

Final **Air Quality** Existing Conditions and Impact Analysis Report For the Mira Mesa Community Plan Update San Diego, California



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Abbreviations and Acronyms

AAQS	Ambient Air Quality Standards
AB	Assembly Bill
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
City	City of San Diego
CO	Carbon Monoxide
CPA	Community Plan Area
CPIOZ	Community Plan Implementation Overlay Zones
CPU	Community Plan Update
DPM	Diesel Particulate Matter
GHGs	Greenhouse Gases
H ₂ S	Hydrogen Sulfide
HAPs	Hazardous Air Pollutants
I-15	Interstate 15
I-805	Interstate 805
MCAS	Marine Corps Air Station
NAAQS	National Ambient Air Quality Standards
NO	Nitric Oxide
NO ₂	Nitrogen Dioxide
NOAA	National Oceanic and Atmospheric Administration
NOx	Nitrogen Oxides
O ₃	Ozone
Pb	Lead
PM ₁₀	Particulate Matter 10 micrometers or less in diameter
PM _{2.5}	Particulate Matter 2.5 micrometers or less in diameter
RAQS	Regional Air Quality Strategy
SANDAG	San Diego Association of Governments
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SIP	State Implementation Plan
SO ₂	Sulfur Dioxide
TACs	Toxic Air Contaminants
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound



1 Introduction

The purpose of this report is to document the existing air quality conditions and any impacts to air quality related to the proposed Mira Mesa Community Plan Area (CPA) Community Plan Update (CPU).

The City of San Diego's (City) General Plan was adopted in 2008 and provides an overall comprehensive planning strategy and policy framework to shape long-term growth and development in the City. The proposed CPA supports the General Plan by providing localized goals and policies for the Mira Mesa CPA.

Air quality within the community is affected by population, vehicle usage trends and land usage. The content and implementation of laws, rules, regulations and policies promulgated by Federal, State and local agencies address and mitigate air emissions from a variety of sources. The main categories of air emission sources are stationary and mobile. Stationary sources include furnaces to heat buildings, gasoline stations, power plants, dry cleaners, manufacturing and other commercial and industrial equipment. Mobile sources include gas and diesel-powered motor vehicles, lawn care equipment, construction equipment, buses, trains and aircraft. Air emissions may increase or decrease throughout time, depending on current and future activity. Plans developed and implemented by the California Air Resources Board (CARB) and the San Diego Air Pollution Control District (SDAPCD) protect air quality within the region.

Analyzing increases or decreases in potential air emissions from future activities is known as an air quality impact analysis. The air quality impact analysis would evaluate the current conditions of the project and the project's air quality basin, or the meteorological region where air quality is expected to be similar due to shared air masses, wind and the terrain. California has 15 air basins that are used to manage the state on a regional basis. The Mira Mesa CPA is located within the San Diego Air Basin (SDAB).

The future project emissions estimates would be compared against established thresholds to determine if the proposed project would impact the air quality within the SDAB. The thresholds consider established ambient air quality standards (AAQS), policies and plans established by local, State and Federal entities. The SDAPCD and City are key local agencies managing air quality and the source of many of the guidelines, policies and plans aimed at regulating air quality.

An air quality impact analysis would attempt to quantitatively evaluate emissions from both the construction phase and operational phase of any additional development or project. The construction phase is the part of the project where short-term emissions are created due to demolition and construction activities. The operation phase is when the project has been completed and air emissions are resulting from the operation of installed equipment, the business or industry of the project (i.e., a fast-food restaurant) and traffic increases from additional workers, visitors, or residents. Operational emissions are often long-term and continue for the life of the project. Operational emissions are further evaluated for both regional impacts as well as local effects experienced by sensitive receptors within the CPA.

Estimated future project emissions would be compared to thresholds of significance to determine any significant impact to regional air quality. The thresholds of significance are adopted by a lead agency during the California Environmental Quality Act (CEQA) process. The City of San Diego has a published a



set of thresholds of significance (City of San Diego 2020a). The proposed Mira Mesa CPU goals are also evaluated from an air quality perspective. The proposed CPU would need to demonstrate compatibility with the adopted air quality plan. Mitigations measures would be discussed if the proposed projects indicate a significant impact based on comparison to the thresholds of significance. The air quality analysis will evaluate if the Mira Mesa CPU are compatible with adopted air quality plans for the SDAB.

2 Project Description

2.1 Project Location

The Mira Mesa CPA is located within the north-central portion of the City between the Interstate 805 (I-805) and Interstate 15 (I-15) corridors and is approximately 10,500 acres in area.

I-15 and the Miramar Ranch North and Scripps Miramar Ranch communities provide the eastern boundary of the CPA; Marine Corps Air Station (MCAS) Miramar, the southern boundary; I-805, the Atchison, Topeka and Santa Fe Railroad right-of-way, and the University and Torrey Pines communities, the western boundary; and Los Peñasquitos Canyon and the surrounding communities of Torrey Pines, Torrey Hills, Caramel Valley and Rancho Peñasquitos, the northern boundary.

Figure 1 shows the regional location of the CPA and Figure 2 shows an aerial view of the CPA.

2.2 Project Description

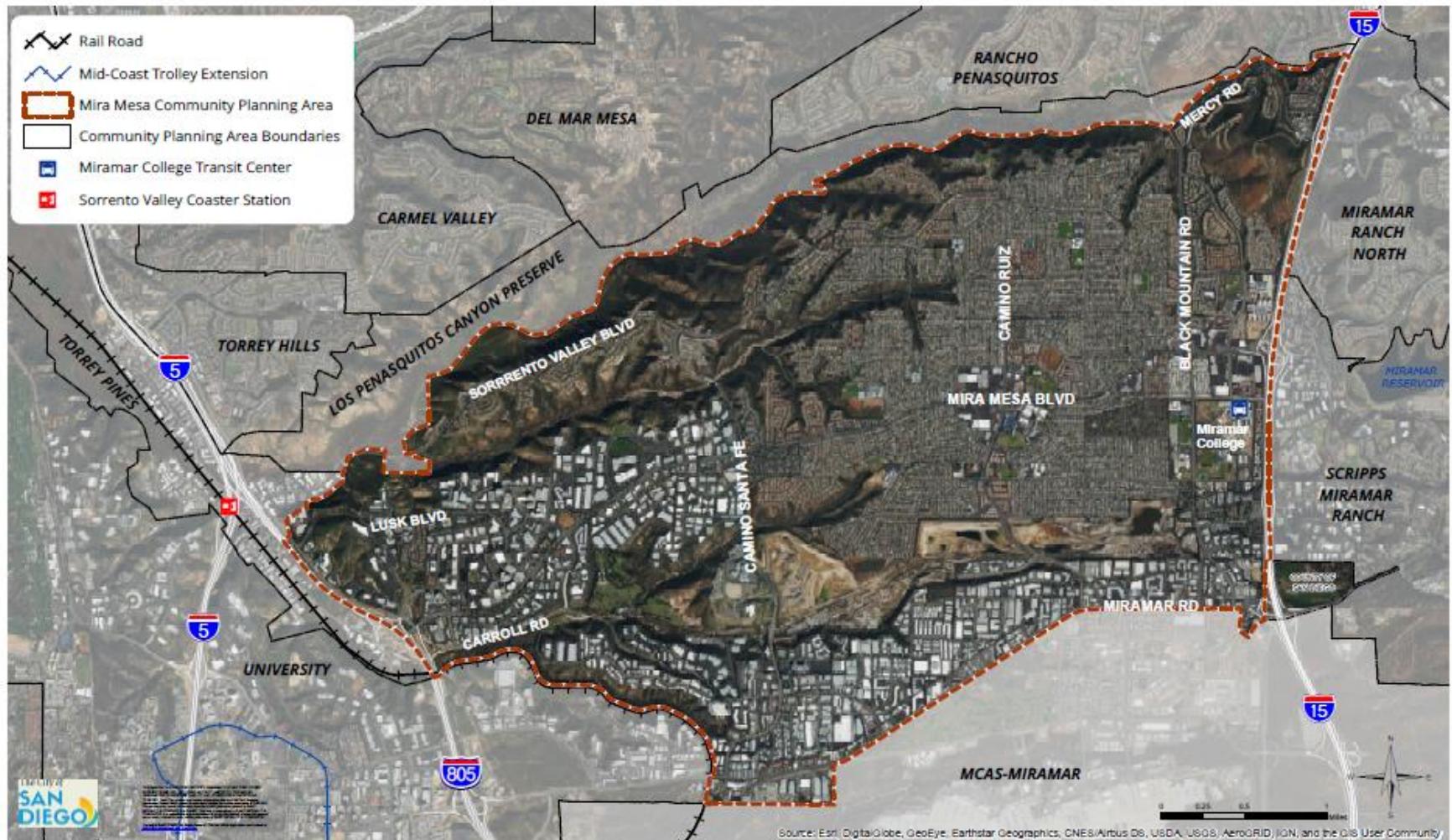
The Mira Mesa CPA is a major residential and employment center, with approximately 80,000 residents (City of San Diego 2018) and approximately 83,000 jobs (City of San Diego 2019). The Mira Mesa CPA is the largest industrial area in the region with a concentration of biotech, high-tech, defense, craft beverage/food and manufacturing clusters. The CPA is a major industrial, office, and commercial center located in central San Diego (see Figure 1).

The purpose of the proposed CPU is to update the current adopted Mira Mesa Community Plan by analyzing current land use, development and environmental characteristics; evaluating changes in demographics that may affect land use needs; understanding demand for housing, public facility and commercial development; determining key issues of concern and providing vision and objectives for the CPU; evaluating the “fit” of current Plan policies to achieve community goals and regulatory requirements; and to ensure that all policies and recommendations remain in harmony with the General Plan, Climate Action Plan and State mandates (City of San Diego 2018).

Figure 1 Regional Map of the Mira Mesa Community Plan Area



Figure 2 Mira Mesa Community Plan Area



3 Regulatory Framework

Air quality is defined by the ambient air concentrations of specific pollutants identified by the United States Environmental Protection Agency (USEPA), the CARB and the SDAPCD. Each agency regulates air quality by a set of laws, regulations and rules which are intended to lessen harmful air pollution in our communities. The most pertinent laws, regulations and rules for the CPU process are summarized below.

3.1 Federal

Under the Clean Air Act (CAA), the USEPA has established National Ambient Air Quality Standards (NAAQS) (40 Code of Federal Regulations Part 50) for criteria pollutants. An air quality standard defines the maximum amount of a pollutant averaged over a specified period that can be present in outdoor air without harmful effects on people or the environment. The NAAQS are a written standard where the concentration must be below a specific concentration for a specific averaging time. The averaging time is a designated time period that the concentration is measured over. Table 1 lists the NAAQS, including standards and averaging time. Each air basin in the country is evaluated against the NAAQS and is designated one of three possible attainment statuses for each criteria pollutant: nonattainment, attainment, or unclassified. Nonattainment means the air basin exceeds the standard and must make progress to lower the concentration of the specific pollutant(s). Attainment means the criteria pollutant is below the standard. Unclassified means not enough data is known. Federal regulations also require the development and implementation of State Implementation Plans (SIPs). These are plans that document how each area will work to reach and maintain attainment status for the NAAQS in which they are currently out of attainment with. A maintenance plan may also be required for areas that have been redesignated from nonattainment after air quality improvements.

