lanes, new transit hubs and replacement bridges. These future investments were included in county plans developed by the six county (Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura) transportation commissions and seek to reduce traffic bottlenecks, improve the efficiency of the region's network, and expand mobility choices. The RTP/SCS is an important planning document for the region, allowing project sponsors to qualify for federal funding. The plan takes into account operations and maintenance costs to ensure reliability, longevity and cost effectiveness.

In addition, the RTP/SCS is supported by a combination of transportation and land use strategies that help the region achieve state GHG emissions reduction goals and FCAA requirements, preserve open space areas, improve public health and roadway safety, support our vital goods movement industry, and utilize resources more efficiently. As shown above in [Table 4](#), GHG emissions resulting from development-related mobile sources are the most potent source of emissions, and therefore project comparison to the RTP/SCS is an appropriate indicator of whether the proposed project would inhibit the post-2020 GHG reduction goals promulgated by the state. The project is consistent with the General Plan land use designations for the site and therefore consistent with the RTP/SCS. In addition, the project is consistent with regional strategies to reduce passenger vehicle miles traveled. The project is within a major employment center and is proximate to several major employers within Orange County (e.g., University of California Irvine,

Allergan, Pacific Life, Ingram Micro, etc.). Orange County is traditionally jobs-rich. A major transit stop along Jamboree Avenue connects the project to major employment within the Irvine Business Complex and the iShuttle. Increasing residential land uses near major employment centers is a key strategy to reducing regional VMT. Therefore, in addition to generating a net reduction in GHG emissions, the project would be consistent with regional goals to reduce trips and VMT.

The Proposed Project’s consistency with the RTP/SCS goals is analyzed in detail in Table 5, Consistency with SCAG’s Regional Transportation Plan/Sustainable Communities Strategy Goals. As shown in Table 5, the project would not conflict with the stated goals of the RTP/SCS. For these reasons, the proposed project would not interfere with SCAG’s ability to achieve the region’s post-2020 mobile source GHG reduction targets outlined in the 2016 RTP/SCS. Potential impacts are considered less than significant and no mitigation is required.

**TABLE 5
REGIONAL TRANSPORTATION PLAN/SUSTAINABLE COMMUNITIES STRATEGY CONSISTENCY**

SCAG Goals	Compliance with Goal
GOAL 1: Align the plan investments and policies with improving regional economic development and competitiveness.	Not Applicable: This is not a project-specific policy and is therefore not applicable.
GOAL 2: Maximize mobility and accessibility for all people and goods in the region.	Not Applicable: This is not a transportation improvement project and is therefore not applicable.
GOAL 3: Ensure travel safety and reliability for all people and goods in the region.	Not Applicable: This is not a transportation improvement project and is therefore not applicable.
GOAL 4: Preserve and ensure a sustainable regional transportation system.	Not Applicable: This is not a transportation improvement project and is therefore not applicable.
GOAL 5: Maximize the productivity of our transportation system.	Not Applicable: This is not a transportation improvement project and is therefore not applicable.
GOAL 6: Protect the environment and health of our residents by improving air quality and encouraging active transportation (e.g., bicycling and walking).	Consistent: The reduction of energy use, improvement of air quality, and promotion of more environmentally sustainable development are encouraged through the development of alternative transportation methods, green design techniques for buildings, and other energy-reducing techniques. This development project is required to comply with the provisions of the California Building Energy Efficiency Standards and the Green Building Standards Code (CALGreen). Additionally, the project is located approximately 650 feet from a bus stop, which will encourage alternative forms of transportation.
GOAL 7: Actively encourage and create incentives for energy efficiency, where possible.	Not Applicable: This is not a project-specific policy and is therefore not applicable.
GOAL 8: Encourage land use and growth patterns that facilitate transit and non-motorized transportation.	Consistent: See response to RTP/SCS Goal 6.
GOAL 9: Maximize the security of our transportation system through improved system monitoring, rapid recovery planning, and coordination with other security agencies.	Not Applicable: This is not a transportation improvement project and is therefore not applicable.

2.4 CUMULATIVE SETTING, IMPACTS, AND MITIGATION MEASURES

CUMULATIVE SETTING

Because of the global nature of climate change, most projects will not result in GHG emissions that are individually significant. Therefore, it is accepted as very unlikely that any individual

2.0 GREENHOUSE GAS EMISSIONS

development project or General Plan would have GHG emissions of a magnitude to directly impact global climate change and the impact of the Proposed Project is considered on a cumulative basis. Please refer to the analysis above. The Project's cumulative contribution of GHG emissions would be less than significant and the Project's cumulative GHG impacts would also be less than cumulatively considerable and potential impacts are considered less than significant.

2.5 MITIGATION PROGRAM

Project Design Features

The following Project Design Features (PDFs) are applicable to the reduction of greenhouse gas emissions.

PDF GHG-1 *Building Design.* The Applicant will pursue a Leadership in Energy and Environmental Design (LEED) Silver Certification for the Project. Project features may include the following.

- Bicycle storage and maintenance facility
- Electric vehicle charging stations
- Indoor water use reduction
- Optimized energy performance
- Low emitting materials
- Day lighting
- Enhanced indoor air quality features
- Earth day functions for residents

PDF GHG-3 *Incorporate Efficient Irrigation Design Strategies along with the Use of Reclaimed Water.* Reclaimed water will be used for all Project landscaping including the plazas, public park, and podium outdoor spaces for each of the residential buildings. While complying with the Model Water Efficient Landscape Ordinance in effect at the time of final design, the irrigation design will include the use of efficient irrigation systems. Those may include smart controllers, soil moisture and rain sensors, and source control strategies, all designed to minimize the use of water.

Standard Conditions

SC GHG-1 *Energy Efficiency Standards.* The Project shall be built in accordance with the current California Building Energy Efficiency Standards for residential and nonresidential in effect at the time of building permit application submittal to the City of Newport Beach.

Mitigation Measures

No mitigation is required.

3.0 REFERENCES

3.0 REFERENCES

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APPENDICES

APPENDIX A: CALEEMOD OUTPUT FILES

Koll Center Residences - Orange County, Annual

**Koll Center Residences
Orange County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	490.00	Space	4.41	196,000.00	0
Parking Lot	119.00	Space	1.07	47,600.00	0
City Park	1.00	Acre	1.19	43,560.00	0
Condo/Townhouse High Rise	260.00	Dwelling Unit	3.41	260,000.00	744
Strip Mall	3.00	1000sqft	0.06	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8	Operational Year		2022	
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - Data provided from project.
- Land Use - Acreage adjusted per Project Applicant.
- Construction Phase - Adjusted per Project Applicant.
- Off-road Equipment -
- Off-road Equipment - Adjusted per Project Applicant.
- Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

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Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Paving Equipment

Off-road Equipment -

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Trips and VMT - Vendor trips account for crew and foreman trucks. Soil export to span duration of Phases A, 1, and 2

Demolition -

Grading - Construction export included in project description.

Vehicle Trips - Adjusted per Traffic Report.

Woodstoves - No wood burning devices per Rule 445.

Energy Use -

Construction Off-road Equipment Mitigation - Fugitive Dust mitigation per Rule 403.

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Off-road Equipment - Equipment.

Architectural Coating -

Area Coating - Adjusted to match parking area.

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	14616	25824
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
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tblConstructionPhase	NumDays	300.00	219.00
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tblConstructionPhase	NumDays	300.00	220.00
tblConstructionPhase	NumDays	300.00	21.00
tblConstructionPhase	NumDays	300.00	43.00
tblConstructionPhase	NumDays	300.00	44.00
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tblConstructionPhase	NumDays	30.00	12.00

tblConstructionPhase	NumDays	30.00	152.00
tblConstructionPhase	NumDays	30.00	11.00
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tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblTripsAndVMT	HaulingTripNumber	0.00	570.00
tblTripsAndVMT	HaulingTripNumber	5,302.00	530.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,386.00

tblTripsAndVMT	WorkerTripNumber	309.00	387.00
tblTripsAndVMT	WorkerTripNumber	309.00	387.00
tblTripsAndVMT	WorkerTripNumber	309.00	387.00
tblTripsAndVMT	WorkerTripNumber	25.00	387.00
tblTripsAndVMT	WorkerTripNumber	10.00	77.00
tblTripsAndVMT	WorkerTripNumber	309.00	387.00
tblTripsAndVMT	WorkerTripNumber	309.00	387.00
tblTripsAndVMT	WorkerTripNumber	309.00	387.00
tblTripsAndVMT	WorkerTripNumber	309.00	387.00
tblTripsAndVMT	WorkerTripNumber	309.00	387.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	4.31	4.18
tblVehicleTrips	ST_TR	42.04	44.32
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	3.43	4.18
tblVehicleTrips	SU_TR	20.43	44.32
tblVehicleTrips	WD_TR	1.89	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.4848	4.6221	3.5019	0.0122	0.5157	0.1358	0.6515	0.1365	0.1291	0.2656	0.0000	1,138.3096	1,138.3096	0.1388	0.0000	1,141.7799
2019	0.8830	6.9074	6.6380	0.0222	1.1805	0.2049	1.3854	0.3173	0.2001	0.5174	0.0000	2,054.0400	2,054.0400	0.1460	0.0000	2,057.6899

2020	0.5463	4.6195	4.5070	0.0167	0.9259	0.1083	1.0342	0.2478	0.1034	0.3511	0.0000	1,552.0984	1,552.0984	0.1281	0.0000	1,555.3002
2021	1.3282	10.5193	10.5608	0.0316	1.8731	0.3594	2.2325	0.5624	0.3484	0.9108	0.0000	2,865.8305	2,865.8305	0.2412	0.0000	2,871.8609
2022	0.3365	2.6281	2.8738	0.0100	0.9789	0.0707	1.0496	0.3225	0.0659	0.3884	0.0000	923.2022	923.2022	0.0972	0.0000	925.6310
Maximum	1.3282	10.5193	10.5608	0.0316	1.8731	0.3594	2.2325	0.5624	0.3484	0.9108	0.0000	2,865.8305	2,865.8305	0.2412	0.0000	2,871.8609

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					
2018	0.4848	4.6221	3.5019	0.0122	0.3967	0.1358	0.5325	0.1083	0.1291	0.2373	0.0000	1,138.3092	1,138.3092	0.1388	0.0000	1,141.7795
2019	0.8830	6.9074	6.6380	0.0222	0.9216	0.2049	1.1265	0.2537	0.2001	0.4539	0.0000	2,054.0396	2,054.0396	0.1460	0.0000	2,057.6894
2020	0.5463	4.6195	4.5070	0.0167	0.7197	0.1083	0.8280	0.1977	0.1034	0.3010	0.0000	1,552.0981	1,552.0981	0.1281	0.0000	1,555.2999
2021	1.3282	10.5193	10.5608	0.0316	1.3165	0.3594	1.6759	0.3866	0.3484	0.7349	0.0000	2,865.8293	2,865.8293	0.2412	0.0000	2,871.8598
2022	0.3365	2.6281	2.8738	0.0100	0.6199	0.0707	0.6907	0.1950	0.0659	0.2608	0.0000	923.2019	923.2019	0.0972	0.0000	925.6307
Maximum	1.3282	10.5193	10.5608	0.0316	1.3165	0.3594	1.6759	0.3866	0.3484	0.7349	0.0000	2,865.8293	2,865.8293	0.2412	0.0000	2,871.8598

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	27.39	0.00	23.60	28.07	0.00	18.30	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)
4	10-1-2018	12-31-2018	0.1046	0.1046
11	7-1-2020	9-30-2020	0.1569	0.1569
16	10-1-2021	12-31-2021	2.0729	2.0729
17	1-1-2022	3-31-2022	1.1333	1.1333

		Highest	2.0729	2.0729
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2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1427	0.0796	2.7127	4.5000e-004		0.0188	0.0188		0.0188	0.0188	0.0000	60.5872	60.5872	5.3400e-003	1.0300e-003	61.0277
Energy	0.0197	0.1686	0.0719	1.0800e-003		0.0136	0.0136		0.0136	0.0136	0.0000	1,012.6388	1,012.6388	0.0375	0.0106	1,016.7232
Mobile	0.2704	1.0280	3.6895	0.0152	1.5045	0.0107	1.5151	0.4029	9.8700e-003	0.4128	0.0000	1,398.8777	1,398.8777	0.0547	0.0000	1,400.2441
Waste						0.0000	0.0000		0.0000	0.0000	24.9354	0.0000	24.9354	1.4736	0.0000	61.7764
Water						0.0000	0.0000		0.0000	0.0000	5.4448	113.7066	119.1514	0.5639	0.0142	137.4740
Total	1.4328	1.2761	6.4741	0.0167	1.5045	0.0431	1.5475	0.4029	0.0423	0.4452	30.3802	2,585.8103	2,616.1905	2.1351	0.0258	2,677.2455

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1427	0.0796	2.7127	4.5000e-004		0.0188	0.0188		0.0188	0.0188	0.0000	60.5872	60.5872	5.3400e-003	1.0300e-003	61.0277
Energy	0.0164	0.1399	0.0597	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	905.1731	905.1731	0.0338	9.3200e-003	908.7946
Mobile	0.2533	0.9437	3.2315	0.0130	1.2763	9.2100e-003	1.2855	0.3418	8.5400e-003	0.3503	0.0000	1,195.5963	1,195.5963	0.0475	0.0000	1,196.7832
Waste						0.0000	0.0000		0.0000	0.0000	12.4677	0.0000	12.4677	0.7368	0.0000	30.8882

Water						0.0000	0.0000		0.0000	0.0000	4.3558	96.8734	101.2293	0.4514	0.0114	115.9085
Total	1.4124	1.1631	6.0038	0.0143	1.2763	0.0393	1.3156	0.3418	0.0386	0.3804	16.8235	2,258.2300	2,275.0535	1.2748	0.0217	2,313.4022

	ROG	NOx	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	1.42	8.85	7.26	14.33	15.16	8.73	14.98	15.16	8.63	14.54	44.62	12.67	13.04	40.29	15.64	13.59

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 A: Site Clearing/ Excavation	Demolition	1/1/2018	1/31/2018	5	23	
2	Phase A: Concrete	Grading	2/1/2018	8/31/2018	5	152	
3	Phase A: Rough/ Finish	Building Construction	4/1/2018	9/30/2018	5	130	
4	Phase A: Landscaping/ TCO/ Punchlist	Building Construction	10/1/2018	10/31/2018	5	23	
5	Phase 1: Site Demolition/ Clearing	Demolition	11/1/2018	11/15/2018	5	11	
6	Phase 1: Shoring	Grading	11/16/2018	11/30/2018	5	11	
7	Phase 1: Excavation	Building Construction	12/1/2018	1/31/2019	5	44	
8	Phase 1: Foundation	Building Construction	2/1/2019	3/31/2019	5	41	
9	Phase 1: Structural Concrete	Building Construction	4/1/2019	1/31/2020	5	220	
10	Phase 1: Rough Interior Fit Out	Building Construction	7/1/2019	4/30/2020	5	219	
11	Phase 1: Interior Finish Fit Out	Building Construction	10/1/2019	7/31/2020	5	219	
12	Phase 1: Landscaping/ TCO/ Punchlist	Building Construction	8/1/2020	8/31/2020	5	21	
13	Phase 2: Site Demolition/ Clearing	Demolition	9/1/2020	9/15/2020	5	11	
14	Phase 2: Shoring	Grading	9/16/2020	10/1/2020	5	12	
15	Phase 2: Excavation	Building Construction	10/2/2020	12/1/2020	5	43	
16	Phase 2: Foundation	Building Construction	12/2/2020	2/1/2021	5	44	
17	Phase 2: Structural Concrete	Building Construction	2/2/2021	12/6/2021	5	220	
18	Phase 2: Rough Interior Fit Out	Building Construction	5/2/2021	3/2/2022	5	218	
19	Phase 2: Interior Finish Fit Out	Building Construction	8/4/2021	6/2/2022	5	217	

20	Phase 3: Site Demolition/ Clearing	Demolition	10/1/2021	10/14/2021	5	10
21	Phase 3: Grading	Grading	10/15/2021	2/23/2022	5	94
22	Phase 3: Reconfigure Parking Lot	Paving	2/24/2022	7/5/2022	5	94
23	Phase 2: Landscaping/ TCO/ Punchlist	Building Construction	6/3/2022	7/5/2022	5	23

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.48

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 A: Site Clearing/ Excavation	Air Compressors	1	8.00	78	0.48
Phase A: Site Clearing/ Excavation	Concrete/Industrial Saws	1	8.00	81	0.73
Phase A: Site Clearing/ Excavation	Excavators	1	8.00	158	0.38
Phase A: Site Clearing/ Excavation	Rubber Tired Dozers	0	8.00	247	0.40
Phase A: Site Clearing/ Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 1: Site Demolition/ Clearing	Air Compressors	1	8.00	78	0.48
Phase 1: Site Demolition/ Clearing	Concrete/Industrial Saws	1	8.00	81	0.73
Phase 1: Site Demolition/ Clearing	Excavators	1	8.00	158	0.38
Phase 1: Site Demolition/ Clearing	Pavers	0	8.00	130	0.42
Phase 1: Site Demolition/ Clearing	Paving Equipment	0	8.00	132	0.36
Phase 1: Site Demolition/ Clearing	Rollers	0	8.00	80	0.38
Phase 1: Site Demolition/ Clearing	Rubber Tired Dozers	0	8.00	247	0.40
Phase 1: Site Demolition/ Clearing	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2: Site Demolition/ Clearing	Air Compressors	2	8.00	78	0.48
Phase 2: Site Demolition/ Clearing	Concrete/Industrial Saws	2	8.00	81	0.73
Phase 2: Site Demolition/ Clearing	Excavators	2	8.00	158	0.38
Phase 2: Site Demolition/ Clearing	Rubber Tired Dozers	0	8.00	247	0.40
Phase 2: Site Demolition/ Clearing	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Phase 3: Site Demolition/ Clearing	Concrete/Industrial Saws	1	8.00	81	0.73
Phase 3: Site Demolition/ Clearing	Excavators	3	8.00	158	0.38
Phase 3: Site Demolition/ Clearing	Rubber Tired Dozers	2	8.00	247	0.40
Phase A: Concrete	Air Compressors	1	8.00	78	0.48
Phase A: Concrete	Excavators	0	8.00	158	0.38
Phase A: Concrete	Generator Sets	1	8.00	84	0.74
Phase A: Concrete	Graders	0	8.00	187	0.41
Phase A: Concrete	Off-Highway Trucks	2	8.00	402	0.38
Phase A: Concrete	Rubber Tired Dozers	0	8.00	247	0.40
Phase A: Concrete	Scrapers	0	8.00	367	0.48
Phase A: Concrete	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Phase 1: Shoring	Air Compressors	0	6.00	78	0.48
Phase 1: Shoring	Bore/Drill Rigs	2	8.00	221	0.50
Phase 1: Shoring	Cranes	1	8.00	231	0.29
Phase 1: Shoring	Excavators	0	8.00	158	0.38
Phase 1: Shoring	Graders	0	8.00	187	0.41
Phase 1: Shoring	Rubber Tired Dozers	0	8.00	247	0.40
Phase 1: Shoring	Scrapers	0	8.00	367	0.48
Phase 1: Shoring	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 1: Shoring	Welders	2	8.00	46	0.45
Phase 2: Shoring	Bore/Drill Rigs	3	8.00	221	0.50
Phase 2: Shoring	Cranes	2	8.00	231	0.29
Phase 2: Shoring	Excavators	0	8.00	158	0.38
Phase 2: Shoring	Graders	0	8.00	187	0.41
Phase 2: Shoring	Rubber Tired Dozers	0	8.00	247	0.40
Phase 2: Shoring	Scrapers	0	8.00	367	0.48
Phase 2: Shoring	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2: Shoring	Welders	3	8.00	46	0.45
Phase A: Rough/ Finish	Cranes	0	7.00	231	0.29
Phase A: Rough/ Finish	Excavators	0	8.00	158	0.38

Phase A: Rough/ Finish	Forklifts	0	8.00	89	0.20
Phase A: Rough/ Finish	Generator Sets	0	8.00	84	0.74
Phase A: Rough/ Finish	Graders	0	8.00	187	0.41
Phase A: Rough/ Finish	Other Construction Equipment	1	2.00	49	0.42
Phase A: Rough/ Finish	Rubber Tired Dozers	0	8.00	247	0.40
Phase A: Rough/ Finish	Scrapers	0	8.00	367	0.48
Phase A: Rough/ Finish	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Phase A: Rough/ Finish	Welders	0	8.00	46	0.45
Phase A: Landscaping/ TCO/ Punchlist	Air Compressors	1	8.00	78	0.48
Phase A: Landscaping/ TCO/ Punchlist	Cranes	0	7.00	231	0.29
Phase A: Landscaping/ TCO/ Punchlist	Forklifts	0	8.00	89	0.20
Phase A: Landscaping/ TCO/ Punchlist	Generator Sets	0	8.00	84	0.74
Phase A: Landscaping/ TCO/ Punchlist	Off-Highway Trucks	1	8.00	402	0.38
Phase A: Landscaping/ TCO/ Punchlist	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase A: Landscaping/ TCO/ Punchlist	Welders	0	8.00	46	0.45
Phase 1: Excavation	Cranes	0	7.00	231	0.29
Phase 1: Excavation	Excavators	2	8.00	158	0.38
Phase 1: Excavation	Forklifts	0	8.00	89	0.20
Phase 1: Excavation	Generator Sets	0	8.00	84	0.74
Phase 1: Excavation	Skid Steer Loaders	1	8.00	65	0.37
Phase 1: Excavation	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Phase 1: Excavation	Welders	0	8.00	46	0.45
Phase 1: Foundation	Cement and Mortar Mixers	2	8.00	172	0.42
Phase 1: Foundation	Concrete/Industrial Saws	2	8.00	81	0.73
Phase 1: Foundation	Cranes	1	8.00	231	0.29
Phase 1: Foundation	Forklifts	0	8.00	89	0.20
Phase 1: Foundation	Generator Sets	0	8.00	84	0.74
Phase 1: Foundation	Plate Compactors	2	8.00	8	0.43
Phase 1: Foundation	Pumps	2	8.00	84	0.74
Phase 1: Foundation	Tractors/Loaders/Backhoes	0	7.00	97	0.37

Phase 1: Foundation	Welders	2	8.00	46	0.45
Phase 1: Structural Concrete	Cement and Mortar Mixers	2	8.00	172	0.42
Phase 1: Structural Concrete	Concrete/Industrial Saws	2	8.00	81	0.73
Phase 1: Structural Concrete	Cranes	1	8.00	231	0.29
Phase 1: Structural Concrete	Forklifts	0	8.00	89	0.20
Phase 1: Structural Concrete	Generator Sets	0	8.00	84	0.74
Phase 1: Structural Concrete	Pumps	2	8.00	84	0.74
Phase 1: Structural Concrete	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Phase 1: Structural Concrete	Welders	2	8.00	46	0.45
Phase 1: Rough Interior Fit Out	Cranes	0	7.00	231	0.29
Phase 1: Rough Interior Fit Out	Forklifts	0	8.00	89	0.20
Phase 1: Rough Interior Fit Out	Generator Sets	0	8.00	84	0.74
Phase 1: Rough Interior Fit Out	Other Construction Equipment	1	2.00	49	0.42
Phase 1: Rough Interior Fit Out	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Phase 1: Rough Interior Fit Out	Welders	0	8.00	46	0.45
Phase 1: Interior Finish Fit Out	Cranes	0	7.00	231	0.29
Phase 1: Interior Finish Fit Out	Forklifts	0	8.00	89	0.20
Phase 1: Interior Finish Fit Out	Generator Sets	0	8.00	84	0.74
Phase 1: Interior Finish Fit Out	Other Construction Equipment	1	2.00	49	0.42
Phase 1: Interior Finish Fit Out	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Phase 1: Interior Finish Fit Out	Welders	0	8.00	46	0.45
Phase 1: Landscaping/ TCO/ Punchlist	Air Compressors	1	8.00	78	0.48
Phase 1: Landscaping/ TCO/ Punchlist	Cranes	0	7.00	231	0.29
Phase 1: Landscaping/ TCO/ Punchlist	Forklifts	0	8.00	89	0.20
Phase 1: Landscaping/ TCO/ Punchlist	Generator Sets	0	8.00	84	0.74
Phase 1: Landscaping/ TCO/ Punchlist	Off-Highway Trucks	1	8.00	402	0.38
Phase 1: Landscaping/ TCO/ Punchlist	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 1: Landscaping/ TCO/ Punchlist	Welders	0	8.00	78	0.48
Phase 2: Excavation	Cranes	0	7.00	231	0.29
Phase 2: Excavation	Excavators	4	8.00	158	0.38

Phase 2: Excavation	Forklifts	0	8.00	89	0.20
Phase 2: Excavation	Generator Sets	0	8.00	84	0.74
Phase 2: Excavation	Skid Steer Loaders	2	8.00	65	0.37
Phase 2: Excavation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 2: Excavation	Welders	0	8.00	46	0.45
Phase 2: Foundation	Cement and Mortar Mixers	4	8.00	9	0.56
Phase 2: Foundation	Concrete/Industrial Saws	4	8.00	81	0.73
Phase 2: Foundation	Cranes	2	8.00	231	0.29
Phase 2: Foundation	Forklifts	0	8.00	89	0.20
Phase 2: Foundation	Generator Sets	0	8.00	84	0.74
Phase 2: Foundation	Plate Compactors	4	8.00	8	0.43
Phase 2: Foundation	Pumps	4	8.00	84	0.74
Phase 2: Foundation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Phase 2: Foundation	Welders	4	8.00	46	0.45
Phase 2: Structural Concrete	Cement and Mortar Mixers	4	8.00	9	0.56
Phase 2: Structural Concrete	Concrete/Industrial Saws	4	8.00	81	0.73
Phase 2: Structural Concrete	Cranes	2	8.00	231	0.29
Phase 2: Structural Concrete	Forklifts	0	8.00	89	0.20
Phase 2: Structural Concrete	Generator Sets	0	8.00	84	0.74
Phase 2: Structural Concrete	Pumps	4	8.00	84	0.74
Phase 2: Structural Concrete	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Phase 2: Structural Concrete	Welders	4	8.00	46	0.45
Phase 2: Rough Interior Fit Out	Cranes	0	7.00	231	0.29
Phase 2: Rough Interior Fit Out	Forklifts	0	8.00	89	0.20
Phase 2: Rough Interior Fit Out	Generator Sets	0	8.00	84	0.74
Phase 2: Rough Interior Fit Out	Other Construction Equipment	2	2.00	172	0.42
Phase 2: Rough Interior Fit Out	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Phase 2: Rough Interior Fit Out	Welders	0	8.00	46	0.45
Phase 2: Interior Finish Fit Out	Cranes	0	7.00	231	0.29
Phase 2: Interior Finish Fit Out	Forklifts	0	8.00	89	0.20