Hazardous air pollutants (HAPs) are air pollutants known to cause cancer and other serious health impacts. The CAA requires the USEPA to regulate HAPs from categories of industrial facilities. Most HAPs originate from human-made sources including mobile sources, stationary sources and indoor sources (like building material and cleaning solvents). The USEPA addresses HAPs with a stationary permitting review known as the Urban Air Toxics Program. California has an extensive state program that includes both stationary and mobile sources known as the Air Toxics Program that further regulates HAPs but calls them “toxic air contaminants” (TACs) in the regulation (USEPA 2018).

Federal regulations also include volumes of requirements for air emission control technology and emission limits for specific sources and industries. Any emissions source within the Mira Mesa CPA would be required to follow all federal regulations.

3.2 California Air Resources Board

In 1959 California enacted legislation requiring the state Department of Public Health to establish air quality standards and necessary controls for motor vehicle emissions. California law continues to mandate California Ambient Air Quality Standards (CAAQS), which are often more stringent than national standards. The CAAQS predate the NAAQS set by the USEPA, which was created in 1970 and issued its first NAAQS in 1971.

CARB is the state regulatory agency with authority to enforce regulations to both achieve and maintain the NAAQS and CAAQS. State law makes CARB the lead agency for all purposes related to the federally

required SIP. SIPs are not single documents. They are a compilation of new and previously submitted plans, programs (such as monitoring, modeling, permitting, etc.), district rules, state regulations and federal controls. Many of California's SIPs rely on the same core set of control strategies, including emission standards for cars and heavy trucks, fuel regulations and limits on emissions from consumer products (CARB 2009). The local air quality control district works with CARB to manage and maintain regional air quality control plans. These plans are implemented through state and local rules and regulations.

Several key programs outlined by California legislative mandates regulate TACs. They include the Toxics Air Contaminant Identification and Control Program, the Air Toxics Hot Spots Information and Assessment Act, the Children's Environmental Health Protection Act and the Community Air Protection Program. The Health and Safety Code (§39655(a)) defines a TAC as "an air pollutant which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health." A substance that is listed as a HAP pursuant to subsection (b) of Section 112 of the CAA (42 United States Code Sec. 7412[b]) is a TAC. Under State law, the California Environmental Protection Agency, acting through CARB, is authorized to identify a substance as a TAC if it determines the substance is an air pollutant that may cause or contribute to an increase in mortality or an increase in serious illness, or that may pose a present or potential hazard to human health. In addition, substances which have been listed as federal HAPs pursuant to section 7412 of Title 42 of the United States Code are TACs under the air toxics program pursuant to section 39657 (b) of the California Health and Safety Code.

In addition to these programs, the local air pollution control district enforces air pollution regulations designed to reduce emissions from businesses and industries in the state (CARB 2020a). A primary target of TAC has been diesel particulate matter (DPM) and exceptionally complex set of strategies and regulations aimed to reduce the health effect from DPM. CARB published a handbook that is particularly meaningful for the CPU process titled the "Air Quality and Land Use Handbook, A Community Health Perspective" (CARB 2005).

The CARB also regulates greenhouse gases (GHG) through a series of programs including but not limited to a cap-and-trade style program. Most of these programs affect large emitters (powerplants, etc.) or the manufacturers of goods (i.e. vehicle manufacturers). Other programs are integrated into the local rules and regulations implemented by the local air pollution control district.

CEQA requires local government agencies to inform decision makers and the public about the potential environmental impacts of proposed projects and to reduce those environmental impacts to the extent feasible. The laws and rules governing the CEQA process are contained in the CEQA statute Public Resources Code Section 21000 and following, the CEQA Guidelines in California Code of Regulations Title 14, Section 150000 and following, published court decisions interpreting CEQA and locally adopted CEQA Procedures (State of California 2020). Section 15125(d) requires discussion of any inconsistencies between the project and applicable general plans and regional plans [for air quality], including the applicable attainment or maintenance plan or SIP. CEQA also requires analysis and identification of sensitive receptors for air quality impacts (i.e. schools, day cares and medical facilities) that may be impacted by air emissions where localized carbon monoxide (CO) is a concern and address odors.

3.3 San Diego Air Pollution Control District

The SDAPCD and San Diego Association of Governments (SANDAG) are responsible for developing and implementing the plan for attainment and maintenance of the AAQSS in the SDAB. The most recent version of the Regional Air Quality Strategy (RAQS) was adopted by the SDAPCD in 2016. The RAQS, in combination with those from all other California nonattainment areas with air quality problems, is submitted to the CARB, which develops the California SIP. The RAQS relies on information from CARB and SANDAG, including mobile and stationary source emissions and projected growth in the County, to project future emissions and then determine what strategies are necessary for the reduction of emissions through regulatory controls.

The SCAPCD also enforces local rules for air emissions sources that align with the requirements of the SIPs and other goals for air quality improvement in San Diego County. The SDAPCD has some of the most prescriptive rules for air quality management in the nation and include permitting requirements for nearly every type of stationary air pollutant source. These permitting requirements and detailed rules are designed to allow for development but limit unrestricted air emissions from one region without considering aggregate emissions. These rules include requirements for a monitoring network. Recent Assembly Bill (AB) 617 from 2017 resulted in a CARB establishment of the Community Air Protection Program to focus on reduction of exposure to air pollutants in the most affected communities in the states. However, this program focuses on portside communities in San Diego and does not include Mira Mesa currently.

SDAPCD Rule 51 is a specifically important rule to community development. Rule 51 prohibits emissions from any source whatsoever in such quantities of air contaminants or other material, which cause injury, detriment, nuisance, or annoyance to the public health or damage to property. Essentially these are odor complaints. Odor complaints from a “considerable” number of persons or businesses in the area will be considered a significant, adverse odor impact. Odors must be considered under CEQA.

Table 1 Ambient Air Quality Standards (AAQS)

Pollutant	Averaging Time	California		National Standards[a]		
		Standards [b,c]	Method [d]	Primary [c,e]	Secondary [c,f]	Method [d]
Ozone (O ₃)	1-hour	0.09 ppm (180 µg/m ³)	Ultraviolet Photometry	- [h]	Same as Primary Standard	- [h]
	8-hour	0.070 ppm (137 µg/m ³)		0.070 ppm		Ultraviolet Photometry
Carbon Monoxide (CO)	1-hour	20 ppm (23 mg/m ³)	Non-Dispersive Infrared Photometry	35 ppm	-	Non-Dispersive Infrared Photometry
	8-hour	9 ppm (10 mg/m ³)		9 ppm		
Nitrogen Dioxide (NO ₂)	Annual Arithmetic Mean	0.030 ppm (57 µg/m ³)	Gas Phase Chemi-luminescence	53 ppb	Same as Primary Standard	Gas Phase Chemi-luminescence
	1-hour	0.18 ppm (339 µg/m ³)		100 ppb		

Table 1 Ambient Air Quality Standards (AAQS)

Pollutant	Averaging Time	California		National Standards[a]			
		Standards [b,c]	Method [d]	Primary [c,e]	Secondary [c,f]	Method [d]	
Sulfur Dioxide (SO ₂)	Annual Arithmetic Mean	-	Ultraviolet Fluorescence	-	-	Ultraviolet Fluorescence; Spectro-photometry (Pararosaniline Method)	
	24-hour	0.04 ppm (105 µg/m ³)		-	-		
	3-hour	-		-	0.5 ppm		
	1-hour	0.25 ppm (655 µg/m ³)		75 ppb	-		
Respirable Particulate Matter (PM ₁₀)	Annual Arithmetic Mean	20 µg/m ³	Gravimetric or Beta Attenuation	- [h]	Same as Primary Standard	Inertial Separation and Gravimetric Analysis	
	24-hour	50 µg/m ³		150 µg/m ³			
Fine Particulate Matter (PM _{2.5})	Annual Arithmetic Mean	12 µg/m ³	Gravimetric or Beta Attenuation	12.0 µg/m ³	15.0 µg/m ³	Inertial Separation and Gravimetric Analysis	
	24-hour	-	-	35 µg/m ³	Same as Primary		
Lead [i]	30-day Average	1.5 µg/m ³	Atomic Absorption	-	-	-	
	Calendar Quarter	-		-	-	High Volume Sampler and Atomic Absorption	
	Rolling 3-Month Average	-		0.15 µg/m ³	Same as Primary Standard		
Visibility Reducing Particles	8-hour	[g]	Beta Attenuation and Transmittance through Filter Tape	No National Standards			
Sulfates	24-hour	25 µg/m ³	Ion Chromatography				
Hydrogen Sulfide	1-hour	0.03 ppm (42 µg/m ³)	Ultraviolet Fluorescence				
Vinyl Chloride	24-hour	0.01 ppm (26 µg/m ³)	Gas Chromatography				

Source: CARB 2016, USEPA 2016

Notes:

[a] National standards (other than ozone, PM and those based on annual averages or annual arithmetic means) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration in a year, averaged over 3 years, is equal to or less than the standard. The PM₁₀ 24-hour standard is attained when 99 percent of the



Table 1 Ambient Air Quality Standards (AAQS)

Pollutant	Averaging Time	California		National Standards[a]			
		Standards [b,c]	Method [d]	Primary [c,e]	Secondary [c,f]	Method [d]	
daily concentrations, averaged over 3 years, are equal to or less than the standard. The PM _{2.5} 24-hour standard is attained when 98 percent of the daily concentrations, averaged over 3 years, are equal to or less than the standard. Contact the EPA for further clarification and current federal policies.							
[b] California standards for ozone, CO (except Lake Tahoe), SO ₂ (1- and 24-hour), NO ₂ , PM and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. California Ambient Air Quality Standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.							
[c] Concentration expressed first in units in which it was promulgated [i.e., parts per million (ppm) or micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)]. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.							
[d] Any equivalent measurement method which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.							
[e] National Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.							
[f] National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.							
[g] In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.							
[h] The 1-hour ozone NAAQS was revoked on June 15, 2005 and the annual PM ₁₀ NAAQS was revoked in 2006.							
[i] CARB has identified lead and vinyl chloride as TACs with no threshold of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for this pollutant.							
[j] USEPA lowered the 24-hour PM _{2.5} standard from 65 $\mu\text{g}/\text{m}^3$ to 35 $\mu\text{g}/\text{m}^3$ in 2006. EPA issued attainment status designations for the 35 $\mu\text{g}/\text{m}^3$ standard on December 22, 2008. EPA has designated the Bay Area as nonattainment for the 35 $\mu\text{g}/\text{m}^3$ PM _{2.5} standard. The EPA designation will be effective 90 days after publication of the regulation in the Federal Register.							
<i>Legend:</i> AAQS = Ambient Air Quality Standards; CO = Carbon Monoxide; O ₃ = Ozone; NO ₂ = Nitrogen Dioxide; SO ₂ = Sulfur Dioxide; ppm = parts per million; μg = microgram; m^3 = cubic meters; ppb = parts per billion; PM ₁₀ = Particulate Matter 10 micrometers or less in diameter; PM _{2.5} = Particulate Matter 2.5 micrometers or less in diameter; USEPA = United States Environmental Protection Agency							

4 Air Pollutants of Concern

Air Pollutants most concerning to human health and the health of the environment have three major categories: criteria pollutants, toxic air pollutants and odors.

4.1 Attainment Status

The USEPA and CARB designate air basins for their attainment status (see Section 3.1 and 3.2). As shown in Table 2, SDAB currently meets all NAAQS for all criteria pollutants except ozone and meets the CAAQS for all criteria pollutants except ozone, particulate matter 10 micrometers or less in diameter (PM₁₀) and particulate matter 2.5 micrometers or less in diameter (PM_{2.5}). The SDAB currently also falls under a federal maintenance plan for CO because it was redesignated from nonattainment.

Table 2 SDAB Attainment Status

Criteria Pollutant	Federal Designation	State Designation
Ozone (8-hour)	Nonattainment	Nonattainment
Ozone (1-Hour)	Attainment*	Nonattainment
Carbon Monoxide (CO)	Attainment [Maintenance Plan due to prior Nonattainment]	Attainment
PM ₁₀	Unclassifiable**	Nonattainment
PM _{2.5}	Attainment	Nonattainment
Nitrogen Dioxide	Attainment	Attainment
Sulfur Dioxide	Attainment	Attainment
Lead	Attainment	Attainment
Sulfates	No Federal Standard	Attainment
Hydrogen Sulfide	No Federal Standard	Unclassifiable
Visibility	No Federal Standard	Unclassifiable

Source: CARB 2016, USEPA 2015, USEPA 2020, SDAPCD 2016, SCAPCD 2022

Notes:

* The federal 1-hour standard for Ozone (1-Hour) was no longer in effect as of June 15, 2005. This standard is revoked but is referenced in many SIPs.

** Unclassifiable is when available data does not support a designation of attainment or nonattainment at the time of designation.

Legend: SDAB = San Diego Air Basin; CO = Carbon Monoxide; PM₁₀= Particulate Matter 10 micrometers or less in diameter; PM_{2.5}= Particulate Matter 2.5 micrometers or less in diameter; USEPA = United States Environmental Protection Agency

4.2 Criteria Air Pollutants

Federal and state laws regulate air pollutants as described in Section 3. Table 2 indicates that SDAB is in nonattainment for specific criteria pollutants, namely ozone. Criteria pollutants have specific health effects. The following are the specific descriptions as provided by the USEPA and CARB (World Health Organization 2020; CARB 2020b).

Ozone (O₃). O₃ is considered a photochemical oxidant, which is a chemical that is formed when volatile organic compounds (VOCs) and oxides of nitrogen (NO_x), both by products of fuel combustion, react in the presence of ultraviolet light. Ozone is considered a respiratory irritant and prolonged exposure can reduce lung function, aggravate asthma and increase susceptibility to respiratory infections. Children and those with existing respiratory diseases are at greatest risk from exposure to ozone.

Reactive Organic Gases (ROGs). ROGs (also known as VOCs) are compounds composed primarily of hydrogen and carbon atoms. Internal combustion associated with motor vehicle usage is the major source of ROGs. Other sources of ROGs include evaporative emissions from paints and solvents, the application of asphalt paving, and the use of household consumer products such as aerosols. Adverse effects on human health are not caused directly by ROGs, but rather by reactions of ROGs to form secondary pollutants such as ozone.

Carbon Monoxide. CO is a product of fuel combustion and the main source of CO in the SDAB is from motor vehicle exhaust. CO is an odorless, colorless gas. CO affects red blood cells in the body by binding to hemoglobin and reducing the amount of oxygen that can be carried to the body's organs and tissues.

CO can cause health effects to those with cardiovascular disease and can also affect mental alertness and vision. CO at very high concentration results in unconsciousness and eventually death.

Nitrogen Dioxide (NO₂). NO₂ is also a by-product of fuel combustion and is formed both directly as a product of combustion and in the atmosphere through the reaction of nitric oxide (NO) with oxygen. NO₂ is a respiratory irritant and may affect those with existing respiratory illness, including asthma. NO₂ can also increase the risk of respiratory illness. Nitrogen dioxide is often represented in air quality discussions as the more generic listing of NO_x. Diesel engines are a primary source of NO_x.

Respirable Particulate Matter and Fine Particulate Matter. Respirable particulate matter, or PM₁₀, refers to particulate matter with an aerodynamic diameter of 10 microns or less. Fine particulate matter, or PM_{2.5}, refers to particulate matter with an aerodynamic diameter of 2.5 microns or less. Particulate matter in these size ranges has been determined to have the potential to lodge in the lungs and contribute to respiratory problems. PM₁₀ and PM_{2.5} arise from a variety of sources, including road dust, diesel exhaust, fuel combustion, tire and brake wear, construction operations and windblown dust. PM₁₀ and PM_{2.5} can increase susceptibility to respiratory infections and can aggravate existing respiratory diseases such as asthma and chronic bronchitis. PM_{2.5} is considered to have the potential to lodge deeper in the lungs.

Sulfur dioxide. Sulfur dioxide (SO₂) is a colorless, reactive gas that is produced from the burning of sulfur-containing fuels such as coal and oil and by other industrial processes. Generally, the highest concentrations of SO₂ are found near large industrial sources. SO₂ is a respiratory irritant that can cause narrowing of the airways leading to wheezing and shortness of breath. Long-term exposure to SO₂ can cause respiratory illness and aggravate existing cardiovascular disease.

Lead. Lead (Pb) in the atmosphere occurs as particulate matter. Pb has historically been emitted from vehicles combusting leaded gasoline, as well as from industrial sources. With the phaseout of leaded gasoline, large manufacturing facilities are the sources of the largest amounts of lead emissions. Pb has the potential to cause gastrointestinal, central nervous system, kidney and blood diseases upon prolonged exposure. Pb is also classified as a probable human carcinogen.

Sulfates. Sulfates are the fully oxidized ionic form of sulfur. In California, emissions of sulfur compounds occur primarily from the combustion of petroleum-derived fuels (e.g., gasoline and diesel fuel) that contain sulfur. This sulfur is oxidized to SO₂ during the combustion process and subsequently converted to sulfate compounds in the atmosphere. The conversion of SO₂ to sulfates takes place comparatively rapidly and completely in urban areas of California due to regional meteorological features. The CARB's sulfates standard is designed to prevent aggravation of respiratory symptoms. Effects of sulfate exposure at levels above the standard include a decrease in ventilatory function, aggravation of asthmatic symptoms and an increased risk of cardio-pulmonary disease. Sulfates are particularly effective in degrading visibility and because they are usually acidic, can harm ecosystems and damage materials and property.

Hydrogen Sulfide. Hydrogen sulfide (H₂S) is a colorless gas with the odor of rotten eggs. It is formed during bacterial decomposition of sulfur-containing organic substances. Also, it can be present in sewer gas and some natural gas and can be emitted as the result of geothermal energy exploitation. Breathing H₂S at high levels results in acute respiratory distress or even death. In 1984, a CARB committee

concluded that the ambient standard for H₂S is adequate to protect public health and to significantly reduce odor annoyance.

Vinyl Chloride. Vinyl chloride, a chlorinated hydrocarbon, is a colorless gas with a mild, sweet odor. Most vinyl chloride is used to make polyvinyl chloride plastic and vinyl products. Vinyl chloride has been detected near landfills, sewage plants and hazardous waste sites, due to microbial breakdown of chlorinated solvents. Short-term exposure to high levels of vinyl chloride in air causes central nervous system effects, such as dizziness, drowsiness and headaches. Long-term exposure to vinyl chloride through inhalation and oral exposure causes liver damage.

Visibility-Reducing Particles. Visibility-reducing particles consist of suspended particulate matter, which is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings and small droplets of liquid. These particles vary greatly in shape, size and chemical composition and can be made up of many different materials such as metals, soot, soil, dust and salt. These particles in the atmosphere would obstruct the range of visibility. This standard is intended to limit the frequency and severity of visibility impairment due to regional haze.

4.3 Toxic Air Contaminant (TAC)

Toxic air contaminants (TACs) are a diverse group of air pollutants that may cause or contribute to an increase in deaths or in serious illness or that may pose a present or potential hazard to human health. TACs include both organic and inorganic chemical substances that may be emitted from a variety of common sources, including gasoline stations, motor vehicles, dry cleaners, industrial operations, painting operations, and research and teaching facilities. TACs are different than the criteria pollutants previously discussed because ambient air quality standards have not been established for TACs. TACs occurring at extremely low levels may still cause health effects, and it is typically difficult to identify levels of exposure that do not produce adverse health effects. TAC impacts are described by carcinogenic risk and by chronic (i.e., of long duration) and acute (i.e., severe but of short duration) adverse effects on human health.

Diesel exhaust, especially DPM, is a common TAC that is an air pollutant of concern for the CPA.

Diesel exhaust is considered a complex mixture of thousands of gases and fine particles emitted by a diesel-fueled internal combustion engine. Almost all the diesel exhaust particulate mass is in the fine particle range of 10 microns or less in diameter. Because of this small size, particles can be inhaled and eventually trapped into bronchial and alveolar regions of the lung. Health effects of diesel exhaust include classification as a respiratory irritant, aggravate asthma and increase risk in the likelihood of cancer (CARB 1998).

The list of TACs, inclusive of the list of HAPs, is extensive and complete description of each is out of the scope of this document. However, most TACs not discussed above are the result of an industrial process or stationary equipment which is evaluated on an individual basis prior to construction. Existing businesses in Mira Mesa would have their stationary emissions reviewed by the SDAPCD and evaluated for TACs prior to permits to construct. Emissions of TACs would be controlled using control technology.

4.4 Odors

Odors are defined specifically by the SDAPCD as emissions which cause injury, detriment, nuisance, or annoyance to the public health or damage the property. Odor sources are commonly wastewater

treatment plants, chemical manufactures, fertilizer plants and similar. While odors from animal husbandry can be offensive, they are generally exempt from regulation. Sources of odors of concern within the CPA are not plentiful based on a review of existing conditions. The North City Water Reclamation Plant, a wastewater treatment plant, is located to the southeast of the CPA and is not within the boundaries of Mira Mesa.

5 Existing Air Conditions

5.1 Geographic Setting

The Mira Mesa CPA is in the SDAB between two and a half and eight miles east of the Pacific Ocean. The CPA is located between two major highways. The CPA includes portions of Los Peñasquitos Canyon Preserve to the north, and a combination of canyons and mesas common in northern San Diego. Most of the developed areas are along the mesas. Generally, the CPA is not positioned against any mountains that would restrict airflow.

The topology of the SDAB is unique and varied and drives pollutant levels. To the west are beaches and the Pacific Ocean, to the south is Tijuana, Mexico and the Baja California Peninsula, to the near east are the mountains, to the far east is the desert (the Salton Sea Air Basin), and to the north is the South Coast Air Basin (the greater Los Angeles-Riverside-San Bernardino area). The SDAB is not classified as a contributor to high levels of air pollutants, but is classified as a transient recipient, or an Air Basin that receives pollutants transported from other air basins. When winds are from the north, transport pollutants like O₃, NO_x and VOCs are transported from the South Coast Air Basin. Winds from the south transport many of the same pollutants from Tijuana, Mexico (SDAPCD 2016).