Phase 2: Interior Finish Fit Out	Generator Sets	0	8.00	84	0.74
Phase 2: Interior Finish Fit Out	Other Construction Equipment	2	2.00	49	0.42
Phase 2: Interior Finish Fit Out	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Phase 2: Interior Finish Fit Out	Welders	0	8.00	46	0.45
Phase 2: Landscaping/ TCO/ Punchlist	Air Compressors	2	8.00	78	0.48
Phase 2: Landscaping/ TCO/ Punchlist	Cranes	0	7.00	231	0.29
Phase 2: Landscaping/ TCO/ Punchlist	Forklifts	0	8.00	89	0.20
Phase 2: Landscaping/ TCO/ Punchlist	Generator Sets	0	8.00	84	0.74
Phase 2: Landscaping/ TCO/ Punchlist	Off-Highway Trucks	2	8.00	402	0.38
Phase 2: Landscaping/ TCO/ Punchlist	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2: Landscaping/ TCO/ Punchlist	Welders	0	8.00	46	0.45
Phase 3: Grading	Cranes	0	7.00	231	0.29
Phase 3: Grading	Forklifts	0	8.00	89	0.20
Phase 3: Grading	Generator Sets	1	8.00	84	0.74
Phase 3: Grading	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 3: Grading	Welders	0	8.00	46	0.45
Phase 3: Reconfigure Parking Lot	Air Compressors	1	6.00	78	0.48
Phase 3: Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 3: Reconfigure Parking Lot	Pavers	1	8.00	130	0.42
Phase 3: Reconfigure Parking Lot	Rollers	1	8.00	80	0.38
Phase 3: Reconfigure Parking Lot	Paving Equipment	1	8.00	132	0.36
Phase 3: Grading	Excavators	2	8.00	158	0.38
Phase 3: Grading	Graders	1	8.00	187	0.41
Phase 3: Grading	Scrapers	2	8.00	367	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase A: Site Clearing/Excavation	5	13.00	0.00	39.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1: Site Demolition/Clearing	5	13.00	1.00	88.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Phase 2: Site Demolition/ Clearing	10	25.00	2.00	69.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3: Site Demolition/ Clearing	6	15.00	0.00	38.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase A: Concrete	4	10.00	1.00	3,017.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1: Shoring	6	15.00	1.00	650.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2: Shoring	10	25.00	3.00	530.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase A: Rough/ Finish	1	387.00	114.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase A: Landscaping/ TCO/ Punchlist	3	387.00	107.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1: Excavation	5	387.00	107.00	2,925.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1: Foundation	11	387.00	106.00	2,925.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1: Structural Concrete	9	387.00	106.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1: Rough Interior Fit Out	1	387.00	114.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1: Interior Finish Fit Out	1	387.00	114.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1: Landscaping/ TCO/ Punchlist	3	387.00	108.00	570.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2: Excavation	10	387.00	108.00	2,386.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2: Foundation	22	387.00	106.00	2,386.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2: Structural Concrete	18	387.00	106.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2: Rough Interior Fit Out	2	387.00	122.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2: Interior Finish Fit Out	2	387.00	122.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2: Landscaping/ TCO/ Punchlist	6	387.00	110.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3: Grading	10	387.00	106.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3: Reconfigure Parking Lot	4	77.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Phase A: Site Clearing/ Excavation - 2018

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					4.2300e-003	0.0000	4.2300e-003	6.4000e-004	0.0000	6.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.1719	0.1627	2.5000e-004		0.0114	0.0114		0.0109	0.0109	0.0000	22.0448	22.0448	4.5700e-003	0.0000	22.1591
Total	0.0200	0.1719	0.1627	2.5000e-004	4.2300e-003	0.0114	0.0156	6.4000e-004	0.0109	0.0116	0.0000	22.0448	22.0448	4.5700e-003	0.0000	22.1591

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	6.2900e-003	1.4300e-003	2.0000e-005	3.3000e-004	2.0000e-005	3.6000e-004	9.0000e-005	2.0000e-005	1.2000e-004	0.0000	1.5302	1.5302	1.6000e-004	0.0000	1.5342
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	5.1000e-004	5.5800e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5074	1.5074	4.0000e-005	0.0000	1.5084
Total	8.5000e-004	6.8000e-003	7.0100e-003	4.0000e-005	1.9700e-003	3.0000e-005	2.0100e-003	5.3000e-004	3.0000e-005	5.7000e-004	0.0000	3.0376	3.0376	2.0000e-004	0.0000	3.0427

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
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Category	tons/yr										MT/yr					
Fugitive Dust					1.8100e-003	0.0000	1.8100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.1719	0.1627	2.5000e-004		0.0114	0.0114		0.0109	0.0109	0.0000	22.0448	22.0448	4.5700e-003	0.0000	22.1591
Total	0.0200	0.1719	0.1627	2.5000e-004	1.8100e-003	0.0114	0.0132	2.7000e-004	0.0109	0.0112	0.0000	22.0448	22.0448	4.5700e-003	0.0000	22.1591

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	6.2900e-003	1.4300e-003	2.0000e-005	2.7000e-004	2.0000e-005	2.9000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.5302	1.5302	1.6000e-004	0.0000	1.5342
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	5.1000e-004	5.5800e-003	2.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.5074	1.5074	4.0000e-005	0.0000	1.5084
Total	8.5000e-004	6.8000e-003	7.0100e-003	4.0000e-005	1.5400e-003	3.0000e-005	1.5700e-003	4.3000e-004	3.0000e-005	4.6000e-004	0.0000	3.0376	3.0376	2.0000e-004	0.0000	3.0427

3.3 Phase A: Concrete - 2018

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					1.3600e-003	0.0000	1.3600e-003	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1862	1.7813	1.1113	2.8100e-003		0.0814	0.0814		0.0777	0.0777	0.0000	252.1723	252.1723	0.0626	0.0000	253.7382

Total	0.1862	1.7813	1.1113	2.8100e-003	1.3600e-003	0.0814	0.0827	2.1000e-004	0.0777	0.0779	0.0000	252.1723	252.1723	0.0626	0.0000	253.7382
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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	0.0132	0.4869	0.1103	1.1800e-003	0.0259	1.8900e-003	0.0278	7.0900e-003	1.8100e-003	8.9000e-003	0.0000	118.3709	118.3709	0.0126	0.0000	118.6857
Vendor	3.1000e-004	9.2500e-003	2.5500e-003	2.0000e-005	4.8000e-004	7.0000e-005	5.5000e-004	1.4000e-004	6.0000e-005	2.0000e-004	0.0000	1.8722	1.8722	1.7000e-004	0.0000	1.8764
Worker	3.4500e-003	2.6100e-003	0.0284	8.0000e-005	8.3400e-003	6.0000e-005	8.4000e-003	2.2200e-003	5.0000e-005	2.2700e-003	0.0000	7.6632	7.6632	2.0000e-004	0.0000	7.6683
Total	0.0169	0.4987	0.1412	1.2800e-003	0.0347	2.0200e-003	0.0367	9.4500e-003	1.9200e-003	0.0114	0.0000	127.9063	127.9063	0.0130	0.0000	128.2304

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-004	0.0000	5.8000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1862	1.7813	1.1113	2.8100e-003		0.0814	0.0814		0.0777	0.0777	0.0000	252.1720	252.1720	0.0626	0.0000	253.7379
Total	0.1862	1.7813	1.1113	2.8100e-003	5.8000e-004	0.0814	0.0819	9.0000e-005	0.0777	0.0778	0.0000	252.1720	252.1720	0.0626	0.0000	253.7379

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	0.0132	0.4869	0.1103	1.1800e-003	0.0208	1.8900e-003	0.0227	5.8400e-003	1.8100e-003	7.6500e-003	0.0000	118.3709	118.3709	0.0126	0.0000	118.6857
Vendor	3.1000e-004	9.2500e-003	2.5500e-003	2.0000e-005	3.9000e-004	7.0000e-005	4.6000e-004	1.2000e-004	6.0000e-005	1.8000e-004	0.0000	1.8722	1.8722	1.7000e-004	0.0000	1.8764
Worker	3.4500e-003	2.6100e-003	0.0284	8.0000e-005	6.4600e-003	6.0000e-005	6.5200e-003	1.7500e-003	5.0000e-005	1.8100e-003	0.0000	7.6632	7.6632	2.0000e-004	0.0000	7.6683
Total	0.0169	0.4987	0.1412	1.2800e-003	0.0276	2.0200e-003	0.0297	7.7100e-003	1.9200e-003	9.6400e-003	0.0000	127.9063	127.9063	0.0130	0.0000	128.2304

3.4 Phase A: Rough/ Finish - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.8900e-003	0.0311	0.0327	3.0000e-005		2.6500e-003	2.6500e-003		2.4400e-003	2.4400e-003	0.0000	2.9373	2.9373	9.1000e-004	0.0000	2.9601
Total	6.8900e-003	0.0311	0.0327	3.0000e-005		2.6500e-003	2.6500e-003		2.4400e-003	2.4400e-003	0.0000	2.9373	2.9373	9.1000e-004	0.0000	2.9601

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0306	0.9022	0.2490	1.8600e-003	0.0467	6.5900e-003	0.0532	0.0135	6.3000e-003	0.0198	0.0000	182.5429	182.5429	0.0164	0.0000	182.9527
Worker	0.1142	0.0864	0.9391	2.8100e-003	0.2762	1.8600e-003	0.2780	0.0733	1.7100e-003	0.0751	0.0000	253.6422	253.6422	6.7400e-003	0.0000	253.8106
Total	0.1447	0.9886	1.1880	4.6700e-003	0.3228	8.4500e-003	0.3313	0.0868	8.0100e-003	0.0948	0.0000	436.1850	436.1850	0.0231	0.0000	436.7633

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	6.8900e-003	0.0311	0.0327	3.0000e-005		2.6500e-003	2.6500e-003		2.4400e-003	2.4400e-003	0.0000	2.9373	2.9373	9.1000e-004	0.0000	2.9601
Total	6.8900e-003	0.0311	0.0327	3.0000e-005		2.6500e-003	2.6500e-003		2.4400e-003	2.4400e-003	0.0000	2.9373	2.9373	9.1000e-004	0.0000	2.9601

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0306	0.9022	0.2490	1.8600e-003	0.0381	6.5900e-003	0.0446	0.0113	6.3000e-003	0.0177	0.0000	182.5429	182.5429	0.0164	0.0000	182.9527
Worker	0.1142	0.0864	0.9391	2.8100e-003	0.2139	1.8600e-003	0.2158	0.0581	1.7100e-003	0.0598	0.0000	253.6422	253.6422	6.7400e-003	0.0000	253.8106

Total	0.1447	0.9886	1.1880	4.6700e-003	0.2520	8.4500e-003	0.2604	0.0694	8.0100e-003	0.0774	0.0000	436.1850	436.1850	0.0231	0.0000	436.7633
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3.5 Phase A: Landscaping/ TCO/ Punchlist - 2018

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	0.0165	0.1567	0.1036	2.3000e-004		7.9500e-003	7.9500e-003		7.4900e-003	7.4900e-003	0.0000	21.0495	21.0495	5.7100e-003	0.0000	21.1921
Total	0.0165	0.1567	0.1036	2.3000e-004		7.9500e-003	7.9500e-003		7.4900e-003	7.4900e-003	0.0000	21.0495	21.0495	5.7100e-003	0.0000	21.1921

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	5.0800e-003	0.1498	0.0414	3.1000e-004	7.7500e-003	1.0900e-003	8.8400e-003	2.2300e-003	1.0500e-003	3.2800e-003	0.0000	30.3130	30.3130	2.7200e-003	0.0000	30.3810
Worker	0.0202	0.0153	0.1661	5.0000e-004	0.0489	3.3000e-004	0.0492	0.0130	3.0000e-004	0.0133	0.0000	44.8752	44.8752	1.1900e-003	0.0000	44.9050
Total	0.0253	0.1651	0.2075	8.1000e-004	0.0566	1.4200e-003	0.0580	0.0152	1.3500e-003	0.0166	0.0000	75.1881	75.1881	3.9100e-003	0.0000	75.2860

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	0.0165	0.1567	0.1036	2.3000e-004		7.9500e-003	7.9500e-003		7.4900e-003	7.4900e-003	0.0000	21.0494	21.0494	5.7100e-003	0.0000	21.1921
Total	0.0165	0.1567	0.1036	2.3000e-004		7.9500e-003	7.9500e-003		7.4900e-003	7.4900e-003	0.0000	21.0494	21.0494	5.7100e-003	0.0000	21.1921

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	5.0800e-003	0.1498	0.0414	3.1000e-004	6.3200e-003	1.0900e-003	7.4100e-003	1.8800e-003	1.0500e-003	2.9300e-003	0.0000	30.3130	30.3130	2.7200e-003	0.0000	30.3810
Worker	0.0202	0.0153	0.1661	5.0000e-004	0.0378	3.3000e-004	0.0382	0.0103	3.0000e-004	0.0106	0.0000	44.8752	44.8752	1.1900e-003	0.0000	44.9050
Total	0.0253	0.1651	0.2075	8.1000e-004	0.0442	1.4200e-003	0.0456	0.0122	1.3500e-003	0.0135	0.0000	75.1881	75.1881	3.9100e-003	0.0000	75.2860

3.6 Phase 1: Site Demolition/ Clearing - 2018

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					9.4800e-003	0.0000	9.4800e-003	1.4400e-003	0.0000	1.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5600e-003	0.0822	0.0778	1.2000e-004		5.4500e-003	5.4500e-003		5.2200e-003	5.2200e-003	0.0000	10.5432	10.5432	2.1900e-003	0.0000	10.5978
Total	9.5600e-003	0.0822	0.0778	1.2000e-004	9.4800e-003	5.4500e-003	0.0149	1.4400e-003	5.2200e-003	6.6600e-003	0.0000	10.5432	10.5432	2.1900e-003	0.0000	10.5978

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	3.8000e-004	0.0142	3.2200e-003	3.0000e-005	7.5000e-004	6.0000e-005	8.1000e-004	2.1000e-004	5.0000e-005	2.6000e-004	0.0000	3.4527	3.4527	3.7000e-004	0.0000	3.4618
Vendor	2.0000e-005	6.7000e-004	1.8000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1355	0.1355	1.0000e-005	0.0000	0.1358
Worker	3.2000e-004	2.5000e-004	2.6700e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.7210	0.7210	2.0000e-005	0.0000	0.7214
Total	7.2000e-004	0.0151	6.0700e-003	4.0000e-005	1.5600e-003	7.0000e-005	1.6400e-003	4.3000e-004	5.0000e-005	4.8000e-004	0.0000	4.3091	4.3091	4.0000e-004	0.0000	4.3191

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					4.0500e-003	0.0000	4.0500e-003	6.1000e-004	0.0000	6.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5600e-003	0.0822	0.0778	1.2000e-004		5.4500e-003	5.4500e-003		5.2200e-003	5.2200e-003	0.0000	10.5432	10.5432	2.1900e-003	0.0000	10.5978
Total	9.5600e-003	0.0822	0.0778	1.2000e-004	4.0500e-003	5.4500e-003	9.5000e-003	6.1000e-004	5.2200e-003	5.8300e-003	0.0000	10.5432	10.5432	2.1900e-003	0.0000	10.5978

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	3.8000e-004	0.0142	3.2200e-003	3.0000e-005	6.1000e-004	6.0000e-005	6.6000e-004	1.7000e-004	5.0000e-005	2.2000e-004	0.0000	3.4527	3.4527	3.7000e-004	0.0000	3.4618
Vendor	2.0000e-005	6.7000e-004	1.8000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1355	0.1355	1.0000e-005	0.0000	0.1358
Worker	3.2000e-004	2.5000e-004	2.6700e-003	1.0000e-005	6.1000e-004	1.0000e-005	6.1000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.7210	0.7210	2.0000e-005	0.0000	0.7214
Total	7.2000e-004	0.0151	6.0700e-003	4.0000e-005	1.2500e-003	7.0000e-005	1.3000e-003	3.5000e-004	5.0000e-005	4.0000e-004	0.0000	4.3091	4.3091	4.0000e-004	0.0000	4.3191

3.7 Phase 1: Shoring - 2018

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					2.9400e-003	0.0000	2.9400e-003	4.5000e-004	0.0000	4.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0128	0.1166	0.0702	1.8000e-004		5.2000e-003	5.2000e-003		4.8900e-003	4.8900e-003	0.0000	15.9517	15.9517	4.7200e-003	0.0000	16.0696
Total	0.0128	0.1166	0.0702	1.8000e-004	2.9400e-003	5.2000e-003	8.1400e-003	4.5000e-004	4.8900e-003	5.3400e-003	0.0000	15.9517	15.9517	4.7200e-003	0.0000	16.0696

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	2.8400e-003	0.1049	0.0238	2.5000e-004	5.5700e-003	4.1000e-004	5.9800e-003	1.5300e-003	3.9000e-004	1.9200e-003	0.0000	25.5025	25.5025	2.7100e-003	0.0000	25.5703
Vendor	2.0000e-005	6.7000e-004	1.8000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1355	0.1355	1.0000e-005	0.0000	0.1358
Worker	3.7000e-004	2.8000e-004	3.0800e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8319	0.8319	2.0000e-005	0.0000	0.8324
Total	3.2300e-003	0.1058	0.0270	2.6000e-004	6.5100e-003	4.2000e-004	6.9300e-003	1.7800e-003	4.0000e-004	2.1800e-003	0.0000	26.4699	26.4699	2.7400e-003	0.0000	26.5385

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					1.2600e-003	0.0000	1.2600e-003	1.9000e-004	0.0000	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0128	0.1166	0.0702	1.8000e-004		5.2000e-003	5.2000e-003		4.8900e-003	4.8900e-003	0.0000	15.9516	15.9516	4.7200e-003	0.0000	16.0696
Total	0.0128	0.1166	0.0702	1.8000e-004	1.2600e-003	5.2000e-003	6.4600e-003	1.9000e-004	4.8900e-003	5.0800e-003	0.0000	15.9516	15.9516	4.7200e-003	0.0000	16.0696

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	2.8400e-003	0.1049	0.0238	2.5000e-004	4.4800e-003	4.1000e-004	4.8800e-003	1.2600e-003	3.9000e-004	1.6500e-003	0.0000	25.5025	25.5025	2.7100e-003	0.0000	25.5703

Vendor	2.0000e-005	6.7000e-004	1.8000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1355	0.1355	1.0000e-005	0.0000	0.1358
Worker	3.7000e-004	2.8000e-004	3.0800e-003	1.0000e-005	7.0000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.8319	0.8319	2.0000e-005	0.0000	0.8324
Total	3.2300e-003	0.1058	0.0270	2.6000e-004	5.2100e-003	4.2000e-004	5.6200e-003	1.4600e-003	4.0000e-004	1.8600e-003	0.0000	26.4699	26.4699	2.7400e-003	0.0000	26.5385

3.8 Phase 1: Excavation - 2018

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	0.0119	0.1261	0.1263	1.9000e-004		7.2000e-003	7.2000e-003		6.6200e-003	6.6200e-003	0.0000	17.0926	17.0926	5.3200e-003	0.0000	17.2256
Total	0.0119	0.1261	0.1263	1.9000e-004		7.2000e-003	7.2000e-003		6.6200e-003	6.6200e-003	0.0000	17.0926	17.0926	5.3200e-003	0.0000	17.2256

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	6.0900e-003	0.2253	0.0510	5.4000e-004	0.0219	8.7000e-004	0.0227	5.7100e-003	8.4000e-004	6.5500e-003	0.0000	54.7724	54.7724	5.8300e-003	0.0000	54.9181
Vendor	4.6400e-003	0.1368	0.0378	2.8000e-004	7.0700e-003	1.0000e-003	8.0700e-003	2.0400e-003	9.6000e-004	3.0000e-003	0.0000	27.6771	27.6771	2.4900e-003	0.0000	27.7392
Worker	0.0184	0.0140	0.1517	4.5000e-004	0.0446	3.0000e-004	0.0449	0.0119	2.8000e-004	0.0121	0.0000	40.9730	40.9730	1.0900e-003	0.0000	41.0002
Total	0.0292	0.3760	0.2405	1.2700e-003	0.0736	2.1700e-003	0.0757	0.0196	2.0800e-003	0.0217	0.0000	123.4224	123.4224	9.4100e-003	0.0000	123.6575

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	0.0119	0.1261	0.1263	1.9000e-004		7.2000e-003	7.2000e-003		6.6200e-003	6.6200e-003	0.0000	17.0925	17.0925	5.3200e-003	0.0000	17.2256
Total	0.0119	0.1261	0.1263	1.9000e-004		7.2000e-003	7.2000e-003		6.6200e-003	6.6200e-003	0.0000	17.0925	17.0925	5.3200e-003	0.0000	17.2256

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	6.0900e-003	0.2253	0.0510	5.4000e-004	0.0169	8.7000e-004	0.0178	4.5000e-003	8.4000e-004	5.3400e-003	0.0000	54.7724	54.7724	5.8300e-003	0.0000	54.9181
Vendor	4.6400e-003	0.1368	0.0378	2.8000e-004	5.7700e-003	1.0000e-003	6.7700e-003	1.7200e-003	9.6000e-004	2.6800e-003	0.0000	27.6771	27.6771	2.4900e-003	0.0000	27.7392
Worker	0.0184	0.0140	0.1517	4.5000e-004	0.0346	3.0000e-004	0.0349	9.3800e-003	2.8000e-004	9.6500e-003	0.0000	40.9730	40.9730	1.0900e-003	0.0000	41.0002
Total	0.0292	0.3760	0.2405	1.2700e-003	0.0573	2.1700e-003	0.0594	0.0156	2.0800e-003	0.0177	0.0000	123.4224	123.4224	9.4100e-003	0.0000	123.6575

3.8 Phase 1: Excavation - 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					
Off-Road	0.0117	0.1217	0.1374	2.1000e-004		6.7100e-003	6.7100e-003		6.1700e-003	6.1700e-003	0.0000	18.4142	18.4142	5.8300e-003	0.0000	18.5599
Total	0.0117	0.1217	0.1374	2.1000e-004		6.7100e-003	6.7100e-003		6.1700e-003	6.1700e-003	0.0000	18.4142	18.4142	5.8300e-003	0.0000	18.5599

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	6.4300e-003	0.2340	0.0557	5.9000e-004	0.0221	8.8000e-004	0.0230	5.8100e-003	8.4000e-004	6.6500e-003	0.0000	59.4499	59.4499	6.3200e-003	0.0000	59.6078
Vendor	4.7000e-003	0.1424	0.0388	3.1000e-004	7.7500e-003	9.5000e-004	8.7000e-003	2.2300e-003	9.1000e-004	3.1400e-003	0.0000	30.1612	30.1612	2.6300e-003	0.0000	30.2270
Worker	0.0186	0.0136	0.1506	4.8000e-004	0.0489	3.3000e-004	0.0492	0.0130	3.1000e-004	0.0133	0.0000	43.6869	43.6869	1.0800e-003	0.0000	43.7138
Total	0.0297	0.3900	0.2450	1.3800e-003	0.0788	2.1600e-003	0.0809	0.0210	2.0600e-003	0.0231	0.0000	133.2980	133.2980	0.0100	0.0000	133.5486

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	0.0117	0.1217	0.1374	2.1000e-004		6.7100e-003	6.7100e-003		6.1700e-003	6.1700e-003	0.0000	18.4142	18.4142	5.8300e-003	0.0000	18.5599

Total	0.0117	0.1217	0.1374	2.1000e-004		6.7100e-003	6.7100e-003		6.1700e-003	6.1700e-003	0.0000	18.4142	18.4142	5.8300e-003	0.0000	18.5599
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.4300e-003	0.2340	0.0557	5.9000e-004	0.0172	8.8000e-004	0.0181	4.6000e-003	8.4000e-004	5.4400e-003	0.0000	59.4499	59.4499	6.3200e-003	0.0000	59.6078
Vendor	4.7000e-003	0.1424	0.0388	3.1000e-004	6.3200e-003	9.5000e-004	7.2700e-003	1.8800e-003	9.1000e-004	2.7900e-003	0.0000	30.1612	30.1612	2.6300e-003	0.0000	30.2270
Worker	0.0186	0.0136	0.1506	4.8000e-004	0.0378	3.3000e-004	0.0382	0.0103	3.1000e-004	0.0106	0.0000	43.6869	43.6869	1.0800e-003	0.0000	43.7138
Total	0.0297	0.3900	0.2450	1.3800e-003	0.0614	2.1600e-003	0.0636	0.0168	2.0600e-003	0.0188	0.0000	133.2980	133.2980	0.0100	0.0000	133.5486

3.9 Phase 1: Foundation - 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					
Off-Road	0.0660	0.5044	0.4366	7.7000e-004		0.0289	0.0289		0.0285	0.0285	0.0000	64.8399	64.8399	7.8900e-003	0.0000	65.0370
Total	0.0660	0.5044	0.4366	7.7000e-004		0.0289	0.0289		0.0285	0.0285	0.0000	64.8399	64.8399	7.8900e-003	0.0000	65.0370

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	0.0123	0.4477	0.1066	1.1300e-003	0.0251	1.6800e-003	0.0268	6.8700e-003	1.6100e-003	8.4800e-003	0.0000	113.7302	113.7302	0.0121	0.0000	114.0323
Vendor	8.3000e-003	0.2515	0.0684	5.4000e-004	0.0137	1.6800e-003	0.0154	3.9500e-003	1.6100e-003	5.5500e-003	0.0000	53.2631	53.2631	4.6500e-003	0.0000	53.3794
Worker	0.0331	0.0242	0.2684	8.6000e-004	0.0871	5.9000e-004	0.0877	0.0231	5.5000e-004	0.0237	0.0000	77.8767	77.8767	1.9200e-003	0.0000	77.9247
Total	0.0537	0.7234	0.4434	2.5300e-003	0.1258	3.9500e-003	0.1298	0.0340	3.7700e-003	0.0377	0.0000	244.8700	244.8700	0.0187	0.0000	245.3363

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	0.0660	0.5044	0.4366	7.7000e-004		0.0289	0.0289		0.0285	0.0285	0.0000	64.8398	64.8398	7.8900e-003	0.0000	65.0370
Total	0.0660	0.5044	0.4366	7.7000e-004		0.0289	0.0289		0.0285	0.0285	0.0000	64.8398	64.8398	7.8900e-003	0.0000	65.0370

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
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Category	tons/yr										MT/yr					
	Hauling	0.0123	0.4477	0.1066	1.1300e-003	0.0202	1.6800e-003	0.0218	5.6700e-003	1.6100e-003	7.2700e-003	0.0000	113.7302	113.7302	0.0121	0.0000
Vendor	8.3000e-003	0.2515	0.0684	5.4000e-004	0.0112	1.6800e-003	0.0128	3.3300e-003	1.6100e-003	4.9300e-003	0.0000	53.2631	53.2631	4.6500e-003	0.0000	53.3794
Worker	0.0331	0.0242	0.2684	8.6000e-004	0.0675	5.9000e-004	0.0681	0.0183	5.5000e-004	0.0189	0.0000	77.8767	77.8767	1.9200e-003	0.0000	77.9247
Total	0.0537	0.7234	0.4434	2.5300e-003	0.0988	3.9500e-003	0.1027	0.0273	3.7700e-003	0.0311	0.0000	244.8700	244.8700	0.0187	0.0000	245.3363

3.10 Phase 1: Structural Concrete - 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					
Off-Road	0.3092	2.3739	2.0561	3.6000e-003		0.1368	0.1368		0.1348	0.1348	0.0000	305.3859	305.3859	0.0373	0.0000	306.3171
Total	0.3092	2.3739	2.0561	3.6000e-003		0.1368	0.1368		0.1348	0.1348	0.0000	305.3859	305.3859	0.0373	0.0000	306.3171

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	0.0399	1.2084	0.3288	2.6000e-003	0.0657	8.0700e-003	0.0738	0.0190	7.7200e-003	0.0267	0.0000	255.9228	255.9228	0.0223	0.0000	256.4813

Worker	0.1593	0.1162	1.2895	4.1400e-003	0.4185	2.8500e-003	0.4213	0.1111	2.6200e-003	0.1138	0.0000	374.1881	374.1881	9.2200e-003	0.0000	374.4185
Total	0.1991	1.3245	1.6183	6.7400e-003	0.4842	0.0109	0.4951	0.1301	0.0103	0.1404	0.0000	630.1109	630.1109	0.0316	0.0000	630.8998

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	0.3092	2.3739	2.0561	3.6000e-003		0.1368	0.1368		0.1348	0.1348	0.0000	305.3855	305.3855	0.0373	0.0000	306.3167
Total	0.3092	2.3739	2.0561	3.6000e-003		0.1368	0.1368		0.1348	0.1348	0.0000	305.3855	305.3855	0.0373	0.0000	306.3167

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	0.0399	1.2084	0.3288	2.6000e-003	0.0536	8.0700e-003	0.0617	0.0160	7.7200e-003	0.0237	0.0000	255.9228	255.9228	0.0223	0.0000	256.4813
Worker	0.1593	0.1162	1.2895	4.1400e-003	0.3241	2.8500e-003	0.3270	0.0880	2.6200e-003	0.0906	0.0000	374.1881	374.1881	9.2200e-003	0.0000	374.4185
Total	0.1991	1.3245	1.6183	6.7400e-003	0.3778	0.0109	0.3887	0.1040	0.0103	0.1143	0.0000	630.1109	630.1109	0.0316	0.0000	630.8998

3.10 Phase 1: Structural Concrete - 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					
Off-Road	0.0324	0.2552	0.2363	4.2000e-004		0.0139	0.0139		0.0137	0.0137	0.0000	35.5246	35.5246	4.0900e-003	0.0000	35.6267
Total	0.0324	0.2552	0.2363	4.2000e-004		0.0139	0.0139		0.0137	0.0137	0.0000	35.5246	35.5246	4.0900e-003	0.0000	35.6267

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9700e-003	0.1293	0.0352	3.0000e-004	7.6700e-003	6.7000e-004	8.3400e-003	2.2100e-003	6.4000e-004	2.8500e-003	0.0000	29.6736	29.6736	2.4800e-003	0.0000	29.7355
Worker	0.0174	0.0122	0.1380	4.7000e-004	0.0489	3.3000e-004	0.0492	0.0130	3.0000e-004	0.0133	0.0000	42.2869	42.2869	9.6000e-004	0.0000	42.3110
Total	0.0213	0.1414	0.1731	7.7000e-004	0.0565	1.0000e-003	0.0575	0.0152	9.4000e-004	0.0161	0.0000	71.9605	71.9605	3.4400e-003	0.0000	72.0466

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
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Category	tons/yr										MT/yr					
Off-Road	0.0324	0.2552	0.2363	4.2000e-004		0.0139	0.0139		0.0137	0.0137	0.0000	35.5245	35.5245	4.0900e-003	0.0000	35.6267
Total	0.0324	0.2552	0.2363	4.2000e-004		0.0139	0.0139		0.0137	0.0137	0.0000	35.5245	35.5245	4.0900e-003	0.0000	35.6267

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9700e-003	0.1293	0.0352	3.0000e-004	6.2600e-003	6.7000e-004	6.9300e-003	1.8700e-003	6.4000e-004	2.5000e-003	0.0000	29.6736	29.6736	2.4800e-003	0.0000	29.7355
Worker	0.0174	0.0122	0.1380	4.7000e-004	0.0378	3.3000e-004	0.0382	0.0103	3.0000e-004	0.0106	0.0000	42.2869	42.2869	9.6000e-004	0.0000	42.3110
Total	0.0213	0.1414	0.1731	7.7000e-004	0.0441	1.0000e-003	0.0451	0.0121	9.4000e-004	0.0131	0.0000	71.9605	71.9605	3.4400e-003	0.0000	72.0466

3.11 Phase 1: Rough Interior Fit Out - 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					
Off-Road	6.9000e-003	0.0312	0.0332	3.0000e-005		2.6200e-003	2.6200e-003		2.4100e-003	2.4100e-003	0.0000	2.9324	2.9324	9.3000e-004	0.0000	2.9556
Total	6.9000e-003	0.0312	0.0332	3.0000e-005		2.6200e-003	2.6200e-003		2.4100e-003	2.4100e-003	0.0000	2.9324	2.9324	9.3000e-004	0.0000	2.9556

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	0.0287	0.8708	0.2369	1.8700e-003	0.0474	5.8100e-003	0.0532	0.0137	5.5600e-003	0.0192	0.0000	184.4233	184.4233	0.0161	0.0000	184.8257
Worker	0.1067	0.0778	0.8640	2.7700e-003	0.2804	1.9100e-003	0.2823	0.0745	1.7600e-003	0.0762	0.0000	250.7250	250.7250	6.1800e-003	0.0000	250.8794
Total	0.1355	0.9486	1.1010	4.6400e-003	0.3278	7.7200e-003	0.3355	0.0881	7.3200e-003	0.0954	0.0000	435.1483	435.1483	0.0223	0.0000	435.7051

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	6.9000e-003	0.0312	0.0332	3.0000e-005		2.6200e-003	2.6200e-003		2.4100e-003	2.4100e-003	0.0000	2.9324	2.9324	9.3000e-004	0.0000	2.9556
Total	6.9000e-003	0.0312	0.0332	3.0000e-005		2.6200e-003	2.6200e-003		2.4100e-003	2.4100e-003	0.0000	2.9324	2.9324	9.3000e-004	0.0000	2.9556

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	0.0287	0.8708	0.2369	1.8700e-003	0.0386	5.8100e-003	0.0444	0.0115	5.5600e-003	0.0171	0.0000	184.4233	184.4233	0.0161	0.0000	184.8257
Worker	0.1067	0.0778	0.8640	2.7700e-003	0.2172	1.9100e-003	0.2191	0.0590	1.7600e-003	0.0607	0.0000	250.7250	250.7250	6.1800e-003	0.0000	250.8794
Total	0.1355	0.9486	1.1010	4.6400e-003	0.2558	7.7200e-003	0.2635	0.0705	7.3200e-003	0.0778	0.0000	435.1483	435.1483	0.0223	0.0000	435.7051

3.11 Phase 1: Rough Interior Fit Out - 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					
Off-Road	4.2300e-003	0.0199	0.0213	2.0000e-005		1.6000e-003	1.6000e-003		1.4700e-003	1.4700e-003	0.0000	1.8906	1.8906	6.1000e-004	0.0000	1.9059
Total	4.2300e-003	0.0199	0.0213	2.0000e-005		1.6000e-003	1.6000e-003		1.4700e-003	1.4700e-003	0.0000	1.8906	1.8906	6.1000e-004	0.0000	1.9059

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	0.0162	0.5259	0.1430	1.2200e-003	0.0312	2.7100e-003	0.0339	9.0000e-003	2.6000e-003	0.0116	0.0000	120.7147	120.7147	0.0101	0.0000	120.9668
Worker	0.0656	0.0460	0.5219	1.7700e-003	0.1848	1.2400e-003	0.1861	0.0491	1.1500e-003	0.0502	0.0000	159.9548	159.9548	3.6500e-003	0.0000	160.0460
Total	0.0818	0.5719	0.6649	2.9900e-003	0.2160	3.9500e-003	0.2200	0.0581	3.7500e-003	0.0618	0.0000	280.6694	280.6694	0.0137	0.0000	281.0128

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	4.2300e-003	0.0199	0.0213	2.0000e-005		1.6000e-003	1.6000e-003		1.4700e-003	1.4700e-003	0.0000	1.8906	1.8906	6.1000e-004	0.0000	1.9059
Total	4.2300e-003	0.0199	0.0213	2.0000e-005		1.6000e-003	1.6000e-003		1.4700e-003	1.4700e-003	0.0000	1.8906	1.8906	6.1000e-004	0.0000	1.9059

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	0.0162	0.5259	0.1430	1.2200e-003	0.0255	2.7100e-003	0.0282	7.5900e-003	2.6000e-003	0.0102	0.0000	120.7147	120.7147	0.0101	0.0000	120.9668
Worker	0.0656	0.0460	0.5219	1.7700e-003	0.1432	1.2400e-003	0.1444	0.0389	1.1500e-003	0.0400	0.0000	159.9548	159.9548	3.6500e-003	0.0000	160.0460

Total	0.0818	0.5719	0.6649	2.9900e-003	0.1686	3.9500e-003	0.1726	0.0464	3.7500e-003	0.0502	0.0000	280.6694	280.6694	0.0137	0.0000	281.0128
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3.12 Phase 1: Interior Finish Fit Out - 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					
Off-Road	3.4500e-003	0.0156	0.0166	2.0000e-005		1.3100e-003	1.3100e-003		1.2000e-003	1.2000e-003	0.0000	1.4662	1.4662	4.6000e-004	0.0000	1.4778
Total	3.4500e-003	0.0156	0.0166	2.0000e-005		1.3100e-003	1.3100e-003		1.2000e-003	1.2000e-003	0.0000	1.4662	1.4662	4.6000e-004	0.0000	1.4778

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	0.0144	0.4354	0.1185	9.4000e-004	0.0237	2.9100e-003	0.0266	6.8300e-003	2.7800e-003	9.6100e-003	0.0000	92.2116	92.2116	8.0500e-003	0.0000	92.4129
Worker	0.0534	0.0389	0.4320	1.3900e-003	0.1402	9.5000e-004	0.1412	0.0372	8.8000e-004	0.0381	0.0000	125.3625	125.3625	3.0900e-003	0.0000	125.4397
Total	0.0677	0.4743	0.5505	2.3300e-003	0.1639	3.8600e-003	0.1677	0.0441	3.6600e-003	0.0477	0.0000	217.5741	217.5741	0.0111	0.0000	217.8526

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4500e-003	0.0156	0.0166	2.0000e-005		1.3100e-003	1.3100e-003		1.2000e-003	1.2000e-003	0.0000	1.4662	1.4662	4.6000e-004	0.0000	1.4778
Total	3.4500e-003	0.0156	0.0166	2.0000e-005		1.3100e-003	1.3100e-003		1.2000e-003	1.2000e-003	0.0000	1.4662	1.4662	4.6000e-004	0.0000	1.4778

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	0.0144	0.4354	0.1185	9.4000e-004	0.0193	2.9100e-003	0.0222	5.7600e-003	2.7800e-003	8.5400e-003	0.0000	92.2116	92.2116	8.0500e-003	0.0000	92.4129
Worker	0.0534	0.0389	0.4320	1.3900e-003	0.1086	9.5000e-004	0.1096	0.0295	8.8000e-004	0.0304	0.0000	125.3625	125.3625	3.0900e-003	0.0000	125.4397
Total	0.0677	0.4743	0.5505	2.3300e-003	0.1279	3.8600e-003	0.1318	0.0352	3.6600e-003	0.0389	0.0000	217.5741	217.5741	0.0111	0.0000	217.8526

3.12 Phase 1: Interior Finish Fit Out - 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					

Off-Road	7.4400e-003	0.0350	0.0375	4.0000e-005		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	3.3249	3.3249	1.0800e-003	0.0000	3.3517
Total	7.4400e-003	0.0350	0.0375	4.0000e-005		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	3.3249	3.3249	1.0800e-003	0.0000	3.3517

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	0.0284	0.9249	0.2516	2.1500e-003	0.0549	4.7700e-003	0.0597	0.0158	4.5700e-003	0.0204	0.0000	212.2913	212.2913	0.0177	0.0000	212.7347
Worker	0.1154	0.0808	0.9177	3.1100e-003	0.3250	2.1900e-003	0.3272	0.0863	2.0100e-003	0.0883	0.0000	281.2997	281.2997	6.4200e-003	0.0000	281.4602
Total	0.1438	1.0058	1.1693	5.2600e-003	0.3799	6.9600e-003	0.3869	0.1021	6.5800e-003	0.1087	0.0000	493.5910	493.5910	0.0242	0.0000	494.1949

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	7.4400e-003	0.0350	0.0375	4.0000e-005		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	3.3249	3.3249	1.0800e-003	0.0000	3.3517
Total	7.4400e-003	0.0350	0.0375	4.0000e-005		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	3.3249	3.3249	1.0800e-003	0.0000	3.3517

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	0.0284	0.9249	0.2516	2.1500e-003	0.0448	4.7700e-003	0.0496	0.0134	4.5700e-003	0.0179	0.0000	212.2913	212.2913	0.0177	0.0000	212.7347
Worker	0.1154	0.0808	0.9177	3.1100e-003	0.2518	2.1900e-003	0.2539	0.0683	2.0100e-003	0.0703	0.0000	281.2997	281.2997	6.4200e-003	0.0000	281.4602
Total	0.1438	1.0058	1.1693	5.2600e-003	0.2965	6.9600e-003	0.3035	0.0817	6.5800e-003	0.0883	0.0000	493.5910	493.5910	0.0242	0.0000	494.1949

3.13 Phase 1: Landscaping/ TCO/ Punchlist - 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					
Off-Road	0.0126	0.1121	0.0896	2.1000e-004		5.3700e-003	5.3700e-003		5.0600e-003	5.0600e-003	0.0000	18.6189	18.6189	5.1400e-003	0.0000	18.7475
Total	0.0126	0.1121	0.0896	2.1000e-004		5.3700e-003	5.3700e-003		5.0600e-003	5.0600e-003	0.0000	18.6189	18.6189	5.1400e-003	0.0000	18.7475

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	2.1700e-003	0.0809	0.0203	2.2000e-004	4.8800e-003	2.6000e-004	5.1400e-003	1.3400e-003	2.4000e-004	1.5800e-003	0.0000	21.9158	21.9158	2.3100e-003	0.0000	21.9735
Vendor	3.6900e-003	0.1203	0.0327	2.8000e-004	7.1400e-003	6.2000e-004	7.7600e-003	2.0600e-003	5.9000e-004	2.6500e-003	0.0000	27.6044	27.6044	2.3100e-003	0.0000	27.6621
Worker	0.0158	0.0111	0.1260	4.3000e-004	0.0446	3.0000e-004	0.0449	0.0119	2.8000e-004	0.0121	0.0000	38.6098	38.6098	8.8000e-004	0.0000	38.6318
Total	0.0217	0.2123	0.1789	9.3000e-004	0.0566	1.1800e-003	0.0578	0.0153	1.1100e-003	0.0164	0.0000	88.1300	88.1300	5.5000e-003	0.0000	88.2674

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	0.0126	0.1121	0.0896	2.1000e-004		5.3700e-003	5.3700e-003		5.0600e-003	5.0600e-003	0.0000	18.6189	18.6189	5.1400e-003	0.0000	18.7475
Total	0.0126	0.1121	0.0896	2.1000e-004		5.3700e-003	5.3700e-003		5.0600e-003	5.0600e-003	0.0000	18.6189	18.6189	5.1400e-003	0.0000	18.7475

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	2.1700e-003	0.0809	0.0203	2.2000e-004	3.9300e-003	2.6000e-004	4.1800e-003	1.1000e-003	2.4000e-004	1.3500e-003	0.0000	21.9158	21.9158	2.3100e-003	0.0000	21.9735

Vendor	3.6900e-003	0.1203	0.0327	2.8000e-004	5.8200e-003	6.2000e-004	6.4400e-003	1.7400e-003	5.9000e-004	2.3300e-003	0.0000	27.6044	27.6044	2.3100e-003	0.0000	27.6621
Worker	0.0158	0.0111	0.1260	4.3000e-004	0.0346	3.0000e-004	0.0349	9.3800e-003	2.8000e-004	9.6500e-003	0.0000	38.6098	38.6098	8.8000e-004	0.0000	38.6318
Total	0.0217	0.2123	0.1789	9.3000e-004	0.0443	1.1800e-003	0.0455	0.0122	1.1100e-003	0.0133	0.0000	88.1300	88.1300	5.5000e-003	0.0000	88.2674

3.14 Phase 2: Site Demolition/ Clearing - 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					7.5000e-003	0.0000	7.5000e-003	1.1400e-003	0.0000	1.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.1338	0.1535	2.4000e-004		8.0200e-003	8.0200e-003		7.6800e-003	7.6800e-003	0.0000	20.6525	20.6525	4.2200e-003	0.0000	20.7580
Total	0.0155	0.1338	0.1535	2.4000e-004	7.5000e-003	8.0200e-003	0.0155	1.1400e-003	7.6800e-003	8.8200e-003	0.0000	20.6525	20.6525	4.2200e-003	0.0000	20.7580

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	2.6000e-004	9.7900e-003	2.4500e-003	3.0000e-005	5.9000e-004	3.0000e-005	6.2000e-004	1.6000e-004	3.0000e-005	1.9000e-004	0.0000	2.6530	2.6530	2.8000e-004	0.0000	2.6600
Vendor	4.0000e-005	1.1700e-003	3.2000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2678	0.2678	2.0000e-005	0.0000	0.2683
Worker	5.4000e-004	3.8000e-004	4.2600e-003	1.0000e-005	1.5100e-003	1.0000e-005	1.5200e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3065	1.3065	3.0000e-005	0.0000	1.3072
Total	8.4000e-004	0.0113	7.0300e-003	4.0000e-005	2.1700e-003	5.0000e-005	2.2200e-003	5.8000e-004	5.0000e-005	6.3000e-004	0.0000	4.2272	4.2272	3.3000e-004	0.0000	4.2355

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					3.2100e-003	0.0000	3.2100e-003	4.9000e-004	0.0000	4.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.1338	0.1535	2.4000e-004		8.0200e-003	8.0200e-003		7.6800e-003	7.6800e-003	0.0000	20.6524	20.6524	4.2200e-003	0.0000	20.7579
Total	0.0155	0.1338	0.1535	2.4000e-004	3.2100e-003	8.0200e-003	0.0112	4.9000e-004	7.6800e-003	8.1700e-003	0.0000	20.6524	20.6524	4.2200e-003	0.0000	20.7579

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	2.6000e-004	9.7900e-003	2.4500e-003	3.0000e-005	4.8000e-004	3.0000e-005	5.1000e-004	1.3000e-004	3.0000e-005	1.6000e-004	0.0000	2.6530	2.6530	2.8000e-004	0.0000	2.6600
Vendor	4.0000e-005	1.1700e-003	3.2000e-004	0.0000	6.0000e-005	1.0000e-005	6.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.2678	0.2678	2.0000e-005	0.0000	0.2683
Worker	5.4000e-004	3.8000e-004	4.2600e-003	1.0000e-005	1.1700e-003	1.0000e-005	1.1800e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.3065	1.3065	3.0000e-005	0.0000	1.3072
Total	8.4000e-004	0.0113	7.0300e-003	4.0000e-005	1.7100e-003	5.0000e-005	1.7500e-003	4.7000e-004	5.0000e-005	5.1000e-004	0.0000	4.2272	4.2272	3.3000e-004	0.0000	4.2355

3.15 Phase 2: Shoring - 2020

Unmitigated Construction On-Site

Off-Road	0.0191	0.1816	0.1220	3.2000e-004		7.6600e-003	7.6600e-003		7.1700e-003	7.1700e-003	0.0000	27.6018	27.6018	8.3300e-003	0.0000	27.8101
Total	0.0191	0.1816	0.1220	3.2000e-004	1.0300e-003	7.6600e-003	8.6900e-003	1.6000e-004	7.1700e-003	7.3300e-003	0.0000	27.6018	27.6018	8.3300e-003	0.0000	27.8101

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	2.0200e-003	0.0752	0.0188	2.0000e-004	3.6500e-003	2.4000e-004	3.8900e-003	1.0300e-003	2.3000e-004	1.2500e-003	0.0000	20.3778	20.3778	2.1500e-003	0.0000	20.4315
Vendor	6.0000e-005	1.9100e-003	5.2000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4382	0.4382	4.0000e-005	0.0000	0.4391
Worker	5.8000e-004	4.1000e-004	4.6500e-003	2.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.4252	1.4252	3.0000e-005	0.0000	1.4261
Total	2.6600e-003	0.0775	0.0240	2.2000e-004	5.0200e-003	2.6000e-004	5.2800e-003	1.4100e-003	2.5000e-004	1.6500e-003	0.0000	22.2412	22.2412	2.2200e-003	0.0000	22.2966

3.16 Phase 2: Excavation - 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					
Off-Road	0.0425	0.4342	0.5369	8.0000e-004		0.0235	0.0235		0.0216	0.0216	0.0000	70.2919	70.2919	0.0227	0.0000	70.8602
Total	0.0425	0.4342	0.5369	8.0000e-004		0.0235	0.0235		0.0216	0.0216	0.0000	70.2919	70.2919	0.0227	0.0000	70.8602

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	9.1000e-003	0.3386	0.0848	9.1000e-004	0.0205	1.0700e-003	0.0215	5.6100e-003	1.0200e-003	6.6300e-003	0.0000	91.7386	91.7386	9.6700e-003	0.0000	91.9804
Vendor	7.5600e-003	0.2463	0.0670	5.7000e-004	0.0146	1.2700e-003	0.0159	4.2200e-003	1.2200e-003	5.4300e-003	0.0000	56.5234	56.5234	4.7200e-003	0.0000	56.6414
Worker	0.0324	0.0227	0.2579	8.7000e-004	0.0913	6.1000e-004	0.0920	0.0243	5.7000e-004	0.0248	0.0000	79.0581	79.0581	1.8000e-003	0.0000	79.1032
Total	0.0491	0.6075	0.4097	2.3500e-003	0.1264	2.9500e-003	0.1294	0.0341	2.8100e-003	0.0369	0.0000	227.3201	227.3201	0.0162	0.0000	227.7250

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	0.0425	0.4342	0.5369	8.0000e-004		0.0235	0.0235		0.0216	0.0216	0.0000	70.2918	70.2918	0.0227	0.0000	70.8601
Total	0.0425	0.4342	0.5369	8.0000e-004		0.0235	0.0235		0.0216	0.0216	0.0000	70.2918	70.2918	0.0227	0.0000	70.8601

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
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Category	tons/yr										MT/yr					
Hauling	9.1000e-003	0.3386	0.0848	9.1000e-004	0.0164	1.0700e-003	0.0175	4.6200e-003	1.0200e-003	5.6400e-003	0.0000	91.7386	91.7386	9.6700e-003	0.0000	91.9804
Vendor	7.5600e-003	0.2463	0.0670	5.7000e-004	0.0119	1.2700e-003	0.0132	3.5500e-003	1.2200e-003	4.7700e-003	0.0000	56.5234	56.5234	4.7200e-003	0.0000	56.6414
Worker	0.0324	0.0227	0.2579	8.7000e-004	0.0708	6.1000e-004	0.0714	0.0192	5.7000e-004	0.0198	0.0000	79.0581	79.0581	1.8000e-003	0.0000	79.1032
Total	0.0491	0.6075	0.4097	2.3500e-003	0.0991	2.9500e-003	0.1021	0.0274	2.8100e-003	0.0302	0.0000	227.3201	227.3201	0.0162	0.0000	227.7250

3.17 Phase 2: Foundation - 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					
Off-Road	0.0664	0.5154	0.4749	8.6000e-004		0.0276	0.0276		0.0272	0.0272	0.0000	71.3528	71.3528	8.1700e-003	0.0000	71.5570
Total	0.0664	0.5154	0.4749	8.6000e-004		0.0276	0.0276		0.0272	0.0272	0.0000	71.3528	71.3528	8.1700e-003	0.0000	71.5570

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	4.5500e-003	0.1693	0.0424	4.5000e-004	0.0180	5.4000e-004	0.0185	4.7000e-003	5.1000e-004	5.2100e-003	0.0000	45.8693	45.8693	4.8300e-003	0.0000	45.9902
Vendor	3.8000e-003	0.1237	0.0336	2.9000e-004	7.3400e-003	6.4000e-004	7.9800e-003	2.1200e-003	6.1000e-004	2.7300e-003	0.0000	28.3834	28.3834	2.3700e-003	0.0000	28.4427

Worker	0.0166	0.0116	0.1320	4.5000e-004	0.0467	3.1000e-004	0.0471	0.0124	2.9000e-004	0.0127	0.0000	40.4483	40.4483	9.2000e-004	0.0000	40.4714
Total	0.0249	0.3046	0.2080	1.1900e-003	0.0720	1.4900e-003	0.0735	0.0192	1.4100e-003	0.0206	0.0000	114.7011	114.7011	8.1200e-003	0.0000	114.9043