5.2 Climate

The climate of San Diego is classified as Mediterranean, but in fact is incredibly diverse because of the topology. Temperature, humidity, precipitation and wind all affect local air quality. The Pacific High dominates the climate and results in mild, dry summers and mild, wet winters. San Diego has on average 201 days above 70 degrees Fahrenheit annually. Relative humidity is higher in the morning and lower in the afternoon but is around 69 percent on average. Rainfall is usually between 9 – 13 inches but is dependent on El Niño and La Niña patterns. An El Niño is a warming of the surface waters of the eastern Pacific Ocean. It is a climate pattern that occurs across the tropical Pacific Ocean that is associated with drastic weather occurrences, including enhanced rainfall in Southern California. La Niña is a term for cooler than normal sea surface temperatures across the Eastern Pacific Ocean. San Diego receives less than normal rainfall during La Niña years.

The Pacific High drives the prevailing winds in the SDAB. The winds tend to blow onshore in the daytime and offshore at night. In the summer, an inversion layer is created over the coastal areas and increases the O₃ levels. Mira Mesa likely experiences this inversion layer effects. In the winter, San Diego often experiences a shallow inversion layer which tends to increase CO and PM_{2.5} concentration levels due to the increased use of residential wood burning.

In the fall months, the SDAB is often impacted by Santa Ana winds. These winds are the result of a high-pressure system over the Nevada-Utah region that overcomes the westerly wind pattern and forces hot, dry winds from the east to the Pacific Ocean. These winds are powerful and incessant. They blow the air basin's pollutants out to sea. However, a weak Santa Ana can transport air pollution from the South

Coast Air Basin and greatly increase the SDAB's O₃ concentrations. A strong Santa Ana also primes the vegetation for firestorm conditions (National Oceanic and Atmospheric Administration [NOAA] 2019, SCAPCD 2019a, 2019b).

5.3 Land Use and Development

The existing Mira Mesa CPA land use is indicative of the activities on site, which can affect the air quality within the region. Currently, the Mira Mesa CPA is auto-centric and people depend on personal automobiles to reach residences, services and employment within the CPA.

Different land uses have different potentials for both stationary emissions and mobile emissions. Industrial land usage may have a higher incidence of toxic air pollutant emissions due to the presence of manufacturing or industrial sized building heating and cooling equipment. The graph below on Figure 3 shows the existing land use. A map showing Land Use is shown on Figure 4.

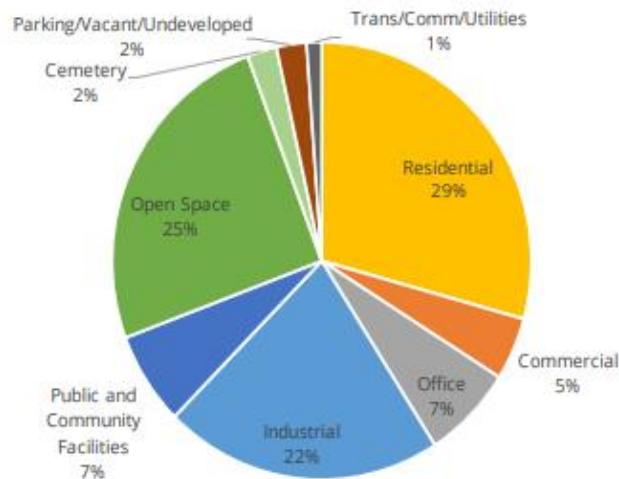


Figure 3 Mira Mesa Land Use

(City of San Diego 2018)

Density of land use is an important indicator of existing sources of air pollution. Four dwelling units on an acre has different mobile emissions sources when compared to 45 dwelling units on an acre. In Mira Mesa, the most common designated residential development density is between 5-9 dwelling units per acre with an average of 8 units per acre.

As for industrial usage, there are two types listed, split almost evenly in acreage between Industrial Park (intended for industrial usages and office parks) and Light Industrial (allows for light manufacturing and research and development uses). According to the 2018 CoStar Industrial Submarket Report for Mira Mesa/Miramar Industrial, Mira Mesa is well positioned for sorting facilities, service industries and logistics industries. Prominent tenants include FedEx, OnTrac, Ballast Point Brewery and other brewing specialties and BioLegend, a biomedical research company.

Sorrento Mesa, within the Mira Mesa CPA, is a special Subregional Employment Area due to its industrial land use and support of various high-tech, life science and manufacturing sectors. This area is important because it contributes to the City's economic prosperity but it also has the highest likelihood of emissions from work commutes and operation of the businesses. Sorrento Mesa, located in the area

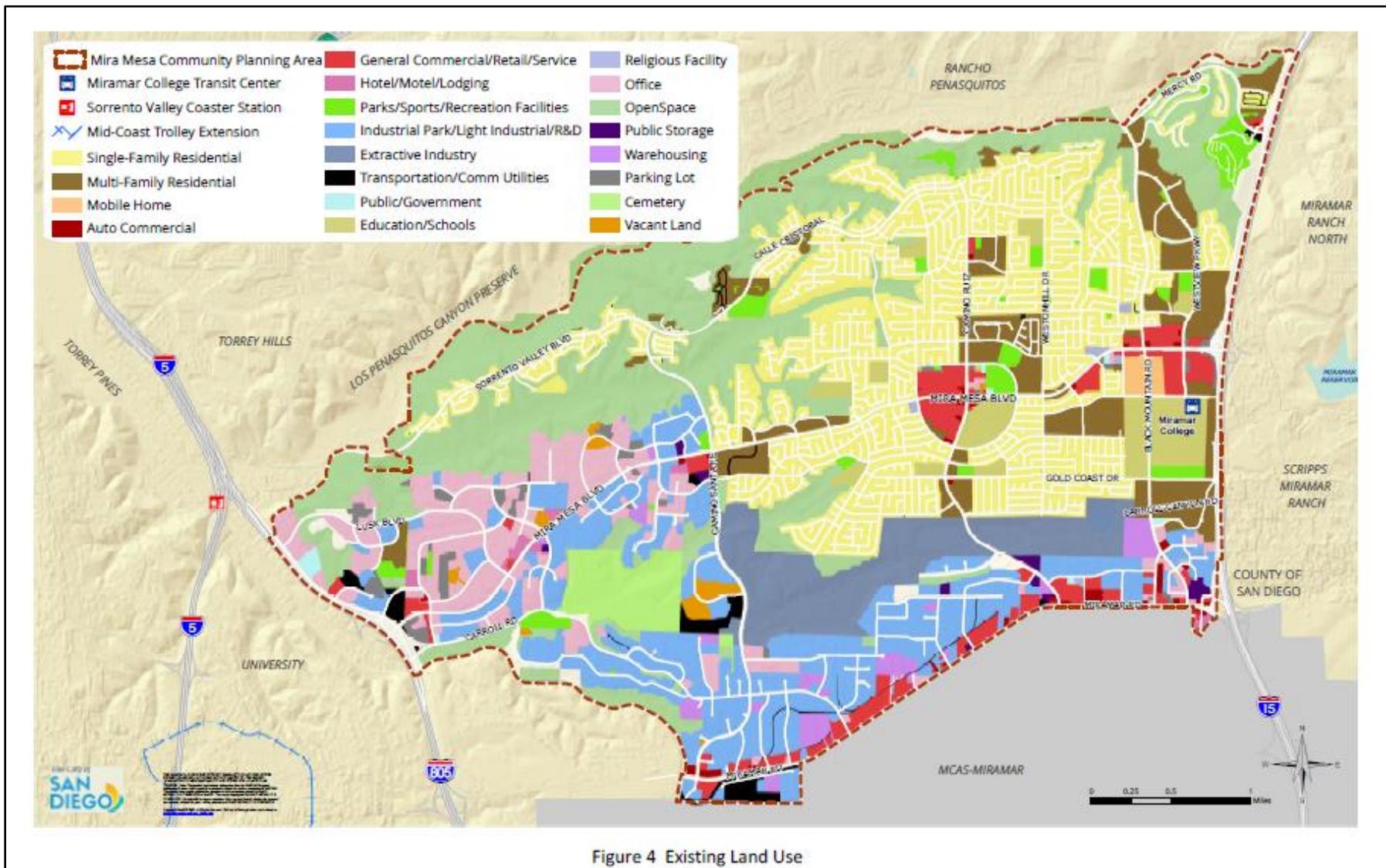
near I-805 along Mira Mesa Boulevard, also has some of the densest commercial and industrial uses. This means it is an area with a higher amount of commuter traffic by car, transit, or walking and biking. Sorrento Mesa has the highest concentration and intensity of jobs.

Mira Mesa is also home to Miramar College, a postsecondary school, and multiple elementary, junior high and senior high schools centrally located within the CPA. Generally, the land uses are kept in similar areas, with the industrial in designated areas as opposed to being interspersed with residential and educational facilities.

Other land uses and features in or near the CPA that affect the air quality within the CPA are:

- The presence of MCAS Miramar to the south and the aircraft activity related to the base.
- The proximity of two major multi-lane freeways. Over 40 percent of GHG emissions in San Diego are from vehicle usage (CARB 2020b, SCAPCD 2019b, SCAPCD 2016).
- Multilane primary roads within the CPA that accumulate traffic from smaller roads and connect to major roads such as the interstate. Many of those employed in Mira Mesa do not live in Mira Mesa. In 2015, approximately 75,000 workers commuted into Mira Mesa, 7,000 workers live and worked in Mira Mesa and about 27,000 workers live in Mira Mesa but commute outside of Mira Mesa. This may result in potential hotspots at key busy intersections. 78.7 percent of workers drove alone to work.
- Mira Mesa has a significant number of hazardous waste sites compared to other census tracts in California. This increases the likelihood of existing emissions of VOCs and other toxic air pollutants from these businesses.

Figure 4 Existing Land Use





5.4 Sensitive Receptors

Sensitive receptors include but are not limited to residences, schools, hospitals, resident care facilities and daycare centers. Mira Mesa has many of these receptors:

- Residences are located throughout the CPA. Areas of current residential usage are shown in Figure 4.
- Schools are located primarily in the eastern half of the CPA, away from the industrial centers. However, many are located along main roads with busy intersections.
- No true overnight hospitals are located in the CPA.
- Only one assisted living center was identified along Gold Coast Drive, near Mason Elementary School.
- Several day care centers are located within the eastern half of the CPA, near elementary schools and other residences. There are a few day care centers located within the Sorrento Mesa, in the vicinity of Pacific Heights Boulevard and Mira Mesa.

These sensitive receptors would need to be evaluated during any future CEQA analyses at the project level.

5.5 Existing Air Quality

Air quality within any specific point in Mira Mesa CPA is a function of the kinds, amounts and dispersion rates of pollutants being emitted into the air locally and throughout the basin. Local sources emit pollutants that affect the air quality. Pollutants that are blown in via wind conditions from the north and south regions, also known as dispersion, around the CPA also affect pollutant levels with the Mira Mesa CPA. Dispersion is affected by wind speed and direction, including wind disruptions by topography or buildings. Inversions can also disrupt the upward dispersion of pollutants and increase pollutant concentration in certain areas.