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	0.0664	0.5154	0.4749	8.6000e-004		0.0276	0.0276		0.0272	0.0272	0.0000	71.3527	71.3527	8.1700e-003	0.0000	71.5569
Total	0.0664	0.5154	0.4749	8.6000e-004		0.0276	0.0276		0.0272	0.0272	0.0000	71.3527	71.3527	8.1700e-003	0.0000	71.5569

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	4.5500e-003	0.1693	0.0424	4.5000e-004	0.0139	5.4000e-004	0.0145	3.7100e-003	5.1000e-004	4.2300e-003	0.0000	45.8693	45.8693	4.8300e-003	0.0000	45.9902
Vendor	3.8000e-003	0.1237	0.0336	2.9000e-004	5.9900e-003	6.4000e-004	6.6200e-003	1.7800e-003	6.1000e-004	2.4000e-003	0.0000	28.3834	28.3834	2.3700e-003	0.0000	28.4427
Worker	0.0166	0.0116	0.1320	4.5000e-004	0.0362	3.1000e-004	0.0365	9.8200e-003	2.9000e-004	0.0101	0.0000	40.4483	40.4483	9.2000e-004	0.0000	40.4714
Total	0.0249	0.3046	0.2080	1.1900e-003	0.0561	1.4900e-003	0.0576	0.0153	1.4100e-003	0.0167	0.0000	114.7011	114.7011	8.1200e-003	0.0000	114.9043

3.17 Phase 2: Foundation - 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					
Off-Road	0.0604	0.4752	0.4683	8.6000e-004		0.0241	0.0241		0.0237	0.0237	0.0000	71.3518	71.3518	7.7700e-003	0.0000	71.5460
Total	0.0604	0.4752	0.4683	8.6000e-004		0.0241	0.0241		0.0237	0.0237	0.0000	71.3518	71.3518	7.7700e-003	0.0000	71.5460

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	4.3400e-003	0.1564	0.0426	4.5000e-004	0.0180	4.8000e-004	0.0184	4.7000e-003	4.6000e-004	5.1600e-003	0.0000	45.3069	45.3069	4.7700e-003	0.0000	45.4262
Vendor	3.1800e-003	0.1111	0.0311	2.8000e-004	7.3400e-003	2.3000e-004	7.5700e-003	2.1200e-003	2.2000e-004	2.3400e-003	0.0000	28.1389	28.1389	2.2800e-003	0.0000	28.1958
Worker	0.0156	0.0105	0.1223	4.3000e-004	0.0467	3.1000e-004	0.0470	0.0124	2.8000e-004	0.0127	0.0000	39.0448	39.0448	8.4000e-004	0.0000	39.0657
Total	0.0231	0.2780	0.1960	1.1600e-003	0.0720	1.0200e-003	0.0730	0.0192	9.6000e-004	0.0202	0.0000	112.4905	112.4905	7.8900e-003	0.0000	112.6877

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
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Category	tons/yr										MT/yr					
Off-Road	0.0604	0.4752	0.4683	8.6000e-004		0.0241	0.0241		0.0237	0.0237	0.0000	71.3517	71.3517	7.7700e-003	0.0000	71.5459
Total	0.0604	0.4752	0.4683	8.6000e-004		0.0241	0.0241		0.0237	0.0237	0.0000	71.3517	71.3517	7.7700e-003	0.0000	71.5459

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	4.3400e-003	0.1564	0.0426	4.5000e-004	0.0139	4.8000e-004	0.0144	3.7100e-003	4.6000e-004	4.1700e-003	0.0000	45.3069	45.3069	4.7700e-003	0.0000	45.4262
Vendor	3.1800e-003	0.1111	0.0311	2.8000e-004	5.9900e-003	2.3000e-004	6.2200e-003	1.7800e-003	2.2000e-004	2.0100e-003	0.0000	28.1389	28.1389	2.2800e-003	0.0000	28.1958
Worker	0.0156	0.0105	0.1223	4.3000e-004	0.0362	3.1000e-004	0.0365	9.8200e-003	2.8000e-004	0.0101	0.0000	39.0448	39.0448	8.4000e-004	0.0000	39.0657
Total	0.0231	0.2780	0.1960	1.1600e-003	0.0561	1.0200e-003	0.0571	0.0153	9.6000e-004	0.0163	0.0000	112.4905	112.4905	7.8900e-003	0.0000	112.6877

3.18 Phase 2: Structural Concrete - 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					
Off-Road	0.5866	4.6419	4.5906	8.3500e-003		0.2365	0.2365		0.2331	0.2331	0.0000	699.7552	699.7552	0.0763	0.0000	701.6613
Total	0.5866	4.6419	4.5906	8.3500e-003		0.2365	0.2365		0.2331	0.2331	0.0000	699.7552	699.7552	0.0763	0.0000	701.6613

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	0.0318	1.1109	0.3114	2.8500e-003	0.0734	2.3100e-003	0.0757	0.0212	2.2100e-003	0.0234	0.0000	281.3890	281.3890	0.0228	0.0000	281.9584
Worker	0.1560	0.1049	1.2229	4.3200e-003	0.4673	3.0800e-003	0.4704	0.1241	2.8400e-003	0.1269	0.0000	390.4476	390.4476	8.3600e-003	0.0000	390.6566
Total	0.1878	1.2157	1.5343	7.1700e-003	0.5407	5.3900e-003	0.5461	0.1453	5.0500e-003	0.1503	0.0000	671.8366	671.8366	0.0311	0.0000	672.6150

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	0.5866	4.6418	4.5906	8.3500e-003		0.2365	0.2365		0.2331	0.2331	0.0000	699.7543	699.7543	0.0763	0.0000	701.6605
Total	0.5866	4.6418	4.5906	8.3500e-003		0.2365	0.2365		0.2331	0.2331	0.0000	699.7543	699.7543	0.0763	0.0000	701.6605

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	0.0318	1.1109	0.3114	2.8500e-003	0.0599	2.3100e-003	0.0622	0.0179	2.2100e-003	0.0201	0.0000	281.3890	281.3890	0.0228	0.0000	281.9584
Worker	0.1560	0.1049	1.2229	4.3200e-003	0.3620	3.0800e-003	0.3651	0.0983	2.8400e-003	0.1011	0.0000	390.4476	390.4476	8.3600e-003	0.0000	390.6566
Total	0.1878	1.2157	1.5343	7.1700e-003	0.4219	5.3900e-003	0.4272	0.1161	5.0500e-003	0.1211	0.0000	671.8366	671.8366	0.0311	0.0000	672.6150

3.19 Phase 2: Rough Interior Fit Out - 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					
Off-Road	0.0184	0.1917	0.1774	2.7000e-004		0.0100	0.0100		9.2200e-003	9.2200e-003	0.0000	23.7550	23.7550	7.6800e-003	0.0000	23.9471
Total	0.0184	0.1917	0.1774	2.7000e-004		0.0100	0.0100		9.2200e-003	9.2200e-003	0.0000	23.7550	23.7550	7.6800e-003	0.0000	23.9471

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	0.0291	1.0170	0.2851	2.6100e-003	0.0672	2.1100e-003	0.0693	0.0194	2.0200e-003	0.0214	0.0000	257.6181	257.6181	0.0209	0.0000	258.1395
Worker	0.1241	0.0834	0.9728	3.4300e-003	0.3717	2.4500e-003	0.3742	0.0987	2.2600e-003	0.1010	0.0000	310.5833	310.5833	6.6500e-003	0.0000	310.7496
Total	0.1532	1.1004	1.2579	6.0400e-003	0.4389	4.5600e-003	0.4435	0.1181	4.2800e-003	0.1224	0.0000	568.2014	568.2014	0.0275	0.0000	568.8890

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	0.0184	0.1917	0.1774	2.7000e-004		0.0100	0.0100		9.2200e-003	9.2200e-003	0.0000	23.7550	23.7550	7.6800e-003	0.0000	23.9471
Total	0.0184	0.1917	0.1774	2.7000e-004		0.0100	0.0100		9.2200e-003	9.2200e-003	0.0000	23.7550	23.7550	7.6800e-003	0.0000	23.9471

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	0.0291	1.0170	0.2851	2.6100e-003	0.0548	2.1100e-003	0.0569	0.0163	2.0200e-003	0.0184	0.0000	257.6181	257.6181	0.0209	0.0000	258.1395
Worker	0.1241	0.0834	0.9728	3.4300e-003	0.2879	2.4500e-003	0.2904	0.0782	2.2600e-003	0.0804	0.0000	310.5833	310.5833	6.6500e-003	0.0000	310.7496

Total	0.1532	1.1004	1.2579	6.0400e-003	0.3427	4.5600e-003	0.3473	0.0945	4.2800e-003	0.0988	0.0000	568.2014	568.2014	0.0275	0.0000	568.8890
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3.19 Phase 2: Rough Interior Fit Out - 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	4.0400e-003	0.0410	0.0432	7.0000e-005		2.1400e-003	2.1400e-003		1.9700e-003	1.9700e-003	0.0000	5.8351	5.8351	1.8900e-003	0.0000	5.8823
Total	4.0400e-003	0.0410	0.0432	7.0000e-005		2.1400e-003	2.1400e-003		1.9700e-003	1.9700e-003	0.0000	5.8351	5.8351	1.8900e-003	0.0000	5.8823

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7200e-003	0.2362	0.0676	6.3000e-004	0.0165	4.5000e-004	0.0170	4.7600e-003	4.3000e-004	5.1900e-003	0.0000	62.6763	62.6763	4.9600e-003	0.0000	62.8003
Worker	0.0288	0.0186	0.2228	8.1000e-004	0.0913	5.9000e-004	0.0919	0.0243	5.4000e-004	0.0248	0.0000	73.4894	73.4894	1.4800e-003	0.0000	73.5265
Total	0.0356	0.2547	0.2904	1.4400e-003	0.1079	1.0400e-003	0.1089	0.0290	9.7000e-004	0.0300	0.0000	136.1657	136.1657	6.4400e-003	0.0000	136.3268

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	4.0400e-003	0.0410	0.0432	7.0000e-005		2.1400e-003	2.1400e-003		1.9700e-003	1.9700e-003	0.0000	5.8351	5.8351	1.8900e-003	0.0000	5.8822
Total	4.0400e-003	0.0410	0.0432	7.0000e-005		2.1400e-003	2.1400e-003		1.9700e-003	1.9700e-003	0.0000	5.8351	5.8351	1.8900e-003	0.0000	5.8822

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7200e-003	0.2362	0.0676	6.3000e-004	0.0135	4.5000e-004	0.0139	4.0100e-003	4.3000e-004	4.4500e-003	0.0000	62.6763	62.6763	4.9600e-003	0.0000	62.8003
Worker	0.0288	0.0186	0.2228	8.1000e-004	0.0708	5.9000e-004	0.0713	0.0192	5.4000e-004	0.0198	0.0000	73.4894	73.4894	1.4800e-003	0.0000	73.5265
Total	0.0356	0.2547	0.2904	1.4400e-003	0.0842	1.0400e-003	0.0853	0.0232	9.7000e-004	0.0242	0.0000	136.1657	136.1657	6.4400e-003	0.0000	136.3268

3.20 Phase 2: Interior Finish Fit Out - 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					

Off-Road	9.8900e-003	0.0480	0.0520	5.0000e-005		3.7400e-003	3.7400e-003		3.4400e-003	3.4400e-003	0.0000	4.6923	4.6923	1.5200e-003	0.0000	4.7302
Total	9.8900e-003	0.0480	0.0520	5.0000e-005		3.7400e-003	3.7400e-003		3.4400e-003	3.4400e-003	0.0000	4.6923	4.6923	1.5200e-003	0.0000	4.7302

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	0.0180	0.6277	0.1759	1.6100e-003	0.0415	1.3000e-003	0.0428	0.0120	1.2500e-003	0.0132	0.0000	158.9872	158.9872	0.0129	0.0000	159.3089
Worker	0.0766	0.0515	0.6004	2.1200e-003	0.2294	1.5100e-003	0.2309	0.0609	1.3900e-003	0.0623	0.0000	191.6743	191.6743	4.1100e-003	0.0000	191.7769
Total	0.0945	0.6791	0.7763	3.7300e-003	0.2709	2.8100e-003	0.2737	0.0729	2.6400e-003	0.0755	0.0000	350.6615	350.6615	0.0170	0.0000	351.0858

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	9.8900e-003	0.0480	0.0520	5.0000e-005		3.7400e-003	3.7400e-003		3.4400e-003	3.4400e-003	0.0000	4.6923	4.6923	1.5200e-003	0.0000	4.7302
Total	9.8900e-003	0.0480	0.0520	5.0000e-005		3.7400e-003	3.7400e-003		3.4400e-003	3.4400e-003	0.0000	4.6923	4.6923	1.5200e-003	0.0000	4.7302

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	0.0180	0.6277	0.1759	1.6100e-003	0.0338	1.3000e-003	0.0351	0.0101	1.2500e-003	0.0113	0.0000	158.9872	158.9872	0.0129	0.0000	159.3089
Worker	0.0766	0.0515	0.6004	2.1200e-003	0.1777	1.5100e-003	0.1792	0.0482	1.3900e-003	0.0496	0.0000	191.6743	191.6743	4.1100e-003	0.0000	191.7769
Total	0.0945	0.6791	0.7763	3.7300e-003	0.2115	2.8100e-003	0.2143	0.0583	2.6400e-003	0.0610	0.0000	350.6615	350.6615	0.0170	0.0000	351.0858

3.20 Phase 2: Interior Finish Fit Out - 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	9.1000e-003	0.0469	0.0511	5.0000e-005		3.4400e-003	3.4400e-003		3.1600e-003	3.1600e-003	0.0000	4.7483	4.7483	1.5400e-003	0.0000	4.7867
Total	9.1000e-003	0.0469	0.0511	5.0000e-005		3.4400e-003	3.4400e-003		3.1600e-003	3.1600e-003	0.0000	4.7483	4.7483	1.5400e-003	0.0000	4.7867

Unmitigated Construction Off-Site

Vendor	0.0171	0.5987	0.1713	1.6000e-003	0.0341	1.1500e-003	0.0353	0.0102	1.1000e-003	0.0113	0.0000	158.8771	158.8771	0.0126	0.0000	159.1914
Worker	0.0731	0.0471	0.5648	2.0600e-003	0.1794	1.5000e-003	0.1808	0.0487	1.3800e-003	0.0501	0.0000	186.2872	186.2872	3.7600e-003	0.0000	186.3812
Total	0.0902	0.6457	0.7362	3.6600e-003	0.2135	2.6500e-003	0.2161	0.0589	2.4800e-003	0.0613	0.0000	345.1643	345.1643	0.0163	0.0000	345.5726

3.21 Phase 3: Site Demolition/ Clearing - 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					4.0800e-003	0.0000	4.0800e-003	6.2000e-004	0.0000	6.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0158	0.1572	0.1078	1.9000e-004		7.7600e-003	7.7600e-003		7.2100e-003	7.2100e-003	0.0000	17.0004	17.0004	4.7800e-003	0.0000	17.1200
Total	0.0158	0.1572	0.1078	1.9000e-004	4.0800e-003	7.7600e-003	0.0118	6.2000e-004	7.2100e-003	7.8300e-003	0.0000	17.0004	17.0004	4.7800e-003	0.0000	17.1200

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	1.4000e-004	4.9800e-003	1.3600e-003	1.0000e-005	3.3000e-004	2.0000e-005	3.4000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	1.4431	1.4431	1.5000e-004	0.0000	1.4469
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.1500e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6879	0.6879	1.0000e-005	0.0000	0.6883
Total	4.1000e-004	5.1600e-003	3.5100e-003	2.0000e-005	1.1500e-003	3.0000e-005	1.1700e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	2.1310	2.1310	1.6000e-004	0.0000	2.1352

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					1.7400e-003	0.0000	1.7400e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0158	0.1572	0.1078	1.9000e-004		7.7600e-003	7.7600e-003		7.2100e-003	7.2100e-003	0.0000	17.0004	17.0004	4.7800e-003	0.0000	17.1200
Total	0.0158	0.1572	0.1078	1.9000e-004	1.7400e-003	7.7600e-003	9.5000e-003	2.6000e-004	7.2100e-003	7.4700e-003	0.0000	17.0004	17.0004	4.7800e-003	0.0000	17.1200

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	1.4000e-004	4.9800e-003	1.3600e-003	1.0000e-005	2.6000e-004	2.0000e-005	2.8000e-004	7.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.4431	1.4431	1.5000e-004	0.0000	1.4469
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.1500e-003	1.0000e-005	6.4000e-004	1.0000e-005	6.4000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.6879	0.6879	1.0000e-005	0.0000	0.6883
Total	4.1000e-004	5.1600e-003	3.5100e-003	2.0000e-005	9.0000e-004	3.0000e-005	9.2000e-004	2.4000e-004	1.0000e-005	2.7000e-004	0.0000	2.1310	2.1310	1.6000e-004	0.0000	2.1352

3.22 Phase 3: Grading - 2021

Unmitigated Construction On-Site

Off-Road	0.1303	1.4174	1.0060	1.9700e-003		0.0621	0.0621		0.0575	0.0575	0.0000	172.9416	172.9416	0.0516	0.0000	174.2322
Total	0.1303	1.4174	1.0060	1.9700e-003	0.1743	0.0621	0.2363	0.0723	0.0575	0.1297	0.0000	172.9416	172.9416	0.0516	0.0000	174.2322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0900e-003	0.2828	0.0793	7.2000e-004	0.0152	5.9000e-004	0.0158	4.5400e-003	5.6000e-004	5.1000e-003	0.0000	71.6263	71.6263	5.8000e-003	0.0000	71.7712
Worker	0.0397	0.0267	0.3113	1.1000e-003	0.0921	7.8000e-004	0.0929	0.0250	7.2000e-004	0.0257	0.0000	99.3867	99.3867	2.1300e-003	0.0000	99.4399
Total	0.0478	0.3095	0.3906	1.8200e-003	0.1074	1.3700e-003	0.1088	0.0296	1.2800e-003	0.0308	0.0000	171.0129	171.0129	7.9300e-003	0.0000	171.2111

3.22 Phase 3: Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4077	0.0000	0.4077	0.1690	0.0000	0.1690	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0769	0.8116	0.6474	1.3400e-003		0.0348	0.0348		0.0323	0.0323	0.0000	117.4324	117.4324	0.0350	0.0000	118.3078
Total	0.0769	0.8116	0.6474	1.3400e-003	0.4077	0.0348	0.4425	0.1690	0.0323	0.2013	0.0000	117.4324	117.4324	0.0350	0.0000	118.3078

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	5.1600e-003	0.1813	0.0519	4.9000e-004	0.0127	3.5000e-004	0.0130	3.6600e-003	3.3000e-004	3.9900e-003	0.0000	48.1243	48.1243	3.8100e-003	0.0000	48.2195
Worker	0.0255	0.0164	0.1969	7.2000e-004	0.0807	5.2000e-004	0.0812	0.0214	4.8000e-004	0.0219	0.0000	64.9442	64.9442	1.3100e-003	0.0000	64.9769
Total	0.0307	0.1978	0.2488	1.2100e-003	0.0934	8.7000e-004	0.0943	0.0251	8.1000e-004	0.0259	0.0000	113.0685	113.0685	5.1200e-003	0.0000	113.1964

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					0.1743	0.0000	0.1743	0.0723	0.0000	0.0723	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0769	0.8116	0.6474	1.3400e-003		0.0348	0.0348		0.0323	0.0323	0.0000	117.4322	117.4322	0.0350	0.0000	118.3077
Total	0.0769	0.8116	0.6474	1.3400e-003	0.1743	0.0348	0.2091	0.0723	0.0323	0.1045	0.0000	117.4322	117.4322	0.0350	0.0000	118.3077

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
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Worker	0.0126	8.0800e-003	0.0969	3.5000e-004	0.0397	2.6000e-004	0.0400	0.0106	2.4000e-004	0.0108	0.0000	31.9642	31.9642	6.5000e-004	0.0000	31.9803
Total	0.0126	8.0800e-003	0.0969	3.5000e-004	0.0397	2.6000e-004	0.0400	0.0106	2.4000e-004	0.0108	0.0000	31.9642	31.9642	6.5000e-004	0.0000	31.9803

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	0.0352	0.3244	0.4237	6.7000e-004		0.0170	0.0170		0.0160	0.0160	0.0000	58.4866	58.4866	0.0158	0.0000	58.8820
Paving	1.4000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0366	0.3244	0.4237	6.7000e-004		0.0170	0.0170		0.0160	0.0160	0.0000	58.4866	58.4866	0.0158	0.0000	58.8820

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	0.0126	8.0800e-003	0.0969	3.5000e-004	0.0308	2.6000e-004	0.0310	8.3500e-003	2.4000e-004	8.5900e-003	0.0000	31.9642	31.9642	6.5000e-004	0.0000	31.9803
Total	0.0126	8.0800e-003	0.0969	3.5000e-004	0.0308	2.6000e-004	0.0310	8.3500e-003	2.4000e-004	8.5900e-003	0.0000	31.9642	31.9642	6.5000e-004	0.0000	31.9803

3.24 Phase 2: Landscaping/ TCO/ Punchlist - 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	0.0222	0.1741	0.1843	4.7000e-004		7.9400e-003	7.9400e-003		7.5000e-003	7.5000e-003	0.0000	40.8018	40.8018	0.0112	0.0000	41.0811
Total	0.0222	0.1741	0.1843	4.7000e-004		7.9400e-003	7.9400e-003		7.5000e-003	7.5000e-003	0.0000	40.8018	40.8018	0.0112	0.0000	41.0811

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2400e-003	0.1139	0.0326	3.1000e-004	7.9600e-003	2.2000e-004	8.1800e-003	2.3000e-003	2.1000e-004	2.5100e-003	0.0000	30.2270	30.2270	2.3900e-003	0.0000	30.2868
Worker	0.0154	9.9300e-003	0.1192	4.3000e-004	0.0489	3.2000e-004	0.0492	0.0130	2.9000e-004	0.0133	0.0000	39.3083	39.3083	7.9000e-004	0.0000	39.3281
Total	0.0187	0.1238	0.1518	7.4000e-004	0.0568	5.4000e-004	0.0574	0.0153	5.0000e-004	0.0158	0.0000	69.5353	69.5353	3.1800e-003	0.0000	69.6150

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
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Category	tons/yr									MT/yr					
Off-Road	0.0222	0.1741	0.1843	4.7000e-004	7.9400e-003	7.9400e-003	7.9400e-003	7.5000e-003	7.5000e-003	0.0000	40.8017	40.8017	0.0112	0.0000	41.0810
Total	0.0222	0.1741	0.1843	4.7000e-004	7.9400e-003	7.9400e-003	7.9400e-003	7.5000e-003	7.5000e-003	0.0000	40.8017	40.8017	0.0112	0.0000	41.0810

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2400e-003	0.1139	0.0326	3.1000e-004	6.4900e-003	2.2000e-004	6.7100e-003	1.9400e-003	2.1000e-004	2.1400e-003	0.0000	30.2270	30.2270	2.3900e-003	0.0000	30.2868
Worker	0.0154	9.9300e-003	0.1192	4.3000e-004	0.0378	3.2000e-004	0.0382	0.0103	2.9000e-004	0.0106	0.0000	39.3083	39.3083	7.9000e-004	0.0000	39.3281
Total	0.0187	0.1238	0.1518	7.4000e-004	0.0443	5.4000e-004	0.0449	0.0122	5.0000e-004	0.0127	0.0000	69.5353	69.5353	3.1800e-003	0.0000	69.6150

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Diversity

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	0.2533	0.9437	3.2315	0.0130	1.2763	9.2100e-003	1.2855	0.3418	8.5400e-003	0.3503	0.0000	1,195.5963	1,195.5963	0.0475	0.0000	1,196.7832
Mitigated	0.2533	0.9437	3.2315	0.0130	1.2763	9.2100e-003	1.2855	0.3418	8.5400e-003	0.3503	0.0000	1,195.5963	1,195.5963	0.0475	0.0000	1,196.7832
Unmitigated	0.2704	1.0280	3.6895	0.0152	1.5045	0.0107	1.5151	0.4029	9.8700e-003	0.4128	0.0000	1,398.8777	1,398.8777	0.0547	0.0000	1,400.2441

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
City Park	0.00	0.00	0.00		
Condo/Townhouse High Rise	1,086.80	1,086.80	1,086.80	3,713,761	3,150,619
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	132.96	132.96	132.96	252,969	214,610
Total	1,219.76	1,219.76	1,219.76	3,966,730	3,365,228

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Parking Lot	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
City Park	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Condo/Townhouse High Rise	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Strip Mall	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	6030	3.0000e-005	3.0000e-004	2.5000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3218	0.3218	1.0000e-005	1.0000e-005	0.3237
Total		0.0197	0.1686	0.0719	1.0700e-003		0.0136	0.0136		0.0136	0.0136	0.0000	195.2077	195.2077	3.7500e-003	3.5800e-003	196.3678

Mitigated

	Natural Gas 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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	3.03102e+006	0.0163	0.1397	0.0594	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	161.7469	161.7469	3.1000e-003	2.9700e-003	162.7081
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	5223.6	3.0000e-005	2.6000e-004	2.2000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2788	0.2788	1.0000e-005	1.0000e-005	0.2804
Total		0.0164	0.1399	0.0597	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	162.0257	162.0257	3.1100e-003	2.9800e-003	162.9885

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	1.16744e+006	371.9703	0.0154	3.1800e-003	373.3010

Enclosed Parking with Elevator	1.32104e+006	420.9117	0.0174	3.6000e-003	422.4175
Parking Lot	41888	13.3464	5.5000e-004	1.1000e-004	13.3942
Strip Mall	35160	11.2027	4.6000e-004	1.0000e-004	11.2428
Total		817.4310	0.0338	6.9900e-003	820.3554

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	1.152e+006	367.0532	0.0152	3.1400e-003	368.3664
Enclosed Parking with Elevator	1.10591e+006	352.3668	0.0146	3.0100e-003	353.6274
Parking Lot	41888	13.3464	5.5000e-004	1.1000e-004	13.3942
Strip Mall	32581.2	10.3811	4.3000e-004	9.0000e-005	10.4182
Total		743.1475	0.0307	6.3500e-003	745.8061

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	1.1427	0.0796	2.7127	4.5000e-004		0.0188	0.0188		0.0188	0.0188	0.0000	60.5872	60.5872	5.3400e-003	1.0300e-003	61.0277
Unmitigated	1.1427	0.0796	2.7127	4.5000e-004		0.0188	0.0188		0.0188	0.0188	0.0000	60.5872	60.5872	5.3400e-003	1.0300e-003	61.0277

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	0.0887					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9665					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	5.6800e-003	0.0485	0.0207	3.1000e-004		3.9200e-003	3.9200e-003		3.9200e-003	3.9200e-003	0.0000	56.1921	56.1921	1.0800e-003	1.0300e-003	56.5260
Landscaping	0.0818	0.0310	2.6920	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3951	4.3951	4.2700e-003	0.0000	4.5017
Total	1.1427	0.0796	2.7127	4.5000e-004		0.0188	0.0188		0.0188	0.0188	0.0000	60.5872	60.5872	5.3500e-003	1.0300e-003	61.0277

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	0.0887					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9665					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	5.6800e-003	0.0485	0.0207	3.1000e-004		3.9200e-003	3.9200e-003		3.9200e-003	3.9200e-003	0.0000	56.1921	56.1921	1.0800e-003	1.0300e-003	56.5260
Landscaping	0.0818	0.0310	2.6920	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3951	4.3951	4.2700e-003	0.0000	4.5017
Total	1.1427	0.0796	2.7127	4.5000e-004		0.0188	0.0188		0.0188	0.0188	0.0000	60.5872	60.5872	5.3500e-003	1.0300e-003	61.0277

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	101.2293	0.4514	0.0114	115.9085
Unmitigated	119.1514	0.5639	0.0142	137.4740

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.19148	4.2177	1.7000e-004	4.0000e-005	4.2328
Condo/Townhouse/High Rise	16.94 / 10.6796	113.4592	0.5565	0.0140	131.5297
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.222218 / 0.136198	1.4746	7.3000e-003	1.8000e-004	1.7116
Total		119.1514	0.5639	0.0142	137.4740

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.1188	3.9604	1.6000e-004	3.0000e-005	3.9746
Condo/Townhouse/High Rise	13.552 / 10.0281	96.0222	0.4454	0.0112	110.4974
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.177774 / 0.12789	1.2467	5.8400e-003	1.5000e-004	1.4365
Total		101.2293	0.4514	0.0114	115.9085

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.4677	0.7368	0.0000	30.8882
Unmitigated	24.9354	1.4736	0.0000	61.7764

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.09	0.0183	1.0800e-003	0.0000	0.0453
Condo/Townhouse High Rise	119.6	24.2777	1.4348	0.0000	60.1470
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.15	0.6394	0.0378	0.0000	1.5841

Total		24.9354	1.4736	0.0000	61.7764
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Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.045	9.1300e-003	5.4000e-004	0.0000	0.0226
Condo/Townhouse High Rise	59.8	12.1389	0.7174	0.0000	30.0735
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	1.575	0.3197	0.0189	0.0000	0.7921
Total		12.4677	0.7368	0.0000	30.8882

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Koll Center Residences - Orange County, Annual

**Koll Center Residences - Tier 3
Orange County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	490.00	Space	4.41	196,000.00	0
Parking Lot	119.00	Space	1.07	47,600.00	0
City Park	1.00	Acre	1.19	43,560.00	0
Condo/Townhouse High Rise	260.00	Dwelling Unit	3.41	260,000.00	744
Strip Mall	3.00	1000sqft	0.06	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8	Operational Year		2022	
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - Data provided from project.
- Land Use - Acreage adjusted per Project Applicant.
- Construction Phase - Adjusted per Project Applicant.
- Off-road Equipment -
- Off-road Equipment - Adjusted per Project Applicant.
- Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

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Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Equipment.