CARB and the SCAPCD measure regional air quality with monitoring stations. The monitoring stations measure ambient air pollutant concentrations. Mira Mesa CPA does not have an air quality monitoring station within the CPA boundaries. The closest monitoring station with published data is at 6125A Kearny Villa Road, which is approximately 2.5 miles south of Mira Mesa.

The air quality in Mira Mesa CPA, especially at a specific location, will vary from the monitoring stations. However, the monitoring stations give a good insight into the local region air quality. Table 3 presents the most recent data over the past three years from the monitoring stations as summaries of exceedances of standards and the highest pollutant levels recorded for 2018 to 2020, which is the newest published data. These concentrations represent the existing or baseline conditions, for the project area. Ozone has exceeded the standards listed in Table 3 within the past three years, but nitrogen dioxide, PM_{2.5} and PM₁₀ have not.

Table 3 Air Quality Measurements Recorded at the San Diego – Kearny Villa Road Monitoring Station

Pollutant/Standard	2018	2019	2020
San Diego – Kearny Villa Road			
Ozone			
Days 1-hour CAAQS Exceeded (0.09 ppm)	1	0	2

Table 3 Air Quality Measurements Recorded at the San Diego – Kearny Villa Road Monitoring Station

Days 8-hour CAAQS Exceeded (0.07 ppm)	5	1	12
Days Federal 8-hour NAAQS Exceeded (0.07 ppm)	5	1	10
Max. 1-hr concentration (ppm)	0.102	0.083	0.123
Max 8-hr concentration (ppm)	0.077	0.076	0.102
Nitrogen Dioxide (NO ₂)			
Days 1-hour CAAQS Exceeded (0.18 ppm)	0	0	0
Days Federal 1-hour NAAQS Exceeded (0.100 ppm)	0	0	0
Max 1-hr concentration (ppm)	0.045	0.046	0.052
Annual Average concentration (ppm)	0.008	0.008	0.007
Particulate Matter less than 10 microns in diameter (PM ₁₀)			
Days 24-hour CAAQS Exceeded (50 µg/m ³)	0	*	*
Days Federal 24-hour NAAQS Exceeded (150 µg/m ³)	0	*	*
Max Daily concentration (µg/m ³)	38	*	*
Annual Average concentration (µg/m ³)	18.4	*	*
Exceed CAAQS Annual Arithmetic Mean (20 µg/m ³)	No	*	*
Particulate Matter less than 2.5 microns in diameter (PM _{2.5})			
Days Federal 24-hour NAAQS Exceeded (35 µg/m ³)	0	0	5.8
Max Daily concentration (µg/m ³)	32.2	16.2	47.5
State Annual Average concentration (µg/m ³)	8.3	*	*
Federal Annual Average concentration (µg/m ³)	8.3	7	8.7
Exceed CAAQS/NAAQS Primary Annual Arithmetic Mean (12 µg/m ³)	No	*	*
Exceed NAAQS Secondary Annual Arithmetic Mean (15 µg/m ³)	No	No	No

Source: CARB 2022; SDAPCD 2019b
Notes: * = Insufficient (or no) data available to determine the value.
Legend: ppm = parts per million; µg = microgram; m³ = cubic meters; CAAQS = California Ambient Air Quality Standards; NAAQS = National Ambient Air Quality Standards

6 Guidelines for the Determination of Significance

Thresholds used to evaluate the potential impacts to air quality and odor impacts are based on applicable criteria in the State's California Environmental Quality Act (CEQA) Guidelines Appendix G, the City's CEQA Significance Determination Thresholds (2016), and applicable air district screening-level thresholds described below. Thresholds have been modified from the City's CEQA Significance Determination Thresholds to reflect a programmatic analysis for the proposed CPU. A significant air quality and/or odor impact could occur if the proposed CPU would:

1. Conflict with or obstruct implementation of the applicable air quality plan (the San Diego RAQS or SIP).
2. Violate any air quality standard (NAAQS or CAAQS) or contribute substantially to an existing air quality violation,
3. Expose sensitive receptors to substantial pollutant concentrations.
4. Create objectionable odors that affects a substantial number of people.

Many of these significance thresholds are based on published regulatory thresholds; however regulatory thresholds are not the only threshold for significance. Each project undergoing CEQA consideration must consider both regulatory thresholds and substantial evidence supported in a fair argument that a significant impact would occur.

Analysts complete an impact analysis for air quality by comparing a quantitative estimate of air pollutant emissions to the screening -level thresholds to determine if a potential impact may occur. This comparison ensures potential impacts are reviewed in accordance with the City's CEQA Significance Determination Thresholds (City of San Diego 2020a). Analysts compare the results of the quantitative estimate of air pollutants from future construction and operation of planned elements to the Screening-level Thresholds shown in Table 4.

Table 4 provides a list of Screening-level Thresholds for Air Quality Impact Analysis that encompasses multiple sources including SDAPCD regulatory thresholds, best management practices from other CEQA evaluations and other air pollution control district thresholds. The Thresholds are published in the City's CEQA Significance Determination Thresholds (City of San Diego 2020a). These Thresholds of Significance are used as a screening tool to see where the project aligns along a sliding scale of potential significance (City of San Diego 2020a).

Table 4 Screening-Level Thresholds for Air Quality Impact Analysis			
Construction Emissions			
Pollutant	Total Emissions (Pounds per Day)		
PM ₁₀	100		
PM _{2.5}	55 ^[1]		
NO _x	250		
SO _x	250		
CO	550		
VOC	75		
Operational Emissions			
Pollutant	Emissions – Pounds per Hour	Emissions – Pounds per Day	Emissions – Tons per Year
PM ₁₀	--	100	15
PM _{2.5}	--	55	10
NO _x	25	250	40
SO _x	25	250	40
CO	100	550	100
VOC	--	137	15
Lead and Lead Compounds	--	3.2	0.6
Toxic Air Contaminant Emissions			
Health Concern	Threshold		
Excess Cancer Risk	1 in 1 million (no control technologies) 10 in 1 million (if using best available control technologies for toxics that are approved by the SDAPCD)		

Table 4 Screening-Level Thresholds for Air Quality Impact Analysis

Non-Cancer Hazard	1.0
Sensitive Receptors – Localized Concerns	
Pollutant	Threshold
CO	31,600 vehicles per hour (after which additional CO “Hotspot” analyses required) based on recommendations from the Sacramento Metropolitan Air Quality Management District from 2011.
PM	Project needs to be determined if it is a project of local air quality concern (by CalTrans) (CalTrans 2017).
Criteria or TAC	If stationary emissions source is within ½ mile of sensitive receptor, additional analyses are possibly needed. Also see TAC Health Concerns.

Source: City of San Diego 2020a, SDAPCD Administrative Rules, CARB 2005, Caltrans 2017, State of California 2020
Legend: PM₁₀ = Particulate Matter 10 micrometers or less in diameter; PM_{2.5} = Particulate Matter 2.5 micrometers or less in diameter; NO_x = Nitrogen Dioxide; SO_x = Sulfur Oxide; CO = Carbon Monoxide; VOC = Volatile Organic Compound; SDAPCD = San Diego Air Pollution Control District; PM = particulate matter; TAC = toxic air contaminant
[1] For sensitive receptors (South Coast Air Quality Management District, 2006).

Table 4 includes specific sensitive receptor qualitative and quantitative thresholds for air toxics such as diesel particulates, which is expressed as PM_{2.5}. This threshold is sourced from the South Coast Air Quality Management District’s (SCAQMD’s) screening threshold of 55 pounds per day as recommended by the City’s CEQA Significance Determination Thresholds (City of San Diego 2020a, South Coast Air Quality Management District 2006).

Another threshold evaluated for sensitive receptors is localized CO concentration or CO hot spots, which primarily results from high levels of motor vehicle activity at signalized intersections. Specific atmospheric conditions (a calm stable day) and sufficient vehicles sitting at idle can result in localized CO concentrations above safe levels.

If these screen-level thresholds are exceeded by the projected CPU build-out, the SDAPCD requires an additional air quality analysis to determine if a significant air quality impact would occur. If the estimated emissions for the proposed CPU build-out are under these thresholds, the project is considered to be consistent with regional air quality plans as long as all construction and operation follow all other air quality regulations (such as idling restriction, state heavy equipment emissions standards, state motor vehicle emissions requirements, requirements for best available control technologies and attainment of pre-construction permits). No further analysis would be required for projects under the thresholds for significance.

The proposed CPU and associated build-out estimated emissions would also have to be compared both quantitatively and qualitatively to the SDAPCD RAQS. Inconsistencies between the proposed CPU and the RAQS would be considered a potentially significant impact on regional air quality (i.e. if the CPU proposes greater density than what was evaluated in the RAQS).

SDAPCD Rule 51 (Nuisance) prohibits emissions from any source whatsoever in such quantities of air contaminants or other material, which cause injury, detriment, nuisance, or annoyance to the public health or damage to property. The provisions of these regulations do not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals. It is generally accepted that the considerable number of persons requirement in Rule 51 is normally satisfied when 10 different individuals/households have made separate complaints within 90 days. Odor complaints from

a “considerable” number of persons or businesses in the area would be considered to be a significant, adverse odor impact.

7 Analysis Methodology

Emissions from the proposed CPU include emissions during the construction phase and the longer-term emissions during the operational phase. Air quality impacts from proposed construction activities would mainly be from the combustion of diesel and gasoline construction equipment in both on-road and off-road trucks and equipment and dust from earth-moving activities (PM_{10} and $PM_{2.5}$). Construction emissions will be short-term and primarily occur within the boundaries of the CPA. Operational emissions will be primarily from the day-to-day operations of the new buildings and traffic flow post-construction. The increase in emissions from the proposed CPU over the existing emissions will be calculated and compared against the thresholds discussed to determine if the proposed CPU could result in a significant impact on air quality.

7.1 Construction Emissions

Construction-related activities are temporary, short-term sources of air emissions. Sources of construction-related air emissions include:

- Fugitive dust from grading activities;
- Construction equipment exhaust;
- Construction-related trips by workers, delivery trucks and material-hauling trucks; and
- Construction-related power consumption.

Air pollutants generated by the construction of projects within the CPA would vary depending upon the number of projects occurring simultaneously and the size of each individual project.

Construction criteria air pollutant emissions were modeled using the California Emissions Estimator Model (CalEEMod) Version 2016.3.2 software, a modeling platform recommended by the CARB and accepted by the SDAPCD. CalEEMod is created with city planning in mind and allows for a flexible approach and detailed interface into proposed projects. CalEEMod is supported with extensive manuals and documentation.

7.2 Operational Emissions

Operational emissions are long-term emissions and include mobile, area and stationary sources. Sources of operational emissions within the CPU area include but are not limited to:

- Traffic generated by employees, service providers, or residents in the CPU area;
- Area source emissions from the use of natural gas for heating, fireplaces and cooking;
- Stationary sources from biosciences, microbreweries and other light and heavy manufacturing; and
- Mobile sources from buses and trains utilized for public transit.

Operation criteria air pollutant emissions were modeled using the CalEEMod Version 2016.3.2 software.

7.3 Sensitive Receptors

The City of San Diego CEQA Significance Thresholds defines a sensitive receptor as a person in the population who is more particularly susceptible to health effects due to exposure to an air contaminant

than the population at large. Sensitive receptors (and the facilities that house them) in proximity to localized CO sources, TACs or odors are of particular concern.