Off-road Equipment - Paving Equipment

Off-road Equipment -

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Off-road Equipment - Adjusted per Project Applicant.

Trips and VMT - Vendor trips account for crew and foreman trucks. Soil export to span duration of Phases A, 1, and 2

Demolition -

Grading - Construction export included in project description.

Architectural Coating -

Vehicle Trips - Adjusted per Traffic Report.

Woodstoves - No wood burning devices per Rule 445.

Area Coating - Adjusted to match parking area.

Energy Use -

Construction Off-road Equipment Mitigation - Fugitive Dust mitigation per Rule 403. Engine Tier 3 due to NOx over the SCAQMD Threshold prior to this mitigation measure.

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	14616	25824
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
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tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.4848	4.6221	3.5019	0.0122	0.5157	0.1358	0.6515	0.1365	0.1291	0.2656	0.0000	1,138.3096	1,138.3096	0.1388	0.0000	1,141.7799
2019	0.8830	6.9074	6.6380	0.0222	1.1805	0.2049	1.3854	0.3173	0.2001	0.5174	0.0000	2,054.0400	2,054.0400	0.1460	0.0000	2,057.6899
2020	0.5463	4.6195	4.5070	0.0167	0.9259	0.1083	1.0342	0.2478	0.1034	0.3511	0.0000	1,552.0984	1,552.0984	0.1281	0.0000	1,555.3002
2021	1.3285	10.5229	10.5621	0.0316	1.8731	0.3596	2.2327	0.5624	0.3485	0.9110	0.0000	2,866.0774	2,866.0774	0.2413	0.0000	2,872.1099
2022	0.3370	2.6333	2.8788	0.0100	0.9789	0.0710	1.0498	0.3225	0.0661	0.3886	0.0000	923.9481	923.9481	0.0974	0.0000	926.3829
Maximum	1.3285	10.5229	10.5621	0.0316	1.8731	0.3596	2.2327	0.5624	0.3485	0.9110	0.0000	2,866.0774	2,866.0774	0.2413	0.0000	2,872.1099

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					
2018	0.3111	3.9807	4.0329	0.0122	0.3967	0.1050	0.5017	0.1083	0.1043	0.2126	0.0000	1,138.3092	1,138.3092	0.1388	0.0000	1,141.7795
2019	0.5966	6.1307	6.7559	0.0222	0.9216	0.1717	1.0933	0.2537	0.1702	0.4239	0.0000	2,054.0396	2,054.0396	0.1460	0.0000	2,057.6894
2020	0.4171	4.3758	4.6898	0.0167	0.7197	0.1032	0.8229	0.1977	0.1023	0.2999	0.0000	1,552.0981	1,552.0981	0.1281	0.0000	1,555.2999
2021	0.7784	9.1263	11.0099	0.0316	1.3165	0.3463	1.6628	0.3866	0.3454	0.7319	0.0000	2,866.0762	2,866.0762	0.2413	0.0000	2,872.1087
2022	0.2528	2.5095	3.1817	0.0100	0.6199	0.0697	0.6897	0.1950	0.0694	0.2643	0.0000	923.9478	923.9478	0.0974	0.0000	926.3826
Maximum	0.7784	9.1263	11.0099	0.0316	1.3165	0.3463	1.6628	0.3866	0.3454	0.7319	0.0000	2,866.0762	2,866.0762	0.2413	0.0000	2,872.1087

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	34.18	10.86	-5.63	0.00	27.39	9.50	24.92	28.07	6.58	20.59	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)
4	10-1-2018	12-31-2018	0.1046	0.0745
11	7-1-2020	9-30-2020	0.1569	0.1302
16	10-1-2021	12-31-2021	2.0769	1.4527
17	1-1-2022	3-31-2022	1.1354	0.9212
		Highest	2.0769	1.4527

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
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Category	tons/yr									MT/yr						
Area	1.1427	0.0796	2.7127	4.5000e-004		0.0188	0.0188		0.0188	0.0188	0.0000	60.5872	60.5872	5.3400e-003	1.0300e-003	61.0277
Energy	0.0197	0.1686	0.0719	1.0800e-003		0.0136	0.0136		0.0136	0.0136	0.0000	1,012.6388	1,012.6388	0.0375	0.0106	1,016.7232
Mobile	0.3071	1.3388	4.1793	0.0163	1.5045	0.0120	1.5165	0.4029	0.0111	0.4141	0.0000	1,498.4992	1,498.4992	0.0612	0.0000	1,500.0302
Waste						0.0000	0.0000		0.0000	0.0000	24.9354	0.0000	24.9354	1.4736	0.0000	61.7764
Water						0.0000	0.0000		0.0000	0.0000	5.4448	113.7066	119.1514	0.5639	0.0142	137.4740
Total	1.4696	1.5869	6.9638	0.0178	1.5045	0.0444	1.5489	0.4029	0.0436	0.4465	30.3802	2,685.4318	2,715.8120	2.1416	0.0258	2,777.0316

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr									MT/yr						
Area	1.1427	0.0796	2.7127	4.5000e-004		0.0188	0.0188		0.0188	0.0188	0.0000	60.5872	60.5872	5.3400e-003	1.0300e-003	61.0277
Energy	0.0164	0.1399	0.0597	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	905.1731	905.1731	0.0338	9.3200e-003	908.7946
Mobile	0.2878	1.2164	3.6644	0.0139	1.2764	0.0104	1.2867	0.3418	9.6200e-003	0.3514	0.0000	1,280.7088	1,280.7088	0.0533	0.0000	1,282.0422
Waste						0.0000	0.0000		0.0000	0.0000	12.4677	0.0000	12.4677	0.7368	0.0000	30.8882
Water						0.0000	0.0000		0.0000	0.0000	4.3558	96.8734	101.2293	0.4514	0.0114	115.9085
Total	1.4469	1.4359	6.4367	0.0152	1.2764	0.0404	1.3168	0.3418	0.0397	0.3815	16.8235	2,343.3425	2,360.1660	1.2807	0.0217	2,398.6612

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.55	9.52	7.57	14.34	15.16	8.90	14.98	15.16	8.82	14.55	44.62	12.74	13.10	40.20	15.64	13.62

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 A: Site Clearing/ Excavation	Demolition	1/1/2018	1/31/2018	5	23	
2	Phase A: Concrete	Grading	2/1/2018	8/31/2018	5	152	
3	Phase A: Rough/ Finish	Building Construction	4/1/2018	9/30/2018	5	130	
4	Phase A: Landscaping/ TCO/ Punchlist	Building Construction	10/1/2018	10/31/2018	5	23	
5	Phase 1: Site Demolition/ Clearing	Demolition	11/1/2018	11/15/2018	5	11	
6	Phase 1: Shoring	Grading	11/16/2018	11/30/2018	5	11	
7	Phase 1: Excavation	Building Construction	12/1/2018	1/31/2019	5	44	
8	Phase 1: Foundation	Building Construction	2/1/2019	3/31/2019	5	41	
9	Phase 1: Structural Concrete	Building Construction	4/1/2019	1/31/2020	5	220	
10	Phase 1: Rough Interior Fit Out	Building Construction	7/1/2019	4/30/2020	5	219	
11	Phase 1: Interior Finish Fit Out	Building Construction	10/1/2019	7/31/2020	5	219	
12	Phase 1: Landscaping/ TCO/ Punchlist	Building Construction	8/1/2020	8/31/2020	5	21	
13	Phase 2: Site Demolition/ Clearing	Demolition	9/1/2020	9/15/2020	5	11	
14	Phase 2: Shoring	Grading	9/16/2020	10/1/2020	5	12	
15	Phase 2: Excavation	Building Construction	10/2/2020	12/1/2020	5	43	
16	Phase 2: Foundation	Building Construction	12/2/2020	2/1/2021	5	44	
17	Phase 2: Structural Concrete	Building Construction	2/2/2021	12/6/2021	5	220	
18	Phase 2: Rough Interior Fit Out	Building Construction	5/2/2021	3/2/2022	5	218	
19	Phase 2: Interior Finish Fit Out	Building Construction	8/4/2021	6/2/2022	5	217	
20	Phase 3: Site Demolition/ Clearing	Demolition	10/1/2021	10/14/2021	5	10	
21	Phase 3: Grading	Grading	10/15/2021	2/23/2022	5	94	
22	Phase 3: Reconfigure Parking Lot	Paving	2/24/2022	7/5/2022	5	94	
23	Phase 2: Landscaping/ TCO/ Punchlist	Building Construction	6/3/2022	7/5/2022	5	23	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.48

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 A: Site Clearing/ Excavation	Air Compressors	1	8.00	78	0.48
Phase A: Site Clearing/ Excavation	Concrete/Industrial Saws	1	8.00	81	0.73
Phase A: Site Clearing/ Excavation	Excavators	1	8.00	158	0.38
Phase A: Site Clearing/ Excavation	Rubber Tired Dozers	0	8.00	247	0.40
Phase A: Site Clearing/ Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase A: Concrete	Air Compressors	1	8.00	78	0.48
Phase A: Concrete	Excavators	0	8.00	158	0.38
Phase A: Concrete	Generator Sets	1	8.00	84	0.74
Phase A: Concrete	Graders	0	8.00	187	0.41
Phase A: Concrete	Off-Highway Trucks	2	8.00	402	0.38
Phase A: Concrete	Rubber Tired Dozers	0	8.00	247	0.40
Phase A: Concrete	Scrapers	0	8.00	367	0.48
Phase A: Concrete	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Phase A: Rough/ Finish	Cranes	0	7.00	231	0.29
Phase A: Rough/ Finish	Excavators	0	8.00	158	0.38
Phase A: Rough/ Finish	Forklifts	0	8.00	89	0.20
Phase A: Rough/ Finish	Generator Sets	0	8.00	84	0.74
Phase A: Rough/ Finish	Graders	0	8.00	187	0.41
Phase A: Rough/ Finish	Other Construction Equipment	1	2.00	49	0.42
Phase A: Rough/ Finish	Rubber Tired Dozers	0	8.00	247	0.40
Phase A: Rough/ Finish	Scrapers	0	8.00	367	0.48
Phase A: Rough/ Finish	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Phase A: Rough/ Finish	Welders	0	8.00	46	0.45
Phase A: Landscaping/ TCO/ Punchlist	Air Compressors	1	8.00	78	0.48
Phase A: Landscaping/ TCO/ Punchlist	Cranes	0	7.00	231	0.29

Phase A: Landscaping/ TCO/ Punchlist	Forklifts	0	8.00	89	0.20
Phase A: Landscaping/ TCO/ Punchlist	Generator Sets	0	8.00	84	0.74
Phase A: Landscaping/ TCO/ Punchlist	Off-Highway Trucks	1	8.00	402	0.38
Phase A: Landscaping/ TCO/ Punchlist	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase A: Landscaping/ TCO/ Punchlist	Welders	0	8.00	46	0.45
Phase 1: Site Demolition/ Clearing	Air Compressors	1	8.00	78	0.48
Phase 1: Site Demolition/ Clearing	Concrete/Industrial Saws	1	8.00	81	0.73
Phase 1: Site Demolition/ Clearing	Excavators	1	8.00	158	0.38
Phase 1: Site Demolition/ Clearing	Pavers	0	8.00	130	0.42
Phase 1: Site Demolition/ Clearing	Paving Equipment	0	8.00	132	0.36
Phase 1: Site Demolition/ Clearing	Rollers	0	8.00	80	0.38
Phase 1: Site Demolition/ Clearing	Rubber Tired Dozers	0	8.00	247	0.40
Phase 1: Site Demolition/ Clearing	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 1: Shoring	Air Compressors	0	6.00	78	0.48
Phase 1: Shoring	Bore/Drill Rigs	2	8.00	221	0.50
Phase 1: Shoring	Cranes	1	8.00	231	0.29
Phase 1: Shoring	Excavators	0	8.00	158	0.38
Phase 1: Shoring	Graders	0	8.00	187	0.41
Phase 1: Shoring	Rubber Tired Dozers	0	8.00	247	0.40
Phase 1: Shoring	Scrapers	0	8.00	367	0.48
Phase 1: Shoring	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 1: Shoring	Welders	2	8.00	46	0.45
Phase 1: Excavation	Cranes	0	7.00	231	0.29
Phase 1: Excavation	Excavators	2	8.00	158	0.38
Phase 1: Excavation	Forklifts	0	8.00	89	0.20
Phase 1: Excavation	Generator Sets	0	8.00	84	0.74
Phase 1: Excavation	Skid Steer Loaders	1	8.00	65	0.37
Phase 1: Excavation	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Phase 1: Excavation	Welders	0	8.00	46	0.45
Phase 1: Foundation	Cement and Mortar Mixers	2	8.00	172	0.42

Phase 1: Foundation	Concrete/Industrial Saws	2	8.00	81	0.73
Phase 1: Foundation	Cranes	1	8.00	231	0.29
Phase 1: Foundation	Forklifts	0	8.00	89	0.20
Phase 1: Foundation	Generator Sets	0	8.00	84	0.74
Phase 1: Foundation	Plate Compactors	2	8.00	8	0.43
Phase 1: Foundation	Pumps	2	8.00	84	0.74
Phase 1: Foundation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Phase 1: Foundation	Welders	2	8.00	46	0.45
Phase 1: Structural Concrete	Cement and Mortar Mixers	2	8.00	172	0.42
Phase 1: Structural Concrete	Concrete/Industrial Saws	2	8.00	81	0.73
Phase 1: Structural Concrete	Cranes	1	8.00	231	0.29
Phase 1: Structural Concrete	Forklifts	0	8.00	89	0.20
Phase 1: Structural Concrete	Generator Sets	0	8.00	84	0.74
Phase 1: Structural Concrete	Pumps	2	8.00	84	0.74
Phase 1: Structural Concrete	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Phase 1: Structural Concrete	Welders	2	8.00	46	0.45
Phase 1: Rough Interior Fit Out	Cranes	0	7.00	231	0.29
Phase 1: Rough Interior Fit Out	Forklifts	0	8.00	89	0.20
Phase 1: Rough Interior Fit Out	Generator Sets	0	8.00	84	0.74
Phase 1: Rough Interior Fit Out	Other Construction Equipment	1	2.00	49	0.42
Phase 1: Rough Interior Fit Out	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Phase 1: Rough Interior Fit Out	Welders	0	8.00	46	0.45
Phase 1: Interior Finish Fit Out	Cranes	0	7.00	231	0.29
Phase 1: Interior Finish Fit Out	Forklifts	0	8.00	89	0.20
Phase 1: Interior Finish Fit Out	Generator Sets	0	8.00	84	0.74
Phase 1: Interior Finish Fit Out	Other Construction Equipment	1	2.00	49	0.42
Phase 1: Interior Finish Fit Out	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Phase 1: Interior Finish Fit Out	Welders	0	8.00	46	0.45
Phase 1: Landscaping/ TCO/ Punchlist	Air Compressors	1	8.00	78	0.48
Phase 1: Landscaping/ TCO/ Punchlist	Cranes	0	7.00	231	0.29

Phase 1: Landscaping/ TCO/ Punchlist	Forklifts	0	8.00	89	0.20
Phase 1: Landscaping/ TCO/ Punchlist	Generator Sets	0	8.00	84	0.74
Phase 1: Landscaping/ TCO/ Punchlist	Off-Highway Trucks	1	8.00	402	0.38
Phase 1: Landscaping/ TCO/ Punchlist	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 1: Landscaping/ TCO/ Punchlist	Welders	0	8.00	78	0.48
Phase 2: Site Demolition/ Clearing	Air Compressors	2	8.00	78	0.48
Phase 2: Site Demolition/ Clearing	Concrete/Industrial Saws	2	8.00	81	0.73
Phase 2: Site Demolition/ Clearing	Excavators	2	8.00	158	0.38
Phase 2: Site Demolition/ Clearing	Rubber Tired Dozers	0	8.00	247	0.40
Phase 2: Site Demolition/ Clearing	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 2: Shoring	Bore/Drill Rigs	3	8.00	221	0.50
Phase 2: Shoring	Cranes	2	8.00	231	0.29
Phase 2: Shoring	Excavators	0	8.00	158	0.38
Phase 2: Shoring	Graders	0	8.00	187	0.41
Phase 2: Shoring	Rubber Tired Dozers	0	8.00	247	0.40
Phase 2: Shoring	Scrapers	0	8.00	367	0.48
Phase 2: Shoring	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2: Shoring	Welders	3	8.00	46	0.45
Phase 2: Excavation	Cranes	0	7.00	231	0.29
Phase 2: Excavation	Excavators	4	8.00	158	0.38
Phase 2: Excavation	Forklifts	0	8.00	89	0.20
Phase 2: Excavation	Generator Sets	0	8.00	84	0.74
Phase 2: Excavation	Skid Steer Loaders	2	8.00	65	0.37
Phase 2: Excavation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 2: Excavation	Welders	0	8.00	46	0.45
Phase 2: Foundation	Cement and Mortar Mixers	4	8.00	9	0.56
Phase 2: Foundation	Concrete/Industrial Saws	4	8.00	81	0.73
Phase 2: Foundation	Cranes	2	8.00	231	0.29
Phase 2: Foundation	Forklifts	0	8.00	89	0.20
Phase 2: Foundation	Generator Sets	0	8.00	84	0.74

Phase 2: Foundation	Plate Compactors	4	8.00	8	0.43
Phase 2: Foundation	Pumps	4	8.00	84	0.74
Phase 2: Foundation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Phase 2: Foundation	Welders	4	8.00	46	0.45
Phase 2: Structural Concrete	Cement and Mortar Mixers	4	8.00	9	0.56
Phase 2: Structural Concrete	Concrete/Industrial Saws	4	8.00	81	0.73
Phase 2: Structural Concrete	Cranes	2	8.00	231	0.29
Phase 2: Structural Concrete	Forklifts	0	8.00	89	0.20
Phase 2: Structural Concrete	Generator Sets	0	8.00	84	0.74
Phase 2: Structural Concrete	Pumps	4	8.00	84	0.74
Phase 2: Structural Concrete	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Phase 2: Structural Concrete	Welders	4	8.00	46	0.45
Phase 2: Rough Interior Fit Out	Cranes	0	7.00	231	0.29
Phase 2: Rough Interior Fit Out	Forklifts	0	8.00	89	0.20
Phase 2: Rough Interior Fit Out	Generator Sets	0	8.00	84	0.74
Phase 2: Rough Interior Fit Out	Other Construction Equipment	2	2.00	172	0.42
Phase 2: Rough Interior Fit Out	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Phase 2: Rough Interior Fit Out	Welders	0	8.00	46	0.45
Phase 2: Interior Finish Fit Out	Cranes	0	7.00	231	0.29
Phase 2: Interior Finish Fit Out	Forklifts	0	8.00	89	0.20
Phase 2: Interior Finish Fit Out	Generator Sets	0	8.00	84	0.74
Phase 2: Interior Finish Fit Out	Other Construction Equipment	2	2.00	49	0.42
Phase 2: Interior Finish Fit Out	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Phase 2: Interior Finish Fit Out	Welders	0	8.00	46	0.45
Phase 3: Site Demolition/ Clearing	Concrete/Industrial Saws	1	8.00	81	0.73
Phase 3: Site Demolition/ Clearing	Excavators	3	8.00	158	0.38
Phase 3: Site Demolition/ Clearing	Rubber Tired Dozers	2	8.00	247	0.40
Phase 3: Grading	Cranes	0	7.00	231	0.29
Phase 3: Grading	Excavators	2	8.00	158	0.38
Phase 3: Grading	Forklifts	0	8.00	89	0.20

Phase 3: Grading	Generator Sets	1	8.00	84	0.74
Phase 3: Grading	Graders	1	8.00	187	0.41
Phase 3: Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 3: Grading	Scrapers	2	8.00	367	0.48
Phase 3: Grading	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 3: Grading	Welders	0	8.00	46	0.45
Phase 3: Reconfigure Parking Lot	Air Compressors	1	6.00	78	0.48
Phase 3: Reconfigure Parking Lot	Pavers	1	8.00	130	0.42
Phase 3: Reconfigure Parking Lot	Paving Equipment	1	8.00	132	0.36
Phase 3: Reconfigure Parking Lot	Rollers	1	8.00	80	0.38
Phase 2: Landscaping/ TCO/ Punchlist	Air Compressors	2	8.00	78	0.48
Phase 2: Landscaping/ TCO/ Punchlist	Cranes	0	7.00	23	0.29
Phase 2: Landscaping/ TCO/ Punchlist	Forklifts	0	8.00	89	0.20
Phase 2: Landscaping/ TCO/ Punchlist	Generator Sets	0	8.00	84	0.74
Phase 2: Landscaping/ TCO/ Punchlist	Off-Highway Trucks	2	8.00	402	0.38
Phase 2: Landscaping/ TCO/ Punchlist	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2: Landscaping/ TCO/ Punchlist	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase A: Site Clearing/ Excavation	5	13.00	0.00	39.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase A: Concrete	4	10.00	1.00	3,017.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase A: Rough/ Finish	1	387.00	114.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase A: Landscaping/ TCO/ Punchlist	3	387.00	107.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1: Site Demolition/ Clearing	5	13.00	1.00	88.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1: Shoring	6	15.00	1.00	650.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1: Excavation	5	387.00	107.00	2,925.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1: Foundation	11	387.00	106.00	2,925.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1: Structural Concrete	9	387.00	106.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Phase 1: Rough Interior Fit Out	1	387.00	114.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1: Interior Finish Fit Out	1	387.00	114.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1: Landscaping/TCO/ Punchlist	3	387.00	108.00	570.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2: Site Demolition/ Clearing	10	25.00	2.00	69.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2: Shoring	10	25.00	3.00	530.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2: Excavation	10	387.00	108.00	2,386.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2: Foundation	22	387.00	106.00	2,386.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2: Structural Concrete	18	387.00	106.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2: Rough Interior Fit Out	2	387.00	122.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2: Interior Finish Fit Out	2	387.00	122.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3: Site Demolition/ Clearing	6	15.00	0.00	38.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3: Grading	10	387.00	106.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3: Reconfigure Parking Lot	4	77.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2: Landscaping/TCO/ Punchlist	6	387.00	110.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Phase A: Site Clearing/ Excavation - 2018

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					4.2300e-003	0.0000	4.2300e-003	6.4000e-004	0.0000	6.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.1719	0.1627	2.5000e-004		0.0114	0.0114		0.0109	0.0109	0.0000	22.0448	22.0448	4.5700e-003	0.0000	22.1591
Total	0.0200	0.1719	0.1627	2.5000e-004	4.2300e-003	0.0114	0.0156	6.4000e-004	0.0109	0.0116	0.0000	22.0448	22.0448	4.5700e-003	0.0000	22.1591