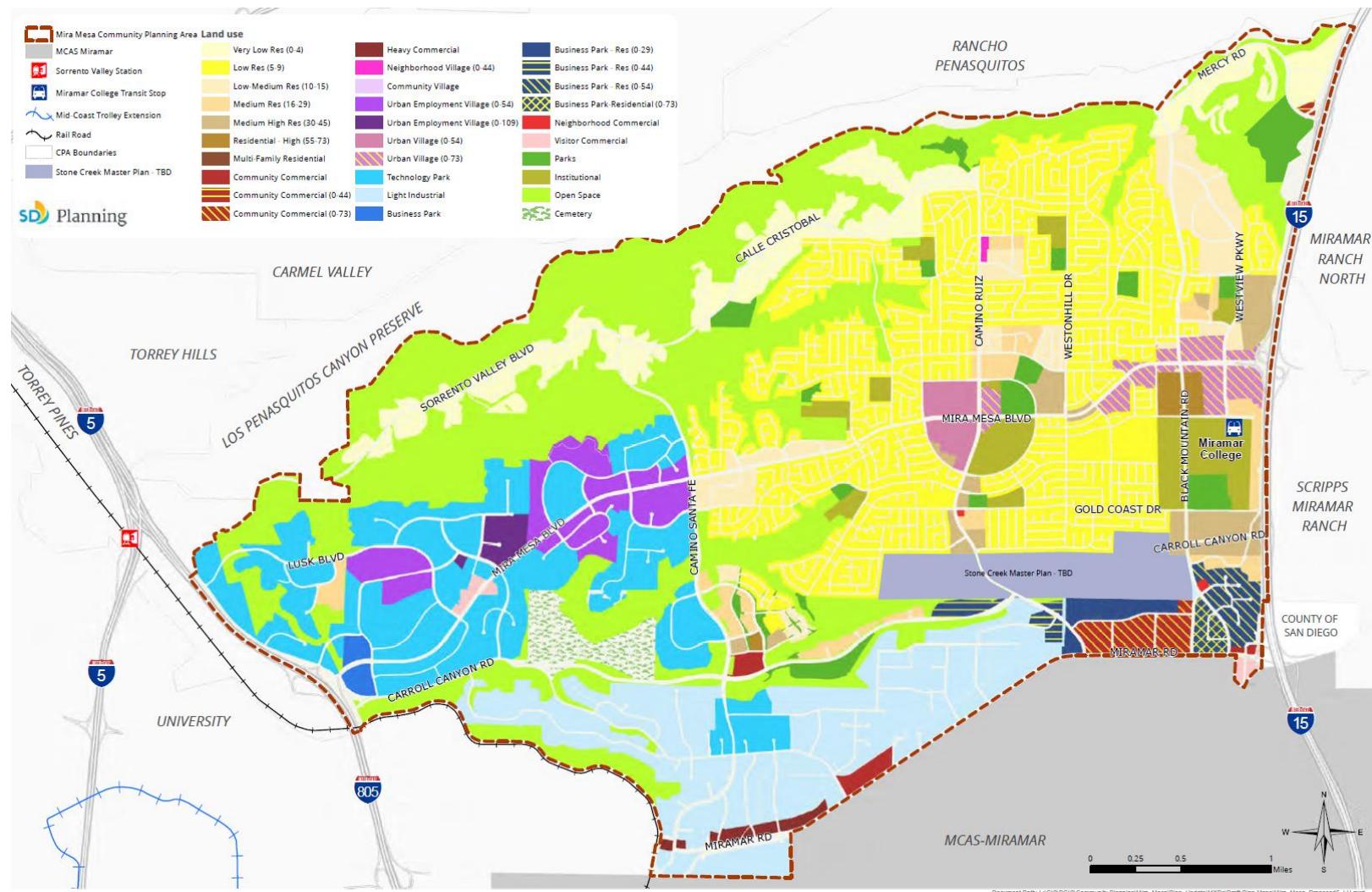
Localized CO hot spots, TACs such as DPM, and odors were analyzed at a program level to determine whether the proposed CPU is projected to exceed the accepted thresholds.

8 Project Impacts

This section evaluates potential direct air pollutant emissions of the implementation of the proposed CPU and the impact on air quality within the region from those potential emissions. The focus is on the effects of future development carried out in accordance with the proposed CPU both during construction as well as post build-out. The projected development captured within the proposed CPU is modeled and compared to several thresholds of significance for conformance with those thresholds. Section 6 documents the thresholds of significance.

Figure 6 below summarizes the proposed land use scenario as excerpted from a Community Discussion Draft Figures dated April 10, 2022 (City of San Diego 2022).

Figure 5 Planned Land Uses



*Note this figure is derived from the Mira Mesa Community Plan Update – Community Discussion Draft Figures dated 5/10/22 (City of San Diego 2022).



8.1 Conformance to the Regional Air Quality Strategy

SDAPCD develops and implements the RAQS which outlines plans and control measures designed to move the region towards attainment of CAAQS and NAAQS for ozone. The newest revision to this plan was completed by the SDAPCD in 2016. The SDAPCD also relies on the SIP to work toward reaching attainment. The SIP includes the SDAPCD plans and control measures and includes measures from other regions as well. The California Environmental Protection Agency and CARB regulate mobile sources, such as cars and trucks. SDAPCD considers the regulated emissions and reduction strategies related to mobile sources in the development of the RAQS and SIP.

These plans and strategies accommodate emissions from all sources including natural, stationary, and mobile sources. Emissions emanating from non-manmade sources such as blowing dust and wildfire smoke would be considered natural sources. Emissions generated fixed location are stationary sources, a smokestack at a factory is a classic example of a stationary source. Mobile sources are planes, trains, automobiles or other sources that can be moved and are not fixed to any specific location. The control measures indicated in the plans and strategies aim to reduce emissions where possible through combinations of engineering solutions and management practices. The control measures target stationary and mobile sources. The plans and strategies also include projected growth across all source emission types due to population and industry growth. The SDAPCD uses information from CARB and SANDAG to project the future emissions and determine the RAQS strategies necessary for the reduction of stationary emissions resulting from this projected growth to continue progress toward attainment of the CAAQS. The CARB mobile source emission projection and SANDAG growth projections are based on population and vehicle trends and land use plans developed by the cities and the County are the specific information used. Therefore, projects that propose development that is consistent with the growth anticipated by the applicable General Plan would be consistent with the RAQS because the general plans form the input to the RAQS.

The RAQS anticipates growth based on the currently adopted Community Plan; therefore, implementation of the proposed CPU could result in an inconsistency with the RAQS. Relative to the adopted Community Plan (City of San Diego 2020b), the proposed CPU would:

- Increase the number of residential units by making housing denser in areas where it was previously less dense or designated as commercial or industrial only;
- Increase the amount of land designated for retail/commercial/mixed use;
- Decrease mobile home parks, commercial only, industrial park only, extractive industry, and vacant lots to be replaced with open space, residential areas, and mixed-use urban and community village land use; and
- Increase transit and transit hubs.

The following describes the overall vision and guiding principles of the proposed CPU:

"Mira Mesa has successfully evolved into a desirable location for both living and working. The community is at a stable juncture to transition, where appropriate, into vibrant, walkable, amenity-rich villages and employment clusters that continue to facilitate an overall clean, safe, and healthy Mira Mesa for residents, workers, and visitors alike of all ages and abilities. The following guiding principles support this vision:

Land Use & Economic Prosperity

- Compact, mixed-use Urban Villages of different scales within a 15-minute walk, ride or roll for people living and working in Mira Mesa.
- Diverse housing types for variety of incomes and ages located near transit, jobs, and amenities.
- Land use and infrastructure investments that promote more start-ups, craft businesses, and knowledge-based jobs, while preserving industrial land for manufacturing, logistics, and warehousing.

Mobility

- A transportation network ensures safe, accessible, and efficient travel with a convenient, frequent, and user-friendly public transit network.
- Comfortable neighborhoods for people walking and biking with safe access to schools, parks, jobs, services and amenities.

Urban Design

- Public plazas, pathways, and walkable streetscape that enhance neighborhood identity.
- Places and experiences that attract and retain employees at the Mira Mesa's longstanding employment centers
- Shaded, comfortable streets and public spaces with trees and amenities for pedestrians, bicyclists, and other users of all ages and abilities.

Public Facilities, Parks, Recreation, and Open Space

- Investment in new public facilities to meet community needs.
- Parks, trails and open spaces are easily accessible to residents through the community.
- Restoration of creeks and protection of sensitive habitats, canyons, and open space network.

Climate Action and Sustainability

- A resilient carbon-neutral community powered by 100 percent renewable energy and a zero-emission transportation system.
- A clean, green, circular economy with businesses operating without the use of fossil fuels, toxic chemicals, and hazardous materials. “

Of these principles, the Land Use element guides the future planning for the proposed CPU and its vision incorporates the Mobility, Urban Design, Public Facilities, Parks, Recreation, and Open Spaces, and Climate Action and Sustainability. The Land Uses element would implement the General Plan's "City of Villages" strategy by proposing Urban Villages and a Community Plan Implementation Overlay Zones (CPIOZ) that focuses on mixed use development with enhanced pedestrian access that is linked to the regional transportation system.

The emphasis on Urban Village developments with public transit as opposed to lower density housing would reduce vehicle trips associated with residents. Additionally, the reduction of single and low-density housing would reduce emissions from landscaping and individual home heating and cooling. The proposed CPU also includes improvements to pedestrian paths areas, bicycle paths, regional transportation corridors, enhanced vehicular networks, and street reclassifications. Therefore, while the land uses under the proposed CPU were not included in the emissions assumptions contained within the RAQS, the proposed CPU aims to reduce vehicle use and associated emissions by improving the jobs

to houses balance within the community and develop compact, walkable, Urban Village communities close to transit connections and consistent with smart growth principles.

However, because the proposed CPU would result in greater density, future emissions associated with build-out of the CPU would be greater than future emissions associated with build-out of the adopted Community Plan land uses. Therefore, emissions of ozone precursors (VOC and NOx) would be greater than what is accounted for in the RAQs and impacts would be significant.

8.2 Conformance to Federal and State Ambient Air Quality Standards and Thresholds

Future development proposed in the CPU would generate criteria pollutants in both the short-term, during construction, and long-term, during operation. At the project level, to determine if a specific project would result in emissions that would contribute substantially to an existing or projected air quality violation, the project-level emissions are evaluated based on quantitative emissions thresholds of significance as shown in Table 4.

Construction activities associated with new or changing land uses in the proposed CPU would result in fugitive dust from demolition and site grading activities, pollutant emissions from heavy construction equipment exhaust, and vehicle trips associated with the construction such as hauling and worker commutes. The exact timing and execution of the individual projects is not known, and project level emissions cannot be determined at the program level. However, the overall changes in land usage are modeled for a planning-level programmatic view of potential emissions from various projects over the horizon of build out from approximately 2030 to 2050.

Operational source emissions would be the result of facility operations and traffic generated from future development pursuant to the proposed CPU. Some of these operational emissions are known as “area emissions” from the use of building heating units, lawn equipment, fireplace use, and consumer product use. Area emissions are from various small sources that can add up to significant emissions. Also included in the operational emissions are those associated with operating known significant industries such as paint shops, power plants, etc. Specific details on individual projects are not known at this time, therefore, operational emissions would be modeled from a program-level view for the anticipated land uses. The planning window for the CPU has a horizon date of 2050.

Analyses to compare the estimated program-level construction and operational emissions include the use of CalEEMod modeling program. CalEEMod is further discussed in Section 7. CalEEMod requires the model to set some parameters as follows:

- The location is set to San Diego County with an urban setting.
- Climate Zone 13.
- Utility service by San Diego Gas and Electric.
- Construction from 2030 to 2050.
- Operational year start in 2050.
- Land uses approximated to the closest land usage for the CPU. The number of units are estimated based on the acreage as shown in Table 5.

For impact analysis purposes, analysts modeled only air emissions for the change in land usage from the baseline. Land usage changes modeled are presented in Table 5.

Table 5 Existing and Future Land Uses Mira Mesa CPU, in Acres Assumed for CalEEMod Model Run

Land Use	Existing	Existing to Remain	Proposed New Development	Total
Single Family Home	2,009	2,009	220	2,229
Multi-Family Home	692	692	33	725
Mobile Home Park	35	-	-35	
Commercial	434	182	-252	182
Office/Research & Development/Technology Park	654	654	255	909
Industrial Park/Light Industrial	1,407	1,092	-315	1,092
Extractive Industry	599	599	-599	
Parks, Recreational and Public Facilities	644	644	75	719
Open Space	2,414	2,414	100	2,514
Cemetery	213	213	0	213
Vacant/Undeveloped/Parking Lot	135	135	-135	
Trans/Comm/Utilities	108	108	20	128
Urban Employment Village (Mixed-Use)		-	262	262
Urban Village (Mixed-Use)		-	188	188
Community Village (Mixed-Use)		-	35	35
Neighborhood Village (Mixed-Use)		-	3	3

Source: Interpolated from City of San Diego 2022 and City of San Diego 2020b

The quantities listed in Table 5 also include the existing developed land uses that were assumed to remain and not be redeveloped as part of the proposed CPU, except for those land uses with a negative number for proposed redevelopment. Those land uses with proposed redevelopment were included in the CalEEMod as estimates of buildings to be demolished to make way for redevelopment. Open land was not included in the demolition estimates.

Therefore, the air quality emission estimates used for impact analyses includes only changes to the land development. Both construction of the types of facilities associated with each land usage and operation of those facilities are included in the model. The model only uses general assumptions about construction and would not reflect special architectural features or emissions reducing features such as modular construction offsite where the walls are built in a factory and assembled onsite or individual sustainable materials usage and design by individual developers. Therefore, the model only provides program-level estimates, individual project level emissions will vary.

CalEEMod estimates vehicle emissions by first providing defaults for trip rates, trip length, trip purpose and trip type percentages (i.e., home to work, home to retail, etc.) for each land type that was entered. CalEEMod also provides a default fleet mixture based on historical data. As California increases usage of electric vehicles, direct emission from daily use of vehicles will go down. Vehicle emissions are part of both the construction and operational phase.

Construction

The CalEEMod modeling for construction emissions evaluated the list of land use changes as one whole project that would take 20 years to complete in order to estimate total emissions from completion of all

of the build-outs within the 20 years. Each year was added up to get a total for the entire build-out, which was then divided by 220 working days per year to arrive at an average pounds per day for the completion of the build-out overall. This conservative program level estimate assumes worst case scenario as emissions per day would greatly vary based on specific-project schedules, with some days being higher than the average and some days being much lower. Also, the construction emissions were calculated using 2016 CalEEMod modeling data and assumptions, such as default equipment metrics, and did not include any emissions mitigations with the equipment, such as using newer, cleaner engines exclusively, switching all small equipment to battery-powered equipment, and other general air quality best management practices for reducing emissions at work sites.

Table 6 shows the estimated unmitigated emissions average daily emission rate compared to thresholds of significance (see Section 6). This rate was calculated based on the CalEEMod output shown in Appendix A.

Table 6 Estimated Average Daily Construction Emissions (pounds per day)						
Source	VOC	NOx	CO	SO ₂	PM ₁₀	PM _{2.5}
Average Daily Construction Emissions for Build-out	283	264	263	2	161	43
Threshold for Significant Impact	137	250	550	250	100	55
Average Daily Construction Emissions Exceed Threshold?	Yes	Yes	No	No	Yes	No

Notes: See Appendix A for more details on assumptions.

The average day is based on 220 days of construction per year. The total tons for the entire build-out were divided by 20 years, 220 days per year, and 2000 lbs per ton to get to the average emissions in lbs per day. The average daily emissions would occur during workdays from 2030 to 2050.

VOC = Volatile Organic Compounds; NOx = Nitrogen Oxides; CO = Carbon Monoxide; SO₂ = Sulfur Dioxide; PM₁₀ = Particulate Matter 10 micrometers or less in diameter; PM_{2.5} = Particulate Matter 2.5 micrometers or less in diameter

While the impact on air quality using the conservative program level estimate during construction is considered significant based on Table 6, it may be reduced as project-level mitigation is considered. The pollutants exceeding the impact threshold are VOCs, NOx, and PM₁₀. The VOC is primarily from the construction phases of parking lot and road construction and application of architectural coatings. If coating usage is reduced, these average daily emissions would be reduced. Additionally, PM₁₀ is often from unmitigated dust control. Implementing dust control onsite at the project-level would likely reduce this below the threshold. NOx is primarily from the use of diesel-powered heavy construction equipment. Standard air quality best management practices could be utilized to reduce NOx emissions below the thresholds. However, the analysis for this document does not look at project specific impacts or mitigations because they are unknown at this time, but is rather a program-level evaluation. Any potential impacts will be short-term only during construction at the project-level. At the time of development for individual projects, additional project-level mitigation measures could be undertaken to improve reduction of air quality emissions during construction. However, at the program level, using a conservative worst case scenario potential construction emission impacts would be potentially significant.

Operational

Operational emissions include area emissions, energy emissions, and mobile emissions. These emissions occur annually and are compared to annual thresholds to determine the impact from the operation of all of the additional facilities and features of the proposed CPU as they would begin in 2050. Table 7 documents the estimated annual operational emissions, including the selected mitigations as detailed below, versus the thresholds of significance (see Section 6).

Table 7 Estimated Annual Operational Emissions (tons per year)						
Source	VOC	NOx	CO	SO ₂	PM ₁₀	PM _{2.5}
Area	217	6	97	0.04	0.9	0.9
Energy	4	40	31	0.2	3	3
Mobile (Vehicles)	41	235	536	3	318	86
Total	263	281	664	2.9	322	89
Threshold for Significant Impact	15	40	100	40	15	10
Average Daily Operational Emissions Exceed Threshold?	Yes	Yes	Yes	No	Yes	Yes

Notes: See Appendix A for more details on assumptions.

The mitigated operational emission estimated are shown.

VOC = Volatile Organic Compounds; NOx = Nitrogen Oxides; CO = Carbon Monoxide; SO₂ = Sulfur Dioxide; PM₁₀ = Particulate Matter 10 micrometers or less in diameter; PM_{2.5} = Particulate Matter 2.5 micrometers or less in diameter

Operational emissions estimated for the build-out of the CPU exceed significant impact thresholds. The pollutants exceeding the impact threshold are VOC, NOx, CO, and PM₁₀ and PM_{2.5}. Further mitigation for individual projects, such as reducing usage of architectural paints and coatings, installing landscaping that does not need motorized maintenance, and further reducing the car usage within the Mira Mesa CPA when executing the actual projects would reduce the impacts.

When estimating the area sources for the proposed build-out, the default CalEEMod settings for land usage type were kept except for wood-burning stoves and fireplaces were estimated to be none installed in any of the new homes or mixed-use properties. Other area emissions such as landscaping equipment were estimated to be 50 percent electric for future uses due to the readily available consumer equipment. Estimates for upkeep of architectural paints and coating was kept at the default of 250 grams of VOC per gallon.

When estimating the energy usage emissions for the proposed build-out, the default CalEEMod settings for the land usage type were kept. CalEEMod estimates emissions from energy use by multiplying average rates of residential and non-residential energy consumption by the quantities of residential units and non-residential square footage entered into the land use module to obtain total projected energy use. This value was then multiplied by the natural gas air pollutant emission factors applicable to the project location and utility provider. The values and calculations used by CalEEMod reflect the 2013 Title 24 Building Energy Efficiency Standards for reduction in energy usage. CalEEMod is not updated to the newest 2022 or 2025 Title 24 Building Energy Efficiency Standards. Therefore, actual emissions would be possibly lower based on more strict energy efficiency standards in place during the construction.

Mobile sources are from vehicle usage within Mira Mesa CPA by residents, workers, and visitors. The mix of vehicles and vehicle miles traveled used in estimating annual operational emissions for the proposed CPU used the CalEEMod default fleet mix of small and larger vehicles, mostly gasoline. The proposed CPU has guiding principles to increase comfortable walking neighborhoods and improved public transit that would likely reduce the emissions from the modeled numbers. However, the emissions associated with the proposed CPU would likely still contribute to exceedance of the significance thresholds because the proposed CPU would not eliminate all vehicle usage, especially for delivery and services.

The federal, state, and local levels provide a regulatory framework for developing project-level air quality protection measures for future projects. At the local level, the City has an environmental review process for evaluating projects and providing documentation pursuant to CEQA. In particular, discretionary projects would require CEQA analysis while ministerial projects would not be subject to further CEQA review. For future discretionary projects within the CPA that may result from the proposed CPU it is possible that adhering to the regulations may not sufficiently reduce air pollutant emissions, and such projects may require additional measures to avoid or reduce air quality impacts. As operational emissions associated with the build-out of the proposed CPU would exceed annual operational significance thresholds and assumptions used to develop the 2016 RAQs (see Section 8.1), and because there could be certain future projects that would not be able to reduce emissions below the thresholds, this impact would be potentially significant.

8.3 Impacts to Sensitive Receptors

Impacts to sensitive receptors are typically analyzed by evaluating CO hot spots and exposure to TACs, including DPM.

The City of San Diego CEQA Significance Thresholds defines a sensitive receptor as a person in the population who is more particularly susceptible to health effects due to exposure to an air contaminant than the population at large. Sensitive receptors (and the facilities that house them) in proximity to localized CO sources, TACs or odors are of particular concern. Analysis must factor in sensitive receptors in locations such as day care centers, schools, retirement homes, and hospitals or medical patients in residential homes close to major roadways or stationary sources, which could be affected by air pollutants (City of San Diego 2020a).

8.3.1 Localized Carbon Monoxide Hot Spots

A carbon monoxide (CO) hot spot is an area of localized CO pollution caused by severe vehicle congestion on major roadways, typically near intersections during busy travel times. Localized CO hot spots could potentially violate federal and state CO standards at intersections, even if the broader basin is in attainment for federal and state levels. San Diego Air Basin (SDAB) is currently a maintenance area for CO, so exhaust emissions could potentially cause a direct, localized hot spot impact at or near proposed development. SDAB was previously a nonattainment area and is currently implementing a 10-year plan for continuing to meet and maintain air quality standards therefore SDAB is currently classified as a maintenance area. Due to increased state requirements for cleaner vehicles, equipment, and fuels, CO levels in the state have dropped substantially and all air basins within the state are attainment or maintenance areas for CO.