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	6.2900e-003	1.4300e-003	2.0000e-005	3.3000e-004	2.0000e-005	3.6000e-004	9.0000e-005	2.0000e-005	1.2000e-004	0.0000	1.5302	1.5302	1.6000e-004	0.0000	1.5342
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	5.1000e-004	5.5800e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5074	1.5074	4.0000e-005	0.0000	1.5084
Total	8.5000e-004	6.8000e-003	7.0100e-003	4.0000e-005	1.9700e-003	3.0000e-005	2.0100e-003	5.3000e-004	3.0000e-005	5.7000e-004	0.0000	3.0376	3.0376	2.0000e-004	0.0000	3.0427

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					1.8100e-003	0.0000	1.8100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5600e-003	0.1218	0.1714	2.5000e-004		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	22.0448	22.0448	4.5700e-003	0.0000	22.1591
Total	5.5600e-003	0.1218	0.1714	2.5000e-004	1.8100e-003	7.9200e-003	9.7300e-003	2.7000e-004	7.9200e-003	8.1900e-003	0.0000	22.0448	22.0448	4.5700e-003	0.0000	22.1591

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	6.2900e-003	1.4300e-003	2.0000e-005	2.7000e-004	2.0000e-005	2.9000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.5302	1.5302	1.6000e-004	0.0000	1.5342
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	5.1000e-004	5.5800e-003	2.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.5074	1.5074	4.0000e-005	0.0000	1.5084
Total	8.5000e-004	6.8000e-003	7.0100e-003	4.0000e-005	1.5400e-003	3.0000e-005	1.5700e-003	4.3000e-004	3.0000e-005	4.6000e-004	0.0000	3.0376	3.0376	2.0000e-004	0.0000	3.0427

3.3 Phase A: Concrete - 2018

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					1.3600e-003	0.0000	1.3600e-003	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1862	1.7813	1.1113	2.8100e-003		0.0814	0.0814		0.0777	0.0777	0.0000	252.1723	252.1723	0.0626	0.0000	253.7382
Total	0.1862	1.7813	1.1113	2.8100e-003	1.3600e-003	0.0814	0.0827	2.1000e-004	0.0777	0.0779	0.0000	252.1723	252.1723	0.0626	0.0000	253.7382

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	0.0132	0.4869	0.1103	1.1800e-003	0.0259	1.8900e-003	0.0278	7.0900e-003	1.8100e-003	8.9000e-003	0.0000	118.3709	118.3709	0.0126	0.0000	118.6857
Vendor	3.1000e-004	9.2500e-003	2.5500e-003	2.0000e-005	4.8000e-004	7.0000e-005	5.5000e-004	1.4000e-004	6.0000e-005	2.0000e-004	0.0000	1.8722	1.8722	1.7000e-004	0.0000	1.8764
Worker	3.4500e-003	2.6100e-003	0.0284	8.0000e-005	8.3400e-003	6.0000e-005	8.4000e-003	2.2200e-003	5.0000e-005	2.2700e-003	0.0000	7.6632	7.6632	2.0000e-004	0.0000	7.6683
Total	0.0169	0.4987	0.1412	1.2800e-003	0.0347	2.0200e-003	0.0367	9.4500e-003	1.9200e-003	0.0114	0.0000	127.9063	127.9063	0.0130	0.0000	128.2304

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-004	0.0000	5.8000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0652	1.3159	1.5587	2.8100e-003		0.0617	0.0617		0.0617	0.0617	0.0000	252.1720	252.1720	0.0626	0.0000	253.7379
Total	0.0652	1.3159	1.5587	2.8100e-003	5.8000e-004	0.0617	0.0623	9.0000e-005	0.0617	0.0618	0.0000	252.1720	252.1720	0.0626	0.0000	253.7379

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	0.0132	0.4869	0.1103	1.1800e-003	0.0208	1.8900e-003	0.0227	5.8400e-003	1.8100e-003	7.6500e-003	0.0000	118.3709	118.3709	0.0126	0.0000	118.6857

Vendor	3.1000e-004	9.2500e-003	2.5500e-003	2.0000e-005	3.9000e-004	7.0000e-005	4.6000e-004	1.2000e-004	6.0000e-005	1.8000e-004	0.0000	1.8722	1.8722	1.7000e-004	0.0000	1.8764
Worker	3.4500e-003	2.6100e-003	0.0284	8.0000e-005	6.4600e-003	6.0000e-005	6.5200e-003	1.7500e-003	5.0000e-005	1.8100e-003	0.0000	7.6632	7.6632	2.0000e-004	0.0000	7.6683
Total	0.0169	0.4987	0.1412	1.2800e-003	0.0276	2.0200e-003	0.0297	7.7100e-003	1.9200e-003	9.6400e-003	0.0000	127.9063	127.9063	0.0130	0.0000	128.2304

3.4 Phase A: Rough/ Finish - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.8900e-003	0.0311	0.0327	3.0000e-005		2.6500e-003	2.6500e-003		2.4400e-003	2.4400e-003	0.0000	2.9373	2.9373	9.1000e-004	0.0000	2.9601
Total	6.8900e-003	0.0311	0.0327	3.0000e-005		2.6500e-003	2.6500e-003		2.4400e-003	2.4400e-003	0.0000	2.9373	2.9373	9.1000e-004	0.0000	2.9601

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0306	0.9022	0.2490	1.8600e-003	0.0467	6.5900e-003	0.0532	0.0135	6.3000e-003	0.0198	0.0000	182.5429	182.5429	0.0164	0.0000	182.9527
Worker	0.1142	0.0864	0.9391	2.8100e-003	0.2762	1.8600e-003	0.2780	0.0733	1.7100e-003	0.0751	0.0000	253.6422	253.6422	6.7400e-003	0.0000	253.8106
Total	0.1447	0.9886	1.1880	4.6700e-003	0.3228	8.4500e-003	0.3313	0.0868	8.0100e-003	0.0948	0.0000	436.1850	436.1850	0.0231	0.0000	436.7633

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	1.7100e-003	0.0273	0.0242	3.0000e-005		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	2.9373	2.9373	9.1000e-004	0.0000	2.9601
Total	1.7100e-003	0.0273	0.0242	3.0000e-005		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	2.9373	2.9373	9.1000e-004	0.0000	2.9601

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0306	0.9022	0.2490	1.8600e-003	0.0381	6.5900e-003	0.0446	0.0113	6.3000e-003	0.0177	0.0000	182.5429	182.5429	0.0164	0.0000	182.9527
Worker	0.1142	0.0864	0.9391	2.8100e-003	0.2139	1.8600e-003	0.2158	0.0581	1.7100e-003	0.0598	0.0000	253.6422	253.6422	6.7400e-003	0.0000	253.8106
Total	0.1447	0.9886	1.1880	4.6700e-003	0.2520	8.4500e-003	0.2604	0.0694	8.0100e-003	0.0774	0.0000	436.1850	436.1850	0.0231	0.0000	436.7633

3.5 Phase A: Landscaping/ TCO/ Punchlist - 2018

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	0.0165	0.1567	0.1036	2.3000e-004		7.9500e-003	7.9500e-003		7.4900e-003	7.4900e-003	0.0000	21.0495	21.0495	5.7100e-003	0.0000	21.1921
Total	0.0165	0.1567	0.1036	2.3000e-004		7.9500e-003	7.9500e-003		7.4900e-003	7.4900e-003	0.0000	21.0495	21.0495	5.7100e-003	0.0000	21.1921

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	5.0800e-003	0.1498	0.0414	3.1000e-004	7.7500e-003	1.0900e-003	8.8400e-003	2.2300e-003	1.0500e-003	3.2800e-003	0.0000	30.3130	30.3130	2.7200e-003	0.0000	30.3810
Worker	0.0202	0.0153	0.1661	5.0000e-004	0.0489	3.3000e-004	0.0492	0.0130	3.0000e-004	0.0133	0.0000	44.8752	44.8752	1.1900e-003	0.0000	44.9050
Total	0.0253	0.1651	0.2075	8.1000e-004	0.0566	1.4200e-003	0.0580	0.0152	1.3500e-003	0.0166	0.0000	75.1881	75.1881	3.9100e-003	0.0000	75.2860

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	5.5000e-003	0.1126	0.1356	2.3000e-004		5.5800e-003	5.5800e-003		5.5800e-003	5.5800e-003	0.0000	21.0494	21.0494	5.7100e-003	0.0000	21.1921

Total	5.5000e-003	0.1126	0.1356	2.3000e-004		5.5800e-003	5.5800e-003		5.5800e-003	5.5800e-003	0.0000	21.0494	21.0494	5.7100e-003	0.0000	21.1921
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0800e-003	0.1498	0.0414	3.1000e-004	6.3200e-003	1.0900e-003	7.4100e-003	1.8800e-003	1.0500e-003	2.9300e-003	0.0000	30.3130	30.3130	2.7200e-003	0.0000	30.3810
Worker	0.0202	0.0153	0.1661	5.0000e-004	0.0378	3.3000e-004	0.0382	0.0103	3.0000e-004	0.0106	0.0000	44.8752	44.8752	1.1900e-003	0.0000	44.9050
Total	0.0253	0.1651	0.2075	8.1000e-004	0.0442	1.4200e-003	0.0456	0.0122	1.3500e-003	0.0135	0.0000	75.1881	75.1881	3.9100e-003	0.0000	75.2860

3.6 Phase 1: Site Demolition/ Clearing - 2018

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					9.4800e-003	0.0000	9.4800e-003	1.4400e-003	0.0000	1.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5600e-003	0.0822	0.0778	1.2000e-004		5.4500e-003	5.4500e-003		5.2200e-003	5.2200e-003	0.0000	10.5432	10.5432	2.1900e-003	0.0000	10.5978
Total	9.5600e-003	0.0822	0.0778	1.2000e-004	9.4800e-003	5.4500e-003	0.0149	1.4400e-003	5.2200e-003	6.6600e-003	0.0000	10.5432	10.5432	2.1900e-003	0.0000	10.5978

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	3.8000e-004	0.0142	3.2200e-003	3.0000e-005	7.5000e-004	6.0000e-005	8.1000e-004	2.1000e-004	5.0000e-005	2.6000e-004	0.0000	3.4527	3.4527	3.7000e-004	0.0000	3.4618
Vendor	2.0000e-005	6.7000e-004	1.8000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1355	0.1355	1.0000e-005	0.0000	0.1358
Worker	3.2000e-004	2.5000e-004	2.6700e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.7210	0.7210	2.0000e-005	0.0000	0.7214
Total	7.2000e-004	0.0151	6.0700e-003	4.0000e-005	1.5600e-003	7.0000e-005	1.6400e-003	4.3000e-004	5.0000e-005	4.8000e-004	0.0000	4.3091	4.3091	4.0000e-004	0.0000	4.3191

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					4.0500e-003	0.0000	4.0500e-003	6.1000e-004	0.0000	6.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6600e-003	0.0583	0.0820	1.2000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	10.5432	10.5432	2.1900e-003	0.0000	10.5978
Total	2.6600e-003	0.0583	0.0820	1.2000e-004	4.0500e-003	3.7900e-003	7.8400e-003	6.1000e-004	3.7900e-003	4.4000e-003	0.0000	10.5432	10.5432	2.1900e-003	0.0000	10.5978

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
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Category	tons/yr										MT/yr					
	Hauling	3.8000e-004	0.0142	3.2200e-003	3.0000e-005	6.1000e-004	6.0000e-005	6.6000e-004	1.7000e-004	5.0000e-005	2.2000e-004	0.0000	3.4527	3.4527	3.7000e-004	0.0000
Vendor	2.0000e-005	6.7000e-004	1.8000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1355	0.1355	1.0000e-005	0.0000	0.1358
Worker	3.2000e-004	2.5000e-004	2.6700e-003	1.0000e-005	6.1000e-004	1.0000e-005	6.1000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.7210	0.7210	2.0000e-005	0.0000	0.7214
Total	7.2000e-004	0.0151	6.0700e-003	4.0000e-005	1.2500e-003	7.0000e-005	1.3000e-003	3.5000e-004	5.0000e-005	4.0000e-004	0.0000	4.3091	4.3091	4.0000e-004	0.0000	4.3191

3.7 Phase 1: Shoring - 2018

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					2.9400e-003	0.0000	2.9400e-003	4.5000e-004	0.0000	4.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0128	0.1166	0.0702	1.8000e-004		5.2000e-003	5.2000e-003		4.8900e-003	4.8900e-003	0.0000	15.9517	15.9517	4.7200e-003	0.0000	16.0696
Total	0.0128	0.1166	0.0702	1.8000e-004	2.9400e-003	5.2000e-003	8.1400e-003	4.5000e-004	4.8900e-003	5.3400e-003	0.0000	15.9517	15.9517	4.7200e-003	0.0000	16.0696

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	2.8400e-003	0.1049	0.0238	2.5000e-004	5.5700e-003	4.1000e-004	5.9800e-003	1.5300e-003	3.9000e-004	1.9200e-003	0.0000	25.5025	25.5025	2.7100e-003	0.0000	25.5703
Vendor	2.0000e-005	6.7000e-004	1.8000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1355	0.1355	1.0000e-005	0.0000	0.1358

Worker	3.7000e-004	2.8000e-004	3.0800e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8319	0.8319	2.0000e-005	0.0000	0.8324
Total	3.2300e-003	0.1058	0.0270	2.6000e-004	6.5100e-003	4.2000e-004	6.9300e-003	1.7800e-003	4.0000e-004	2.1800e-003	0.0000	26.4699	26.4699	2.7400e-003	0.0000	26.5385

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					1.2600e-003	0.0000	1.2600e-003	1.9000e-004	0.0000	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9300e-003	0.0929	0.1020	1.8000e-004		4.2500e-003	4.2500e-003		4.2500e-003	4.2500e-003	0.0000	15.9516	15.9516	4.7200e-003	0.0000	16.0696
Total	4.9300e-003	0.0929	0.1020	1.8000e-004	1.2600e-003	4.2500e-003	5.5100e-003	1.9000e-004	4.2500e-003	4.4400e-003	0.0000	15.9516	15.9516	4.7200e-003	0.0000	16.0696

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	2.8400e-003	0.1049	0.0238	2.5000e-004	4.4800e-003	4.1000e-004	4.8800e-003	1.2600e-003	3.9000e-004	1.6500e-003	0.0000	25.5025	25.5025	2.7100e-003	0.0000	25.5703
Vendor	2.0000e-005	6.7000e-004	1.8000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1355	0.1355	1.0000e-005	0.0000	0.1358
Worker	3.7000e-004	2.8000e-004	3.0800e-003	1.0000e-005	7.0000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.8319	0.8319	2.0000e-005	0.0000	0.8324
Total	3.2300e-003	0.1058	0.0270	2.6000e-004	5.2100e-003	4.2000e-004	5.6200e-003	1.4600e-003	4.0000e-004	1.8600e-003	0.0000	26.4699	26.4699	2.7400e-003	0.0000	26.5385

3.8 Phase 1: Excavation - 2018

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	0.0119	0.1261	0.1263	1.9000e-004		7.2000e-003	7.2000e-003		6.6200e-003	6.6200e-003	0.0000	17.0926	17.0926	5.3200e-003	0.0000	17.2256
Total	0.0119	0.1261	0.1263	1.9000e-004		7.2000e-003	7.2000e-003		6.6200e-003	6.6200e-003	0.0000	17.0926	17.0926	5.3200e-003	0.0000	17.2256

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	6.0900e-003	0.2253	0.0510	5.4000e-004	0.0219	8.7000e-004	0.0227	5.7100e-003	8.4000e-004	6.5500e-003	0.0000	54.7724	54.7724	5.8300e-003	0.0000	54.9181
Vendor	4.6400e-003	0.1368	0.0378	2.8000e-004	7.0700e-003	1.0000e-003	8.0700e-003	2.0400e-003	9.6000e-004	3.0000e-003	0.0000	27.6771	27.6771	2.4900e-003	0.0000	27.7392
Worker	0.0184	0.0140	0.1517	4.5000e-004	0.0446	3.0000e-004	0.0449	0.0119	2.8000e-004	0.0121	0.0000	40.9730	40.9730	1.0900e-003	0.0000	41.0002
Total	0.0292	0.3760	0.2405	1.2700e-003	0.0736	2.1700e-003	0.0757	0.0196	2.0800e-003	0.0217	0.0000	123.4224	123.4224	9.4100e-003	0.0000	123.6575

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
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Category	tons/yr									MT/yr						
Off-Road	4.6000e-003	0.0957	0.1418	1.9000e-004		5.5800e-003	5.5800e-003		5.5800e-003	5.5800e-003	0.0000	17.0925	17.0925	5.3200e-003	0.0000	17.2256
Total	4.6000e-003	0.0957	0.1418	1.9000e-004		5.5800e-003	5.5800e-003		5.5800e-003	5.5800e-003	0.0000	17.0925	17.0925	5.3200e-003	0.0000	17.2256

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	6.0900e-003	0.2253	0.0510	5.4000e-004	0.0169	8.7000e-004	0.0178	4.5000e-003	8.4000e-004	5.3400e-003	0.0000	54.7724	54.7724	5.8300e-003	0.0000	54.9181
Vendor	4.6400e-003	0.1368	0.0378	2.8000e-004	5.7700e-003	1.0000e-003	6.7700e-003	1.7200e-003	9.6000e-004	2.6800e-003	0.0000	27.6771	27.6771	2.4900e-003	0.0000	27.7392
Worker	0.0184	0.0140	0.1517	4.5000e-004	0.0346	3.0000e-004	0.0349	9.3800e-003	2.8000e-004	9.6500e-003	0.0000	40.9730	40.9730	1.0900e-003	0.0000	41.0002
Total	0.0292	0.3760	0.2405	1.2700e-003	0.0573	2.1700e-003	0.0594	0.0156	2.0800e-003	0.0177	0.0000	123.4224	123.4224	9.4100e-003	0.0000	123.6575

3.8 Phase 1: Excavation - 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					
Off-Road	0.0117	0.1217	0.1374	2.1000e-004		6.7100e-003	6.7100e-003		6.1700e-003	6.1700e-003	0.0000	18.4142	18.4142	5.8300e-003	0.0000	18.5599
Total	0.0117	0.1217	0.1374	2.1000e-004		6.7100e-003	6.7100e-003		6.1700e-003	6.1700e-003	0.0000	18.4142	18.4142	5.8300e-003	0.0000	18.5599

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	6.4300e-003	0.2340	0.0557	5.9000e-004	0.0221	8.8000e-004	0.0230	5.8100e-003	8.4000e-004	6.6500e-003	0.0000	59.4499	59.4499	6.3200e-003	0.0000	59.6078
Vendor	4.7000e-003	0.1424	0.0388	3.1000e-004	7.7500e-003	9.5000e-004	8.7000e-003	2.2300e-003	9.1000e-004	3.1400e-003	0.0000	30.1612	30.1612	2.6300e-003	0.0000	30.2270
Worker	0.0186	0.0136	0.1506	4.8000e-004	0.0489	3.3000e-004	0.0492	0.0130	3.1000e-004	0.0133	0.0000	43.6869	43.6869	1.0800e-003	0.0000	43.7138
Total	0.0297	0.3900	0.2450	1.3800e-003	0.0788	2.1600e-003	0.0809	0.0210	2.0600e-003	0.0231	0.0000	133.2980	133.2980	0.0100	0.0000	133.5486

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	5.0400e-003	0.1048	0.1553	2.1000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	18.4142	18.4142	5.8300e-003	0.0000	18.5599
Total	5.0400e-003	0.1048	0.1553	2.1000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	18.4142	18.4142	5.8300e-003	0.0000	18.5599

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	6.4300e-003	0.2340	0.0557	5.9000e-004	0.0172	8.8000e-004	0.0181	4.6000e-003	8.4000e-004	5.4400e-003	0.0000	59.4499	59.4499	6.3200e-003	0.0000	59.6078
Vendor	4.7000e-003	0.1424	0.0388	3.1000e-004	6.3200e-003	9.5000e-004	7.2700e-003	1.8800e-003	9.1000e-004	2.7900e-003	0.0000	30.1612	30.1612	2.6300e-003	0.0000	30.2270
Worker	0.0186	0.0136	0.1506	4.8000e-004	0.0378	3.3000e-004	0.0382	0.0103	3.1000e-004	0.0106	0.0000	43.6869	43.6869	1.0800e-003	0.0000	43.7138
Total	0.0297	0.3900	0.2450	1.3800e-003	0.0614	2.1600e-003	0.0636	0.0168	2.0600e-003	0.0188	0.0000	133.2980	133.2980	0.0100	0.0000	133.5486

3.9 Phase 1: Foundation - 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					
Off-Road	0.0660	0.5044	0.4366	7.7000e-004		0.0289	0.0289		0.0285	0.0285	0.0000	64.8399	64.8399	7.8900e-003	0.0000	65.0370
Total	0.0660	0.5044	0.4366	7.7000e-004		0.0289	0.0289		0.0285	0.0285	0.0000	64.8399	64.8399	7.8900e-003	0.0000	65.0370

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	0.0123	0.4477	0.1066	1.1300e-003	0.0251	1.6800e-003	0.0268	6.8700e-003	1.6100e-003	8.4800e-003	0.0000	113.7302	113.7302	0.0121	0.0000	114.0323
Vendor	8.3000e-003	0.2515	0.0684	5.4000e-004	0.0137	1.6800e-003	0.0154	3.9500e-003	1.6100e-003	5.5500e-003	0.0000	53.2631	53.2631	4.6500e-003	0.0000	53.3794
Worker	0.0331	0.0242	0.2684	8.6000e-004	0.0871	5.9000e-004	0.0877	0.0231	5.5000e-004	0.0237	0.0000	77.8767	77.8767	1.9200e-003	0.0000	77.9247
Total	0.0537	0.7234	0.4434	2.5300e-003	0.1258	3.9500e-003	0.1298	0.0340	3.7700e-003	0.0377	0.0000	244.8700	244.8700	0.0187	0.0000	245.3363

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	0.0178	0.3658	0.4489	7.7000e-004		0.0232	0.0232		0.0232	0.0232	0.0000	64.8398	64.8398	7.8900e-003	0.0000	65.0370
Total	0.0178	0.3658	0.4489	7.7000e-004		0.0232	0.0232		0.0232	0.0232	0.0000	64.8398	64.8398	7.8900e-003	0.0000	65.0370

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	0.0123	0.4477	0.1066	1.1300e-003	0.0202	1.6800e-003	0.0218	5.6700e-003	1.6100e-003	7.2700e-003	0.0000	113.7302	113.7302	0.0121	0.0000	114.0323
Vendor	8.3000e-003	0.2515	0.0684	5.4000e-004	0.0112	1.6800e-003	0.0128	3.3300e-003	1.6100e-003	4.9300e-003	0.0000	53.2631	53.2631	4.6500e-003	0.0000	53.3794
Worker	0.0331	0.0242	0.2684	8.6000e-004	0.0675	5.9000e-004	0.0681	0.0183	5.5000e-004	0.0189	0.0000	77.8767	77.8767	1.9200e-003	0.0000	77.9247

Total	0.0537	0.7234	0.4434	2.5300e-003	0.0988	3.9500e-003	0.1027	0.0273	3.7700e-003	0.0311	0.0000	244.8700	244.8700	0.0187	0.0000	245.3363
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3.10 Phase 1: Structural Concrete - 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					
Off-Road	0.3092	2.3739	2.0561	3.6000e-003		0.1368	0.1368		0.1348	0.1348	0.0000	305.3859	305.3859	0.0373	0.0000	306.3171
Total	0.3092	2.3739	2.0561	3.6000e-003		0.1368	0.1368		0.1348	0.1348	0.0000	305.3859	305.3859	0.0373	0.0000	306.3171

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	0.0399	1.2084	0.3288	2.6000e-003	0.0657	8.0700e-003	0.0738	0.0190	7.7200e-003	0.0267	0.0000	255.9228	255.9228	0.0223	0.0000	256.4813
Worker	0.1593	0.1162	1.2895	4.1400e-003	0.4185	2.8500e-003	0.4213	0.1111	2.6200e-003	0.1138	0.0000	374.1881	374.1881	9.2200e-003	0.0000	374.4185
Total	0.1991	1.3245	1.6183	6.7400e-003	0.4842	0.0109	0.4951	0.1301	0.0103	0.1404	0.0000	630.1109	630.1109	0.0316	0.0000	630.8998

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	0.0854	1.7577	2.1567	3.6000e-003		0.1113	0.1113		0.1113	0.1113	0.0000	305.3855	305.3855	0.0373	0.0000	306.3167
Total	0.0854	1.7577	2.1567	3.6000e-003		0.1113	0.1113		0.1113	0.1113	0.0000	305.3855	305.3855	0.0373	0.0000	306.3167

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	0.0399	1.2084	0.3288	2.6000e-003	0.0536	8.0700e-003	0.0617	0.0160	7.7200e-003	0.0237	0.0000	255.9228	255.9228	0.0223	0.0000	256.4813
Worker	0.1593	0.1162	1.2895	4.1400e-003	0.3241	2.8500e-003	0.3270	0.0880	2.6200e-003	0.0906	0.0000	374.1881	374.1881	9.2200e-003	0.0000	374.4185
Total	0.1991	1.3245	1.6183	6.7400e-003	0.3778	0.0109	0.3887	0.1040	0.0103	0.1143	0.0000	630.1109	630.1109	0.0316	0.0000	630.8998

3.10 Phase 1: Structural Concrete - 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					

Off-Road	0.0324	0.2552	0.2363	4.2000e-004		0.0139	0.0139		0.0137	0.0137	0.0000	35.5246	35.5246	4.0900e-003	0.0000	35.6267
Total	0.0324	0.2552	0.2363	4.2000e-004		0.0139	0.0139		0.0137	0.0137	0.0000	35.5246	35.5246	4.0900e-003	0.0000	35.6267

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9700e-003	0.1293	0.0352	3.0000e-004	7.6700e-003	6.7000e-004	8.3400e-003	2.2100e-003	6.4000e-004	2.8500e-003	0.0000	29.6736	29.6736	2.4800e-003	0.0000	29.7355
Worker	0.0174	0.0122	0.1380	4.7000e-004	0.0489	3.3000e-004	0.0492	0.0130	3.0000e-004	0.0133	0.0000	42.2869	42.2869	9.6000e-004	0.0000	42.3110
Total	0.0213	0.1414	0.1731	7.7000e-004	0.0565	1.0000e-003	0.0575	0.0152	9.4000e-004	0.0161	0.0000	71.9605	71.9605	3.4400e-003	0.0000	72.0466

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	9.9700e-003	0.2052	0.2518	4.2000e-004		0.0130	0.0130		0.0130	0.0130	0.0000	35.5245	35.5245	4.0900e-003	0.0000	35.6267
Total	9.9700e-003	0.2052	0.2518	4.2000e-004		0.0130	0.0130		0.0130	0.0130	0.0000	35.5245	35.5245	4.0900e-003	0.0000	35.6267

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9700e-003	0.1293	0.0352	3.0000e-004	6.2600e-003	6.7000e-004	6.9300e-003	1.8700e-003	6.4000e-004	2.5000e-003	0.0000	29.6736	29.6736	2.4800e-003	0.0000	29.7355
Worker	0.0174	0.0122	0.1380	4.7000e-004	0.0378	3.3000e-004	0.0382	0.0103	3.0000e-004	0.0106	0.0000	42.2869	42.2869	9.6000e-004	0.0000	42.3110
Total	0.0213	0.1414	0.1731	7.7000e-004	0.0441	1.0000e-003	0.0451	0.0121	9.4000e-004	0.0131	0.0000	71.9605	71.9605	3.4400e-003	0.0000	72.0466

3.11 Phase 1: Rough Interior Fit Out - 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					
Off-Road	6.9000e-003	0.0312	0.0332	3.0000e-005		2.6200e-003	2.6200e-003		2.4100e-003	2.4100e-003	0.0000	2.9324	2.9324	9.3000e-004	0.0000	2.9556
Total	6.9000e-003	0.0312	0.0332	3.0000e-005		2.6200e-003	2.6200e-003		2.4100e-003	2.4100e-003	0.0000	2.9324	2.9324	9.3000e-004	0.0000	2.9556

Unmitigated Construction Off-Site

Vendor	0.0287	0.8708	0.2369	1.8700e-003	0.0386	5.8100e-003	0.0444	0.0115	5.5600e-003	0.0171	0.0000	184.4233	184.4233	0.0161	0.0000	184.8257
Worker	0.1067	0.0778	0.8640	2.7700e-003	0.2172	1.9100e-003	0.2191	0.0590	1.7600e-003	0.0607	0.0000	250.7250	250.7250	6.1800e-003	0.0000	250.8794
Total	0.1355	0.9486	1.1010	4.6400e-003	0.2558	7.7200e-003	0.2635	0.0705	7.3200e-003	0.0778	0.0000	435.1483	435.1483	0.0223	0.0000	435.7051

3.11 Phase 1: Rough Interior Fit Out - 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					
Off-Road	4.2300e-003	0.0199	0.0213	2.0000e-005		1.6000e-003	1.6000e-003		1.4700e-003	1.4700e-003	0.0000	1.8906	1.8906	6.1000e-004	0.0000	1.9059
Total	4.2300e-003	0.0199	0.0213	2.0000e-005		1.6000e-003	1.6000e-003		1.4700e-003	1.4700e-003	0.0000	1.8906	1.8906	6.1000e-004	0.0000	1.9059

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	0.0162	0.5259	0.1430	1.2200e-003	0.0312	2.7100e-003	0.0339	9.0000e-003	2.6000e-003	0.0116	0.0000	120.7147	120.7147	0.0101	0.0000	120.9668
Worker	0.0656	0.0460	0.5219	1.7700e-003	0.1848	1.2400e-003	0.1861	0.0491	1.1500e-003	0.0502	0.0000	159.9548	159.9548	3.6500e-003	0.0000	160.0460
Total	0.0818	0.5719	0.6649	2.9900e-003	0.2160	3.9500e-003	0.2200	0.0581	3.7500e-003	0.0618	0.0000	280.6694	280.6694	0.0137	0.0000	281.0128

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	1.1400e-003	0.0183	0.0162	2.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	1.8906	1.8906	6.1000e-004	0.0000	1.9059
Total	1.1400e-003	0.0183	0.0162	2.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	1.8906	1.8906	6.1000e-004	0.0000	1.9059

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	0.0162	0.5259	0.1430	1.2200e-003	0.0255	2.7100e-003	0.0282	7.5900e-003	2.6000e-003	0.0102	0.0000	120.7147	120.7147	0.0101	0.0000	120.9668
Worker	0.0656	0.0460	0.5219	1.7700e-003	0.1432	1.2400e-003	0.1444	0.0389	1.1500e-003	0.0400	0.0000	159.9548	159.9548	3.6500e-003	0.0000	160.0460
Total	0.0818	0.5719	0.6649	2.9900e-003	0.1686	3.9500e-003	0.1726	0.0464	3.7500e-003	0.0502	0.0000	280.6694	280.6694	0.0137	0.0000	281.0128

3.12 Phase 1: Interior Finish Fit Out - 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					
Off-Road	3.4500e-003	0.0156	0.0166	2.0000e-005		1.3100e-003	1.3100e-003		1.2000e-003	1.2000e-003	0.0000	1.4662	1.4662	4.6000e-004	0.0000	1.4778
Total	3.4500e-003	0.0156	0.0166	2.0000e-005		1.3100e-003	1.3100e-003		1.2000e-003	1.2000e-003	0.0000	1.4662	1.4662	4.6000e-004	0.0000	1.4778

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	0.0144	0.4354	0.1185	9.4000e-004	0.0237	2.9100e-003	0.0266	6.8300e-003	2.7800e-003	9.6100e-003	0.0000	92.2116	92.2116	8.0500e-003	0.0000	92.4129
Worker	0.0534	0.0389	0.4320	1.3900e-003	0.1402	9.5000e-004	0.1412	0.0372	8.8000e-004	0.0381	0.0000	125.3625	125.3625	3.0900e-003	0.0000	125.4397
Total	0.0677	0.4743	0.5505	2.3300e-003	0.1639	3.8600e-003	0.1677	0.0441	3.6600e-003	0.0477	0.0000	217.5741	217.5741	0.0111	0.0000	217.8526

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7000e-004	0.0139	0.0123	2.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	1.4662	1.4662	4.6000e-004	0.0000	1.4778

Total	8.7000e-004	0.0139	0.0123	2.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	1.4662	1.4662	4.6000e-004	0.0000	1.4778
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0144	0.4354	0.1185	9.4000e-004	0.0193	2.9100e-003	0.0222	5.7600e-003	2.7800e-003	8.5400e-003	0.0000	92.2116	92.2116	8.0500e-003	0.0000	92.4129
Worker	0.0534	0.0389	0.4320	1.3900e-003	0.1086	9.5000e-004	0.1096	0.0295	8.8000e-004	0.0304	0.0000	125.3625	125.3625	3.0900e-003	0.0000	125.4397
Total	0.0677	0.4743	0.5505	2.3300e-003	0.1279	3.8600e-003	0.1318	0.0352	3.6600e-003	0.0389	0.0000	217.5741	217.5741	0.0111	0.0000	217.8526

3.12 Phase 1: Interior Finish Fit Out - 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					
Off-Road	7.4400e-003	0.0350	0.0375	4.0000e-005		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	3.3249	3.3249	1.0800e-003	0.0000	3.3517
Total	7.4400e-003	0.0350	0.0375	4.0000e-005		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	3.3249	3.3249	1.0800e-003	0.0000	3.3517

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	0.0284	0.9249	0.2516	2.1500e-003	0.0549	4.7700e-003	0.0597	0.0158	4.5700e-003	0.0204	0.0000	212.2913	212.2913	0.0177	0.0000	212.7347
Worker	0.1154	0.0808	0.9177	3.1100e-003	0.3250	2.1900e-003	0.3272	0.0863	2.0100e-003	0.0883	0.0000	281.2997	281.2997	6.4200e-003	0.0000	281.4602
Total	0.1438	1.0058	1.1693	5.2600e-003	0.3799	6.9600e-003	0.3869	0.1021	6.5800e-003	0.1087	0.0000	493.5910	493.5910	0.0242	0.0000	494.1949

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.0100e-003	0.0321	0.0285	4.0000e-005		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	3.3249	3.3249	1.0800e-003	0.0000	3.3517
Total	2.0100e-003	0.0321	0.0285	4.0000e-005		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	3.3249	3.3249	1.0800e-003	0.0000	3.3517

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
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Category	tons/yr										MT/yr					
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0284	0.9249	0.2516	2.1500e-003	0.0448	4.7700e-003	0.0496	0.0134	4.5700e-003	0.0179	0.0000	212.2913	212.2913	0.0177	0.0000	212.7347
Worker	0.1154	0.0808	0.9177	3.1100e-003	0.2518	2.1900e-003	0.2539	0.0683	2.0100e-003	0.0703	0.0000	281.2997	281.2997	6.4200e-003	0.0000	281.4602
Total	0.1438	1.0058	1.1693	5.2600e-003	0.2965	6.9600e-003	0.3035	0.0817	6.5800e-003	0.0883	0.0000	493.5910	493.5910	0.0242	0.0000	494.1949

3.13 Phase 1: Landscaping/ TCO/ Punchlist - 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					
Off-Road	0.0126	0.1121	0.0896	2.1000e-004		5.3700e-003	5.3700e-003		5.0600e-003	5.0600e-003	0.0000	18.6189	18.6189	5.1400e-003	0.0000	18.7475
Total	0.0126	0.1121	0.0896	2.1000e-004		5.3700e-003	5.3700e-003		5.0600e-003	5.0600e-003	0.0000	18.6189	18.6189	5.1400e-003	0.0000	18.7475

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	2.1700e-003	0.0809	0.0203	2.2000e-004	4.8800e-003	2.6000e-004	5.1400e-003	1.3400e-003	2.4000e-004	1.5800e-003	0.0000	21.9158	21.9158	2.3100e-003	0.0000	21.9735
Vendor	3.6900e-003	0.1203	0.0327	2.8000e-004	7.1400e-003	6.2000e-004	7.7600e-003	2.0600e-003	5.9000e-004	2.6500e-003	0.0000	27.6044	27.6044	2.3100e-003	0.0000	27.6621

Worker	0.0158	0.0111	0.1260	4.3000e-004	0.0446	3.0000e-004	0.0449	0.0119	2.8000e-004	0.0121	0.0000	38.6098	38.6098	8.8000e-004	0.0000	38.6318
Total	0.0217	0.2123	0.1789	9.3000e-004	0.0566	1.1800e-003	0.0578	0.0153	1.1100e-003	0.0164	0.0000	88.1300	88.1300	5.5000e-003	0.0000	88.2674

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	5.0200e-003	0.1028	0.1238	2.1000e-004		5.1000e-003	5.1000e-003		5.1000e-003	5.1000e-003	0.0000	18.6189	18.6189	5.1400e-003	0.0000	18.7475
Total	5.0200e-003	0.1028	0.1238	2.1000e-004		5.1000e-003	5.1000e-003		5.1000e-003	5.1000e-003	0.0000	18.6189	18.6189	5.1400e-003	0.0000	18.7475

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	2.1700e-003	0.0809	0.0203	2.2000e-004	3.9300e-003	2.6000e-004	4.1800e-003	1.1000e-003	2.4000e-004	1.3500e-003	0.0000	21.9158	21.9158	2.3100e-003	0.0000	21.9735
Vendor	3.6900e-003	0.1203	0.0327	2.8000e-004	5.8200e-003	6.2000e-004	6.4400e-003	1.7400e-003	5.9000e-004	2.3300e-003	0.0000	27.6044	27.6044	2.3100e-003	0.0000	27.6621
Worker	0.0158	0.0111	0.1260	4.3000e-004	0.0346	3.0000e-004	0.0349	9.3800e-003	2.8000e-004	9.6500e-003	0.0000	38.6098	38.6098	8.8000e-004	0.0000	38.6318
Total	0.0217	0.2123	0.1789	9.3000e-004	0.0443	1.1800e-003	0.0455	0.0122	1.1100e-003	0.0133	0.0000	88.1300	88.1300	5.5000e-003	0.0000	88.2674

3.14 Phase 2: Site Demolition/ Clearing - 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					7.5000e-003	0.0000	7.5000e-003	1.1400e-003	0.0000	1.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.1338	0.1535	2.4000e-004		8.0200e-003	8.0200e-003		7.6800e-003	7.6800e-003	0.0000	20.6525	20.6525	4.2200e-003	0.0000	20.7580
Total	0.0155	0.1338	0.1535	2.4000e-004	7.5000e-003	8.0200e-003	8.0155e-003	1.1400e-003	7.6800e-003	8.8200e-003	0.0000	20.6525	20.6525	4.2200e-003	0.0000	20.7580

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	2.6000e-004	9.7900e-003	2.4500e-003	3.0000e-005	5.9000e-004	3.0000e-005	6.2000e-004	1.6000e-004	3.0000e-005	1.9000e-004	0.0000	2.6530	2.6530	2.8000e-004	0.0000	2.6600
Vendor	4.0000e-005	1.1700e-003	3.2000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2678	0.2678	2.0000e-005	0.0000	0.2683
Worker	5.4000e-004	3.8000e-004	4.2600e-003	1.0000e-005	1.5100e-003	1.0000e-005	1.5200e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3065	1.3065	3.0000e-005	0.0000	1.3072
Total	8.4000e-004	0.0113	7.0300e-003	4.0000e-005	2.1700e-003	5.0000e-005	2.2200e-003	5.8000e-004	5.0000e-005	6.3000e-004	0.0000	4.2272	4.2272	3.3000e-004	0.0000	4.2355

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
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Category	tons/yr										MT/yr					
Fugitive Dust					3.2100e-003	0.0000	3.2100e-003	4.9000e-004	0.0000	4.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3200e-003	0.1165	0.1639	2.4000e-004		7.5800e-003	7.5800e-003		7.5800e-003	7.5800e-003	0.0000	20.6524	20.6524	4.2200e-003	0.0000	20.7579
Total	5.3200e-003	0.1165	0.1639	2.4000e-004	3.2100e-003	7.5800e-003	0.0108	4.9000e-004	7.5800e-003	8.0700e-003	0.0000	20.6524	20.6524	4.2200e-003	0.0000	20.7579

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	2.6000e-004	9.7900e-003	2.4500e-003	3.0000e-005	4.8000e-004	3.0000e-005	5.1000e-004	1.3000e-004	3.0000e-005	1.6000e-004	0.0000	2.6530	2.6530	2.8000e-004	0.0000	2.6600
Vendor	4.0000e-005	1.1700e-003	3.2000e-004	0.0000	6.0000e-005	1.0000e-005	6.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.2678	0.2678	2.0000e-005	0.0000	0.2683
Worker	5.4000e-004	3.8000e-004	4.2600e-003	1.0000e-005	1.1700e-003	1.0000e-005	1.1800e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.3065	1.3065	3.0000e-005	0.0000	1.3072
Total	8.4000e-004	0.0113	7.0300e-003	4.0000e-005	1.7100e-003	5.0000e-005	1.7500e-003	4.7000e-004	5.0000e-005	5.1000e-004	0.0000	4.2272	4.2272	3.3000e-004	0.0000	4.2355

3.15 Phase 2: Shoring - 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					2.4000e-003	0.0000	2.4000e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0191	0.1816	0.1220	3.2000e-004		7.6600e-003	7.6600e-003		7.1700e-003	7.1700e-003	0.0000	27.6018	27.6018	8.3300e-003	0.0000	27.8101

Total	0.0191	0.1816	0.1220	3.2000e-004	2.4000e-003	7.6600e-003	0.0101	3.6000e-004	7.1700e-003	7.5300e-003	0.0000	27.6018	27.6018	8.3300e-003	0.0000	27.8101
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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	2.0200e-003	0.0752	0.0188	2.0000e-004	4.5400e-003	2.4000e-004	4.7800e-003	1.2500e-003	2.3000e-004	1.4700e-003	0.0000	20.3778	20.3778	2.1500e-003	0.0000	20.4315
Vendor	6.0000e-005	1.9100e-003	5.2000e-004	0.0000	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4382	0.4382	4.0000e-005	0.0000	0.4391
Worker	5.8000e-004	4.1000e-004	4.6500e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4252	1.4252	3.0000e-005	0.0000	1.4261
Total	2.6600e-003	0.0775	0.0240	2.2000e-004	6.3000e-003	2.6000e-004	6.5600e-003	1.7200e-003	2.5000e-004	1.9600e-003	0.0000	22.2412	22.2412	2.2200e-003	0.0000	22.2966

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					1.0300e-003	0.0000	1.0300e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7300e-003	0.1655	0.1831	3.2000e-004		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003	0.0000	27.6018	27.6018	8.3300e-003	0.0000	27.8101
Total	8.7300e-003	0.1655	0.1831	3.2000e-004	1.0300e-003	7.6300e-003	8.6600e-003	1.6000e-004	7.6300e-003	7.7900e-003	0.0000	27.6018	27.6018	8.3300e-003	0.0000	27.8101

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	2.0200e-003	0.0752	0.0188	2.0000e-004	3.6500e-003	2.4000e-004	3.8900e-003	1.0300e-003	2.3000e-004	1.2500e-003	0.0000	20.3778	20.3778	2.1500e-003	0.0000	20.4315
Vendor	6.0000e-005	1.9100e-003	5.2000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4382	0.4382	4.0000e-005	0.0000	0.4391
Worker	5.8000e-004	4.1000e-004	4.6500e-003	2.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.4252	1.4252	3.0000e-005	0.0000	1.4261
Total	2.6600e-003	0.0775	0.0240	2.2000e-004	5.0200e-003	2.6000e-004	5.2800e-003	1.4100e-003	2.5000e-004	1.6500e-003	0.0000	22.2412	22.2412	2.2200e-003	0.0000	22.2966

3.16 Phase 2: Excavation - 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					
Off-Road	0.0425	0.4342	0.5369	8.0000e-004		0.0235	0.0235		0.0216	0.0216	0.0000	70.2919	70.2919	0.0227	0.0000	70.8602
Total	0.0425	0.4342	0.5369	8.0000e-004		0.0235	0.0235		0.0216	0.0216	0.0000	70.2919	70.2919	0.0227	0.0000	70.8602

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	9.1000e-003	0.3386	0.0848	9.1000e-004	0.0205	1.0700e-003	0.0215	5.6100e-003	1.0200e-003	6.6300e-003	0.0000	91.7386	91.7386	9.6700e-003	0.0000	91.9804
Vendor	7.5600e-003	0.2463	0.0670	5.7000e-004	0.0146	1.2700e-003	0.0159	4.2200e-003	1.2200e-003	5.4300e-003	0.0000	56.5234	56.5234	4.7200e-003	0.0000	56.6414
Worker	0.0324	0.0227	0.2579	8.7000e-004	0.0913	6.1000e-004	0.0920	0.0243	5.7000e-004	0.0248	0.0000	79.0581	79.0581	1.8000e-003	0.0000	79.1032
Total	0.0491	0.6075	0.4097	2.3500e-003	0.1264	2.9500e-003	0.1294	0.0341	2.8100e-003	0.0369	0.0000	227.3201	227.3201	0.0162	0.0000	227.7250

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	0.0197	0.4104	0.6059	8.0000e-004		0.0242	0.0242		0.0242	0.0242	0.0000	70.2918	70.2918	0.0227	0.0000	70.8601
Total	0.0197	0.4104	0.6059	8.0000e-004		0.0242	0.0242		0.0242	0.0242	0.0000	70.2918	70.2918	0.0227	0.0000	70.8601

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	9.1000e-003	0.3386	0.0848	9.1000e-004	0.0164	1.0700e-003	0.0175	4.6200e-003	1.0200e-003	5.6400e-003	0.0000	91.7386	91.7386	9.6700e-003	0.0000	91.9804
Vendor	7.5600e-003	0.2463	0.0670	5.7000e-004	0.0119	1.2700e-003	0.0132	3.5500e-003	1.2200e-003	4.7700e-003	0.0000	56.5234	56.5234	4.7200e-003	0.0000	56.6414
Worker	0.0324	0.0227	0.2579	8.7000e-004	0.0708	6.1000e-004	0.0714	0.0192	5.7000e-004	0.0198	0.0000	79.0581	79.0581	1.8000e-003	0.0000	79.1032

Total	0.0491	0.6075	0.4097	2.3500e-003	0.0991	2.9500e-003	0.1021	0.0274	2.8100e-003	0.0302	0.0000	227.3201	227.3201	0.0162	0.0000	227.7250
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3.17 Phase 2: Foundation - 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					
Off-Road	0.0664	0.5154	0.4749	8.6000e-004		0.0276	0.0276		0.0272	0.0272	0.0000	71.3528	71.3528	8.1700e-003	0.0000	71.5570
Total	0.0664	0.5154	0.4749	8.6000e-004		0.0276	0.0276		0.0272	0.0272	0.0000	71.3528	71.3528	8.1700e-003	0.0000	71.5570

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	4.5500e-003	0.1693	0.0424	4.5000e-004	0.0180	5.4000e-004	0.0185	4.7000e-003	5.1000e-004	5.2100e-003	0.0000	45.8693	45.8693	4.8300e-003	0.0000	45.9902
Vendor	3.8000e-003	0.1237	0.0336	2.9000e-004	7.3400e-003	6.4000e-004	7.9800e-003	2.1200e-003	6.1000e-004	2.7300e-003	0.0000	28.3834	28.3834	2.3700e-003	0.0000	28.4427
Worker	0.0166	0.0116	0.1320	4.5000e-004	0.0467	3.1000e-004	0.0471	0.0124	2.9000e-004	0.0127	0.0000	40.4483	40.4483	9.2000e-004	0.0000	40.4714
Total	0.0249	0.3046	0.2080	1.1900e-003	0.0720	1.4900e-003	0.0735	0.0192	1.4100e-003	0.0206	0.0000	114.7011	114.7011	8.1200e-003	0.0000	114.9043

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	0.0191	0.3926	0.4817	8.6000e-004		0.0249	0.0249		0.0249	0.0249	0.0000	71.3527	71.3527	8.1700e-003	0.0000	71.5569
Total	0.0191	0.3926	0.4817	8.6000e-004		0.0249	0.0249		0.0249	0.0249	0.0000	71.3527	71.3527	8.1700e-003	0.0000	71.5569

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	4.5500e-003	0.1693	0.0424	4.5000e-004	0.0139	5.4000e-004	0.0145	3.7100e-003	5.1000e-004	4.2300e-003	0.0000	45.8693	45.8693	4.8300e-003	0.0000	45.9902
Vendor	3.8000e-003	0.1237	0.0336	2.9000e-004	5.9900e-003	6.4000e-004	6.6200e-003	1.7800e-003	6.1000e-004	2.4000e-003	0.0000	28.3834	28.3834	2.3700e-003	0.0000	28.4427
Worker	0.0166	0.0116	0.1320	4.5000e-004	0.0362	3.1000e-004	0.0365	9.8200e-003	2.9000e-004	0.0101	0.0000	40.4483	40.4483	9.2000e-004	0.0000	40.4714
Total	0.0249	0.3046	0.2080	1.1900e-003	0.0561	1.4900e-003	0.0576	0.0153	1.4100e-003	0.0167	0.0000	114.7011	114.7011	8.1200e-003	0.0000	114.9043

3.17 Phase 2: Foundation - 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					

Off-Road	0.0604	0.4752	0.4683	8.6000e-004		0.0241	0.0241		0.0237	0.0237	0.0000	71.3518	71.3518	7.7700e-003	0.0000	71.5460
Total	0.0604	0.4752	0.4683	8.6000e-004		0.0241	0.0241		0.0237	0.0237	0.0000	71.3518	71.3518	7.7700e-003	0.0000	71.5460

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	4.3400e-003	0.1564	0.0426	4.5000e-004	0.0180	4.8000e-004	0.0184	4.7000e-003	4.6000e-004	5.1600e-003	0.0000	45.3069	45.3069	4.7700e-003	0.0000	45.4262
Vendor	3.1800e-003	0.1111	0.0311	2.8000e-004	7.3400e-003	2.3000e-004	7.5700e-003	2.1200e-003	2.2000e-004	2.3400e-003	0.0000	28.1389	28.1389	2.2800e-003	0.0000	28.1958
Worker	0.0156	0.0105	0.1223	4.3000e-004	0.0467	3.1000e-004	0.0470	0.0124	2.8000e-004	0.0127	0.0000	39.0448	39.0448	8.4000e-004	0.0000	39.0657
Total	0.0231	0.2780	0.1960	1.1600e-003	0.0720	1.0200e-003	0.0730	0.0192	9.6000e-004	0.0202	0.0000	112.4905	112.4905	7.8900e-003	0.0000	112.6877

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	0.0191	0.3926	0.4817	8.6000e-004		0.0249	0.0249		0.0249	0.0249	0.0000	71.3517	71.3517	7.7700e-003	0.0000	71.5459
Total	0.0191	0.3926	0.4817	8.6000e-004		0.0249	0.0249		0.0249	0.0249	0.0000	71.3517	71.3517	7.7700e-003	0.0000	71.5459

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	4.3400e-003	0.1564	0.0426	4.5000e-004	0.0139	4.8000e-004	0.0144	3.7100e-003	4.6000e-004	4.1700e-003	0.0000	45.3069	45.3069	4.7700e-003	0.0000	45.4262
Vendor	3.1800e-003	0.1111	0.0311	2.8000e-004	5.9900e-003	2.3000e-004	6.2200e-003	1.7800e-003	2.2000e-004	2.0100e-003	0.0000	28.1389	28.1389	2.2800e-003	0.0000	28.1958
Worker	0.0156	0.0105	0.1223	4.3000e-004	0.0362	3.1000e-004	0.0365	9.8200e-003	2.8000e-004	0.0101	0.0000	39.0448	39.0448	8.4000e-004	0.0000	39.0657
Total	0.0231	0.2780	0.1960	1.1600e-003	0.0561	1.0200e-003	0.0571	0.0153	9.6000e-004	0.0163	0.0000	112.4905	112.4905	7.8900e-003	0.0000	112.6877

3.18 Phase 2: Structural Concrete - 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					
Off-Road	0.5866	4.6419	4.5906	8.3500e-003		0.2365	0.2365		0.2331	0.2331	0.0000	699.7552	699.7552	0.0763	0.0000	701.6613
Total	0.5866	4.6419	4.5906	8.3500e-003		0.2365	0.2365		0.2331	0.2331	0.0000	699.7552	699.7552	0.0763	0.0000	701.6613

Unmitigated Construction Off-Site

Vendor	0.0318	1.1109	0.3114	2.8500e-003	0.0599	2.3100e-003	0.0622	0.0179	2.2100e-003	0.0201	0.0000	281.3890	281.3890	0.0228	0.0000	281.9584
Worker	0.1560	0.1049	1.2229	4.3200e-003	0.3620	3.0800e-003	0.3651	0.0983	2.8400e-003	0.1011	0.0000	390.4476	390.4476	8.3600e-003	0.0000	390.6566
Total	0.1878	1.2157	1.5343	7.1700e-003	0.4219	5.3900e-003	0.4272	0.1161	5.0500e-003	0.1211	0.0000	671.8366	671.8366	0.0311	0.0000	672.6150

3.19 Phase 2: Rough Interior Fit Out - 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					
Off-Road	0.0184	0.1917	0.1774	2.7000e-004		0.0100	0.0100		9.2200e-003	9.2200e-003	0.0000	23.7550	23.7550	7.6800e-003	0.0000	23.9471
Total	0.0184	0.1917	0.1774	2.7000e-004		0.0100	0.0100		9.2200e-003	9.2200e-003	0.0000	23.7550	23.7550	7.6800e-003	0.0000	23.9471

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	0.0291	1.0170	0.2851	2.6100e-003	0.0672	2.1100e-003	0.0693	0.0194	2.0200e-003	0.0214	0.0000	257.6181	257.6181	0.0209	0.0000	258.1395
Worker	0.1241	0.0834	0.9728	3.4300e-003	0.3717	2.4500e-003	0.3742	0.0987	2.2600e-003	0.1010	0.0000	310.5833	310.5833	6.6500e-003	0.0000	310.7496
Total	0.1532	1.1004	1.2579	6.0400e-003	0.4389	4.5600e-003	0.4435	0.1181	4.2800e-003	0.1224	0.0000	568.2014	568.2014	0.0275	0.0000	568.8890

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	6.6900e-003	0.1293	0.2062	2.7000e-004		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	23.7550	23.7550	7.6800e-003	0.0000	23.9471
Total	6.6900e-003	0.1293	0.2062	2.7000e-004		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	23.7550	23.7550	7.6800e-003	0.0000	23.9471

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	0.0291	1.0170	0.2851	2.6100e-003	0.0548	2.1100e-003	0.0569	0.0163	2.0200e-003	0.0184	0.0000	257.6181	257.6181	0.0209	0.0000	258.1395
Worker	0.1241	0.0834	0.9728	3.4300e-003	0.2879	2.4500e-003	0.2904	0.0782	2.2600e-003	0.0804	0.0000	310.5833	310.5833	6.6500e-003	0.0000	310.7496
Total	0.1532	1.1004	1.2579	6.0400e-003	0.3427	4.5600e-003	0.3473	0.0945	4.2800e-003	0.0988	0.0000	568.2014	568.2014	0.0275	0.0000	568.8890

3.19 Phase 2: Rough Interior Fit Out - 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	4.0400e-003	0.0410	0.0432	7.0000e-005		2.1400e-003	2.1400e-003		1.9700e-003	1.9700e-003	0.0000	5.8351	5.8351	1.8900e-003	0.0000	5.8823
Total	4.0400e-003	0.0410	0.0432	7.0000e-005		2.1400e-003	2.1400e-003		1.9700e-003	1.9700e-003	0.0000	5.8351	5.8351	1.8900e-003	0.0000	5.8823

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7200e-003	0.2362	0.0676	6.3000e-004	0.0165	4.5000e-004	0.0170	4.7600e-003	4.3000e-004	5.1900e-003	0.0000	62.6763	62.6763	4.9600e-003	0.0000	62.8003
Worker	0.0288	0.0186	0.2228	8.1000e-004	0.0913	5.9000e-004	0.0919	0.0243	5.4000e-004	0.0248	0.0000	73.4894	73.4894	1.4800e-003	0.0000	73.5265
Total	0.0356	0.2547	0.2904	1.4400e-003	0.1079	1.0400e-003	0.1089	0.0290	9.7000e-004	0.0300	0.0000	136.1657	136.1657	6.4400e-003	0.0000	136.3268

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	1.6400e-003	0.0318	0.0507	7.0000e-005		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	5.8351	5.8351	1.8900e-003	0.0000	5.8822

Total	1.6400e-003	0.0318	0.0507	7.0000e-005		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	5.8351	5.8351	1.8900e-003	0.0000	5.8822
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7200e-003	0.2362	0.0676	6.3000e-004	0.0135	4.5000e-004	0.0139	4.0100e-003	4.3000e-004	4.4500e-003	0.0000	62.6763	62.6763	4.9600e-003	0.0000	62.8003
Worker	0.0288	0.0186	0.2228	8.1000e-004	0.0708	5.9000e-004	0.0713	0.0192	5.4000e-004	0.0198	0.0000	73.4894	73.4894	1.4800e-003	0.0000	73.5265
Total	0.0356	0.2547	0.2904	1.4400e-003	0.0842	1.0400e-003	0.0853	0.0232	9.7000e-004	0.0242	0.0000	136.1657	136.1657	6.4400e-003	0.0000	136.3268

3.20 Phase 2: Interior Finish Fit Out - 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					
Off-Road	9.8900e-003	0.0480	0.0520	5.0000e-005		3.7400e-003	3.7400e-003		3.4400e-003	3.4400e-003	0.0000	4.6923	4.6923	1.5200e-003	0.0000	4.7302
Total	9.8900e-003	0.0480	0.0520	5.0000e-005		3.7400e-003	3.7400e-003		3.4400e-003	3.4400e-003	0.0000	4.6923	4.6923	1.5200e-003	0.0000	4.7302

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	0.0180	0.6277	0.1759	1.6100e-003	0.0415	1.3000e-003	0.0428	0.0120	1.2500e-003	0.0132	0.0000	158.9872	158.9872	0.0129	0.0000	159.3089
Worker	0.0766	0.0515	0.6004	2.1200e-003	0.2294	1.5100e-003	0.2309	0.0609	1.3900e-003	0.0623	0.0000	191.6743	191.6743	4.1100e-003	0.0000	191.7769
Total	0.0945	0.6791	0.7763	3.7300e-003	0.2709	2.8100e-003	0.2737	0.0729	2.6400e-003	0.0755	0.0000	350.6615	350.6615	0.0170	0.0000	351.0858

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8400e-003	0.0454	0.0402	5.0000e-005		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	4.6923	4.6923	1.5200e-003	0.0000	4.7302
Total	2.8400e-003	0.0454	0.0402	5.0000e-005		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	4.6923	4.6923	1.5200e-003	0.0000	4.7302

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
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Category	tons/yr										MT/yr					
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0180	0.6277	0.1759	1.6100e-003	0.0338	1.3000e-003	0.0351	0.0101	1.2500e-003	0.0113	0.0000	158.9872	158.9872	0.0129	0.0000	159.3089
Worker	0.0766	0.0515	0.6004	2.1200e-003	0.1777	1.5100e-003	0.1792	0.0482	1.3900e-003	0.0496	0.0000	191.6743	191.6743	4.1100e-003	0.0000	191.7769
Total	0.0945	0.6791	0.7763	3.7300e-003	0.2115	2.8100e-003	0.2143	0.0583	2.6400e-003	0.0610	0.0000	350.6615	350.6615	0.0170	0.0000	351.0858

3.20 Phase 2: Interior Finish Fit Out - 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	9.1000e-003	0.0469	0.0511	5.0000e-005		3.4400e-003	3.4400e-003		3.1600e-003	3.1600e-003	0.0000	4.7483	4.7483	1.5400e-003	0.0000	4.7867
Total	9.1000e-003	0.0469	0.0511	5.0000e-005		3.4400e-003	3.4400e-003		3.1600e-003	3.1600e-003	0.0000	4.7483	4.7483	1.5400e-003	0.0000	4.7867

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	0.0171	0.5987	0.1713	1.6000e-003	0.0419	1.1500e-003	0.0430	0.0121	1.1000e-003	0.0132	0.0000	158.8771	158.8771	0.0126	0.0000	159.1914

Worker	0.0731	0.0471	0.5648	2.0600e-003	0.2315	1.5000e-003	0.2330	0.0615	1.3800e-003	0.0629	0.0000	186.2872	186.2872	3.7600e-003	0.0000	186.3812
Total	0.0902	0.6457	0.7362	3.6600e-003	0.2734	2.6500e-003	0.2760	0.0736	2.4800e-003	0.0760	0.0000	345.1643	345.1643	0.0163	0.0000	345.5726

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8700e-003	0.0458	0.0406	5.0000e-005		2.7700e-003	2.7700e-003		2.7700e-003	2.7700e-003	0.0000	4.7483	4.7483	1.5400e-003	0.0000	4.7867
Total	2.8700e-003	0.0458	0.0406	5.0000e-005		2.7700e-003	2.7700e-003		2.7700e-003	2.7700e-003	0.0000	4.7483	4.7483	1.5400e-003	0.0000	4.7867

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	0.0171	0.5987	0.1713	1.6000e-003	0.0341	1.1500e-003	0.0353	0.0102	1.1000e-003	0.0113	0.0000	158.8771	158.8771	0.0126	0.0000	159.1914
Worker	0.0731	0.0471	0.5648	2.0600e-003	0.1794	1.5000e-003	0.1808	0.0487	1.3800e-003	0.0501	0.0000	186.2872	186.2872	3.7600e-003	0.0000	186.3812
Total	0.0902	0.6457	0.7362	3.6600e-003	0.2135	2.6500e-003	0.2161	0.0589	2.4800e-003	0.0613	0.0000	345.1643	345.1643	0.0163	0.0000	345.5726

3.21 Phase 3: Site Demolition/ Clearing - 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					4.0800e-003	0.0000	4.0800e-003	6.2000e-004	0.0000	6.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0158	0.1572	0.1078	1.9000e-004		7.7600e-003	7.7600e-003		7.2100e-003	7.2100e-003	0.0000	17.0004	17.0004	4.7800e-003	0.0000	17.1200
Total	0.0158	0.1572	0.1078	1.9000e-004	4.0800e-003	7.7600e-003	0.0118	6.2000e-004	7.2100e-003	7.8300e-003	0.0000	17.0004	17.0004	4.7800e-003	0.0000	17.1200

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	1.4000e-004	4.9800e-003	1.3600e-003	1.0000e-005	3.3000e-004	2.0000e-005	3.4000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	1.4431	1.4431	1.5000e-004	0.0000	1.4469
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.1500e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6879	0.6879	1.0000e-005	0.0000	0.6883
Total	4.1000e-004	5.1600e-003	3.5100e-003	2.0000e-005	1.1500e-003	3.0000e-005	1.1700e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	2.1310	2.1310	1.6000e-004	0.0000	2.1352

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
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Category	tons/yr										MT/yr					
Fugitive Dust					1.7400e-003	0.0000	1.7400e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6200e-003	0.0916	0.1234	1.9000e-004		4.3100e-003	4.3100e-003		4.3100e-003	4.3100e-003	0.0000	17.0004	17.0004	4.7800e-003	0.0000	17.1200
Total	4.6200e-003	0.0916	0.1234	1.9000e-004	1.7400e-003	4.3100e-003	6.0500e-003	2.6000e-004	4.3100e-003	4.5700e-003	0.0000	17.0004	17.0004	4.7800e-003	0.0000	17.1200

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	1.4000e-004	4.9800e-003	1.3600e-003	1.0000e-005	2.6000e-004	2.0000e-005	2.8000e-004	7.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.4431	1.4431	1.5000e-004	0.0000	1.4469
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.1500e-003	1.0000e-005	6.4000e-004	1.0000e-005	6.4000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.6879	0.6879	1.0000e-005	0.0000	0.6883
Total	4.1000e-004	5.1600e-003	3.5100e-003	2.0000e-005	9.0000e-004	3.0000e-005	9.2000e-004	2.4000e-004	1.0000e-005	2.7000e-004	0.0000	2.1310	2.1310	1.6000e-004	0.0000	2.1352

3.22 Phase 3: 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					0.4077	0.0000	0.4077	0.1690	0.0000	0.1690	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1306	1.4210	1.0073	1.9800e-003		0.0622	0.0622		0.0576	0.0576	0.0000	173.1888	173.1888	0.0517	0.0000	174.4813

Total	0.1306	1.4210	1.0073	1.9800e-003	0.4077	0.0622	0.4699	0.1690	0.0576	0.2267	0.0000	173.1888	173.1888	0.0517	0.0000	174.4813
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0900e-003	0.2828	0.0793	7.2000e-004	0.0187	5.9000e-004	0.0193	5.3900e-003	5.6000e-004	5.9500e-003	0.0000	71.6263	71.6263	5.8000e-003	0.0000	71.7712
Worker	0.0397	0.0267	0.3113	1.1000e-003	0.1190	7.8000e-004	0.1197	0.0316	7.2000e-004	0.0323	0.0000	99.3867	99.3867	2.1300e-003	0.0000	99.4399
Total	0.0478	0.3095	0.3906	1.8200e-003	0.1376	1.3700e-003	0.1390	0.0370	1.2800e-003	0.0383	0.0000	171.0129	171.0129	7.9300e-003	0.0000	171.2111

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					0.1743	0.0000	0.1743	0.0723	0.0000	0.0723	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0477	0.9539	1.1828	1.9800e-003		0.0444	0.0444		0.0444	0.0444	0.0000	173.1886	173.1886	0.0517	0.0000	174.4811
Total	0.0477	0.9539	1.1828	1.9800e-003	0.1743	0.0444	0.2187	0.0723	0.0444	0.1167	0.0000	173.1886	173.1886	0.0517	0.0000	174.4811

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0900e-003	0.2828	0.0793	7.2000e-004	0.0152	5.9000e-004	0.0158	4.5400e-003	5.6000e-004	5.1000e-003	0.0000	71.6263	71.6263	5.8000e-003	0.0000	71.7712
Worker	0.0397	0.0267	0.3113	1.1000e-003	0.0921	7.8000e-004	0.0929	0.0250	7.2000e-004	0.0257	0.0000	99.3867	99.3867	2.1300e-003	0.0000	99.4399
Total	0.0478	0.3095	0.3906	1.8200e-003	0.1074	1.3700e-003	0.1088	0.0296	1.2800e-003	0.0308	0.0000	171.0129	171.0129	7.9300e-003	0.0000	171.2111

3.22 Phase 3: Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4077	0.0000	0.4077	0.1690	0.0000	0.1690	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0771	0.8136	0.6482	1.3400e-003		0.0349	0.0349		0.0324	0.0324	0.0000	117.5999	117.5999	0.0351	0.0000	118.4767
Total	0.0771	0.8136	0.6482	1.3400e-003	0.4077	0.0349	0.4426	0.1690	0.0324	0.2014	0.0000	117.5999	117.5999	0.0351	0.0000	118.4767

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	5.1600e-003	0.1813	0.0519	4.9000e-004	0.0127	3.5000e-004	0.0130	3.6600e-003	3.3000e-004	3.9900e-003	0.0000	48.1243	48.1243	3.8100e-003	0.0000	48.2195
Worker	0.0255	0.0164	0.1969	7.2000e-004	0.0807	5.2000e-004	0.0812	0.0214	4.8000e-004	0.0219	0.0000	64.9442	64.9442	1.3100e-003	0.0000	64.9769
Total	0.0307	0.1978	0.2488	1.2100e-003	0.0934	8.7000e-004	0.0943	0.0251	8.1000e-004	0.0259	0.0000	113.0685	113.0685	5.1200e-003	0.0000	113.1964

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					0.1743	0.0000	0.1743	0.0723	0.0000	0.0723	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0323	0.6473	0.8026	1.3400e-003		0.0301	0.0301		0.0301	0.0301	0.0000	117.5997	117.5997	0.0351	0.0000	118.4765
Total	0.0323	0.6473	0.8026	1.3400e-003	0.1743	0.0301	0.2044	0.0723	0.0301	0.1024	0.0000	117.5997	117.5997	0.0351	0.0000	118.4765

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	5.1600e-003	0.1813	0.0519	4.9000e-004	0.0103	3.5000e-004	0.0107	3.0800e-003	3.3000e-004	3.4100e-003	0.0000	48.1243	48.1243	3.8100e-003	0.0000	48.2195
Worker	0.0255	0.0164	0.1969	7.2000e-004	0.0625	5.2000e-004	0.0631	0.0170	4.8000e-004	0.0175	0.0000	64.9442	64.9442	1.3100e-003	0.0000	64.9769

Total	0.0307	0.1978	0.2488	1.2100e-003	0.0729	8.7000e-004	0.0737	0.0201	8.1000e-004	0.0209	0.0000	113.0685	113.0685	5.1200e-003	0.0000	113.1964
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3.23 Phase 3: Reconfigure Parking Lot - 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	0.0355	0.3276	0.4279	6.8000e-004		0.0172	0.0172		0.0161	0.0161	0.0000	59.0651	59.0651	0.0160	0.0000	59.4651
Paving	1.4000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0369	0.3276	0.4279	6.8000e-004		0.0172	0.0172		0.0161	0.0161	0.0000	59.0651	59.0651	0.0160	0.0000	59.4651

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	0.0126	8.0800e-003	0.0969	3.5000e-004	0.0397	2.6000e-004	0.0400	0.0106	2.4000e-004	0.0108	0.0000	31.9642	31.9642	6.5000e-004	0.0000	31.9803
Total	0.0126	8.0800e-003	0.0969	3.5000e-004	0.0397	2.6000e-004	0.0400	0.0106	2.4000e-004	0.0108	0.0000	31.9642	31.9642	6.5000e-004	0.0000	31.9803

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0160	0.3292	0.4926	6.8000e-004		0.0188	0.0188		0.0188	0.0188	0.0000	59.0650	59.0650	0.0160	0.0000	59.4651
Paving	1.4000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0174	0.3292	0.4926	6.8000e-004		0.0188	0.0188		0.0188	0.0188	0.0000	59.0650	59.0650	0.0160	0.0000	59.4651

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	0.0126	8.0800e-003	0.0969	3.5000e-004	0.0308	2.6000e-004	0.0310	8.3500e-003	2.4000e-004	8.5900e-003	0.0000	31.9642	31.9642	6.5000e-004	0.0000	31.9803
Total	0.0126	8.0800e-003	0.0969	3.5000e-004	0.0308	2.6000e-004	0.0310	8.3500e-003	2.4000e-004	8.5900e-003	0.0000	31.9642	31.9642	6.5000e-004	0.0000	31.9803

3.24 Phase 2: Landscaping/ TCO/ Punchlist - 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	0.0222	0.1741	0.1843	4.7000e-004		7.9400e-003	7.9400e-003		7.5000e-003	7.5000e-003	0.0000	40.8018	40.8018	0.0112	0.0000	41.0811
Total	0.0222	0.1741	0.1843	4.7000e-004		7.9400e-003	7.9400e-003		7.5000e-003	7.5000e-003	0.0000	40.8018	40.8018	0.0112	0.0000	41.0811

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2400e-003	0.1139	0.0326	3.1000e-004	7.9600e-003	2.2000e-004	8.1800e-003	2.3000e-003	2.1000e-004	2.5100e-003	0.0000	30.2270	30.2270	2.3900e-003	0.0000	30.2668
Worker	0.0154	9.9300e-003	0.1192	4.3000e-004	0.0489	3.2000e-004	0.0492	0.0130	2.9000e-004	0.0133	0.0000	39.3083	39.3083	7.9000e-004	0.0000	39.3281
Total	0.0187	0.1238	0.1518	7.4000e-004	0.0568	5.4000e-004	0.0574	0.0153	5.0000e-004	0.0158	0.0000	69.5353	69.5353	3.1800e-003	0.0000	69.6150

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	0.0110	0.2253	0.2712	4.7000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	40.8017	40.8017	0.0112	0.0000	41.0810
Total	0.0110	0.2253	0.2712	4.7000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	40.8017	40.8017	0.0112	0.0000	41.0810

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2400e-003	0.1139	0.0326	3.1000e-004	6.4900e-003	2.2000e-004	6.7100e-003	1.9400e-003	2.1000e-004	2.1400e-003	0.0000	30.2270	30.2270	2.3900e-003	0.0000	30.2868
Worker	0.0154	9.9300e-003	0.1192	4.3000e-004	0.0378	3.2000e-004	0.0382	0.0103	2.9000e-004	0.0106	0.0000	39.3083	39.3083	7.9000e-004	0.0000	39.3281
Total	0.0187	0.1238	0.1518	7.4000e-004	0.0443	5.4000e-004	0.0449	0.0122	5.0000e-004	0.0127	0.0000	69.5353	69.5353	3.1800e-003	0.0000	69.6150

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Diversity

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2878	1.2164	3.6644	0.0139	1.2764	0.0104	1.2867	0.3418	9.6200e-003	0.3514	0.0000	1,280.7088	1,280.7088	0.0533	0.0000	1,282.0422
Unmitigated	0.3071	1.3388	4.1793	0.0163	1.5045	0.0120	1.5165	0.4029	0.0111	0.4141	0.0000	1,498.4992	1,498.4992	0.0612	0.0000	1,500.0302

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse High Rise	1,086.80	1,086.80	1,086.80	3,713,761	3,150,619
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	132.96	132.96	132.96	252,969	214,610
Total	1,219.76	1,219.76	1,219.76	3,966,730	3,365,228

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Parking Lot	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
City Park	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Condo/Townhouse High Rise	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Strip Mall	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

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	743.1475	743.1475	0.0307	6.3500e-003	745.8061
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	817.4310	817.4310	0.0338	6.9800e-003	820.3554
NaturalGas Mitigated	0.0164	0.1399	0.0597	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	162.0257	162.0257	3.1100e-003	2.9700e-003	162.9885
NaturalGas Unmitigated	0.0197	0.1686	0.0719	1.0800e-003		0.0136	0.0136		0.0136	0.0136	0.0000	195.2078	195.2078	3.7400e-003	3.5800e-003	196.3678

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	3.65203e+006	0.0197	0.1683	0.0716	1.0700e-003		0.0136	0.0136		0.0136	0.0136	0.0000	194.8860	194.8860	3.7400e-003	3.5700e-003	196.0441
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	6030	3.0000e-005	3.0000e-004	2.5000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3218	0.3218	1.0000e-005	1.0000e-005	0.3237
Total		0.0197	0.1686	0.0719	1.0700e-003		0.0136	0.0136		0.0136	0.0136	0.0000	195.2077	195.2077	3.7500e-003	3.5800e-003	196.3678

Mitigated

	Natural Gas 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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	3.03102e+006	0.0163	0.1397	0.0594	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	161.7469	161.7469	3.1000e-003	2.9700e-003	162.7081
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	5223.6	3.0000e-005	2.6000e-004	2.2000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2788	0.2788	1.0000e-005	1.0000e-005	0.2804
Total		0.0164	0.1399	0.0597	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	162.0257	162.0257	3.1100e-003	2.9800e-003	162.9885

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	1.16744e+006	371.9703	0.0154	3.1800e-003	373.3010
Enclosed Parking with Elevator	1.32104e+006	420.9117	0.0174	3.6000e-003	422.4175
Parking Lot	41888	13.3464	5.5000e-004	1.1000e-004	13.3942
Strip Mall	35160	11.2027	4.6000e-004	1.0000e-004	11.2428
Total		817.4310	0.0338	6.9900e-003	820.3554

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	1.152e+006	367.0532	0.0152	3.1400e-003	368.3664
Enclosed Parking with Elevator	1.10591e+006	352.3668	0.0146	3.0100e-003	353.6274
Parking Lot	41888	13.3464	5.5000e-004	1.1000e-004	13.3942
Strip Mall	32581.2	10.3811	4.3000e-004	9.0000e-005	10.4182
Total		743.1475	0.0307	6.3500e-003	745.8061

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	1.1427	0.0796	2.7127	4.5000e-004		0.0188	0.0188		0.0188	0.0188	0.0000	60.5872	60.5872	5.3400e-003	1.0300e-003	61.0277
Unmitigated	1.1427	0.0796	2.7127	4.5000e-004		0.0188	0.0188		0.0188	0.0188	0.0000	60.5872	60.5872	5.3400e-003	1.0300e-003	61.0277

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	0.0887					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9665					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	5.6800e-003	0.0485	0.0207	3.1000e-004		3.9200e-003	3.9200e-003		3.9200e-003	3.9200e-003	0.0000	56.1921	56.1921	1.0800e-003	1.0300e-003	56.5260
Landscaping	0.0818	0.0310	2.6920	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3951	4.3951	4.2700e-003	0.0000	4.5017
Total	1.1427	0.0796	2.7127	4.5000e-004		0.0188	0.0188		0.0188	0.0188	0.0000	60.5872	60.5872	5.3500e-003	1.0300e-003	61.0277

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	0.0887					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9665					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	5.6800e-003	0.0485	0.0207	3.1000e-004		3.9200e-003	3.9200e-003		3.9200e-003	3.9200e-003	0.0000	56.1921	56.1921	1.0800e-003	1.0300e-003	56.5260
Landscaping	0.0818	0.0310	2.6920	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3951	4.3951	4.2700e-003	0.0000	4.5017
Total	1.1427	0.0796	2.7127	4.5000e-004		0.0188	0.0188		0.0188	0.0188	0.0000	60.5872	60.5872	5.3500e-003	1.0300e-003	61.0277

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	101.2293	0.4514	0.0114	115.9085
Unmitigated	119.1514	0.5639	0.0142	137.4740

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.19148	4.2177	1.7000e-004	4.0000e-005	4.2328
Condo/Townhouse/ High Rise	16.94 / 10.6796	113.4592	0.5565	0.0140	131.5297

Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.222218 / 0.136198	1.4746	7.3000e-003	1.8000e-004	1.7116
Total		119.1514	0.5639	0.0142	137.4740

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.1188	3.9604	1.6000e-004	3.0000e-005	3.9746
Condo/Townhouse/High Rise	13.552 / 10.0281	96.0222	0.4454	0.0112	110.4974
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.177774 / 0.12789	1.2467	5.8400e-003	1.5000e-004	1.4365
Total		101.2293	0.4514	0.0114	115.9085

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.4677	0.7368	0.0000	30.8882
Unmitigated	24.9354	1.4736	0.0000	61.7764

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.09	0.0183	1.0800e-003	0.0000	0.0453
Condo/Townhouse High Rise	119.6	24.2777	1.4348	0.0000	60.1470
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.15	0.6394	0.0378	0.0000	1.5841
Total		24.9354	1.4736	0.0000	61.7764

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
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Land Use	tons	MT/yr			
City Park	0.045	9.1300e-003	5.4000e-004	0.0000	0.0226
Condo/Townhouse High Rise	59.8	12.1389	0.7174	0.0000	30.0735
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	1.575	0.3197	0.0189	0.0000	0.7921
Total		12.4677	0.7368	0.0000	30.8882

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