Increased CO concentrations typically are associated with congested roadways with heavy traffic volumes. Therefore, if implementation of a specific project increases the average delay at an intersection that is already congested to be more congested, this could cause an impact to localized air quality. To determine this potential impact, many agencies have established preliminary screening criteria to determine whether project-generated, long-term operational local mobile-source emissions of CO would result in, or substantially contribute to, emissions concentrations that exceed the State's 1-hour ambient air quality standard of 20 parts per million (ppm) or the 8-hour standard of 9.0 ppm.

The Sacramento Metropolitan Air Quality Management District (SMAQMD) developed a screening threshold in 2011, which states that any project involving an intersection experiencing 31,600 vehicles per hour or more will require a detailed analysis. Also, in 2010 the Bay Area Air Quality Management District (BAAQMD) developed a screening threshold, which states that any project involving an intersection experiencing 44,000 vehicles per hour would require detailed analysis. However, this analysis for Mira Mesa CPA conservatively assesses potential CO hot spots using the lower SMAQMD screening threshold of 31,600 vehicles per hour. Since Sacramento and San Diego have the same federal and state CO attainment designations and experience similar CO concentrations, the SMAQMD screening volumes are appropriate for evaluating CO impacts in the SDAB. This screening volume has also been utilized by the South Coast Air Quality Management District (SCAQMD), which also has the same CO designation as Sacramento and San Diego.

The conservative analysis of CO hot spots is based on the *Mira Mesa Community Plan Update Transportation Impact Study* prepared by Kimley Horn. The impact study identifies peak hour turning volumes for the intersections within the CPU area and were compared to the SMAQMD screening threshold of 31,600 vehicles per hour. The intersection with the greatest peak hour volume is Westview Parkway at Mira Mesa Boulevard which has an AM peak hour volume of 8,010 vehicles. Peak hour traffic volume at all intersections would be less than 31,600 vehicles per hour and thus, would not exceed the screening threshold.

Additionally, under the proposed project the number of existing intersections decreases and a plan to improve traffic flow and mobility is part of the Mira Mesa CPU guiding principles. Improved housing to job ratio and public transportation should continue the state trend of lowered CO levels at intersections because there would be less need to commute into and out of the Mira Mesa CPA by use of personal vehicle.

8.3.2 Toxic Air Contaminants and Diesel Particulate Matter Construction

Construction of future projects and infrastructure implemented under the proposed CPU would result in increased short-term diesel exhaust emissions from on-site heavy-duty construction equipment used during construction and demolition. The diesel exhaust is a source of DPM, a TAC.

Construction emissions were estimated as part of this analysis and were compared to the thresholds listed in Table 4 (i.e. 100 pounds per day of PM₁₀ or 55 pounds per day of PM_{2.5}) to determine if the proposed CPU would result in impacts associated with DPM. As shown in Table 8, the modeling of the build-out indicates that average daily emissions of PM₁₀ may exceed the thresholds in an unmitigated construction scenario, but PM_{2.5} would likely be below the threshold for an average day during construction. The exceedance of the PM₁₀ threshold could be mitigated with dust control activities

during demolition and site grading. This mitigation strategy is not reflected in the CalEEMod results but would be required by SDAPCD Rule 55.

DPM generated by construction activities would be intermittent and dispersed throughout the CPU area at various locations. Therefore, DPM generated by construction is not expected to create conditions where the probability of developing cancer for a receptor exceeds 10 in 1 million or create an environment where the TACs exceed a Hazard Index of 1 for a receptor. This is due both to the nature of the construction projects dispersed over time and space as well as increased improvements in cleaner fuels, emissions limits on engines, retrofits or retirement of old equipment and new low-emission diesel engines that will likely be in use in 2030. Thus, it is anticipated that impacts related to the exposure of sensitive receptors to TAC during construction would be less than significant.

Stationary Sources

The proposed CPU includes land uses that may generate TAC affecting adjacent sensitive land uses. Stationary sources include gas stations, dry cleaners using traditional methods, manufacturing, sign making, and food production facilities. The SDAPCD regulates stationary sources and requires permits to construct and operate many types and sizes of equipment.

The SDAPCD regulations and permit process identify and control TACs from stationary sources. The Air Toxics Hot Spots Information and Assessment Act (AB 2588, Connely 1987) requires facilities to issue public notification if emissions exceed prescribed public notification limits. If the facility poses a potentially significant public health risk, the facility must submit a risk reduction audit and plan to demonstrate how the facility would reduce health risks. With this regulatory framework, at the program level, impacts associated with stationary sources in the CPU would be less than significant. To further reduce potential impact on sensitive receptors, the land use siting recommendations from CARB, as shown in Table 8, should be utilized.

Mobile Sources

Mira Mesa CPA contains several areas where new residential and other sensitive receptors could be placed within 500 feet of two major highways (I-805 and I-15) and near high-traffic roads with more than 100,000 vehicles per day. As identified in Table 8, individual development projects could be located within the siting distances recommended by CARB, however these recommendations are advisory and should not be utilized as defined “buffer zones”. CARB acknowledges that local agencies must balance other considerations such as transportation needs, the urban infill benefits, community economic development priorities, and other quality-of-life concerns. With careful evaluation of exposure, health risks, and affirmative steps to reduce risk, where necessary, CARB’s position is that infill development, mixed-use, higher density, transit-oriented development, and other concepts that benefit regional air quality can be compatible with protecting the health of individuals at the neighborhood level. Additionally, measures can be incorporated into future project design that would reduce the level of exposure for future residents. CAPCOA published a guidance document, Health Risk Assessments for Proposed Land Use Projects, which provides recommended measures that reduce concentrations of DPM (CAPCOA, 2009). These include planting vegetation between the receptor and the freeway, constructing barriers between the receptor and the freeway, and installing newer electrostatic filters in adjacent receptor buildings.



Consistent with the goals of CARB's handbook, the proposed CPU's policies and Supplemental Design Regulations support infill, mixed-use, higher density, and transit-oriented development that would benefit regional air quality. Proposed CPU policy 1.8 calls for development to consider air quality and air pollution sources in the siting, design, and construction of residential units and other uses with sensitive receptors. Additionally, the proposed CPU encourages building design features that minimize the effects of air pollution for residential and other sensitive-receptors land uses located within 500 feet of a freeway. These building features include ventilation systems with HEPA filters, locating HVAC intake vents away from pollution sources, and fixed windows facing freeways (see Chapter 4 Section D, Safety, of the proposed CPU). By promoting this type of development and ensuring site planning and building design minimizes exposure of sensitive receptors to mobile source emissions, implementation of the proposed CPU would be consistent with the goals of CARB and would not expose sensitive receptors to substantial pollutant concentrations. Impacts related to the exposure of sensitive receptors to mobile source emissions would be less than significant.

Table 8 CARB Land Use Siting Recommendations	
Source Category	Recommended Buffer Distance (feet)
Freeways and high-traffic roads (freeways, urban roads with 100,000 vehicles per day)	500
Distribution centers (that accommodate more than 100 trucks per day, more than 40 trucks with operating transport refrigeration units per day, or where transport refrigeration unit operations exceed 300 hours per week)	1,000
Chrome platers	1,000
Dry cleaners using perchloroethylene (1 machine, 2 machine, 3 or more)	300, 500, requires consultation with SDAPCD
Large gas stations (3.6 million gallons per year or more)	300
Other gas stations	50

Source: CARB 2005.

8.4 Odor Impacts

Emissions from construction equipment, such as diesel exhaust, and VOCs from architectural coatings and paving activities generate odors; however, these odors would be temporary, intermittent, and are not expected to affect a substantial number of people. Also, noxious odors are confined to the immediate vicinity of construction equipment. Lastly, short-term construction-related odors, such as architectural coatings, are expected to cease upon the drying or hardening of the odor-producing materials. Therefore, impacts associated with construction-generated odors would be less than significant.

Common facilities that may generate objectionable odors during operation include wastewater treatments plants, landfills, and painting/coating operations (e.g., auto body shops), among others. The CPU proposes multi-family residential, commercial/retail, office, institutional, industrial, park, and open space land uses. There are no proposed land uses within the CPU that would generate substantial odors adjacent to sensitive receptors. While specific project-level developments within the CPU area are not known nor analyzed at this program level of analysis, the proposed planned land uses would not



encourage nor support uses that would be associated with significant odor generation. Odors associated with restaurants or other commercial uses would be similar to existing residential and food service uses throughout the CPA. Additionally, future potential developments, such as autobody shops, would be required to comply with SDAPCD Rule 51 (Public Nuisance), which prohibits the discharge of air contaminants or other materials that would be a nuisance or annoyance to the public. Odor generation is generally confined to the immediate vicinity of the source and any proposed land uses that would generate odor would not be located in the vicinity of sensitive receptors. Thus, implementation of the proposed CPU would not create operational-related objectionable odors affecting a substantial number of people within the City, and impacts related to objectionable odors would be less than significant.

9 Summary of Impacts and Recommended Measures

9.1 Conformance with Regional Air Quality Plans

The proposed CPU's emphasis on an Urban Village developments perspective with public transit as opposed to lower-density housing would reduce pollutant emissions associated with vehicle trips. Additionally, the reduction of single-family and low-density housing would reduce emissions from landscaping and individual home heating and cooling. The proposed CPU also includes improvements to pedestrian paths areas, bicycle paths, regional transportation corridors, enhanced vehicular networks, and street reclassifications. Therefore, while the proposed CPU land uses were not included in the emissions assumptions contained within the 2016 RAQS, the proposed CPU aims to reduce vehicle use and associated emissions by improving the jobs to houses balance within the community and develop compact, walkable, Urban Village communities close to transit connections and consistent with smart growth principles.

While the proposed CPU would result in growth within the CPA exceeding projections incorporated into the 2016 RAQs, future emissions associated with build-out of the CPA would be greater than future emissions associated with build-out of the adopted Community Plan. Therefore, emissions of ozone precursors (volatile organic compound [VOC] and nitrogen oxide [NOx]) (for which the San Diego Air Basin [SDAB] is currently in nonattainment) would be greater than what is accounted for in the RAQs and impacts would be significant.

9.2 Conformance to Federal and State Ambient Air Quality Standards and Thresholds

Overall, for construction and operation of the change in land uses for Mira Mesa CPA, adherence to regulations may not adequately protect air quality if the construction of various potential specific projects happens simultaneously and specific project level mitigation efforts are not made for operational emissions. Based on modeled calculations, which assumes the proposed CPU is one whole project, the construction and operation of the proposed CPU may result in significant impacts. For certain discretionary projects, additional measures to avoid or reduce significant air quality impacts may be necessary. Because operational emissions associated with the build-out of the proposed CPU would be greater for certain pollutants when compared to the thresholds as discussed in Section 6, this impact may be significant .

Specific project level mitigation measures to reduce construction and operational emissions for each project should be considered. This includes measures such as:

- Use of extremely low VOC paints for all surface coatings.
- Use of renewable energy and electric heating for residential units.
- Maximize use of electric or battery-operated equipment for landscaping.
- Control the number of personal vehicles in use, which is a major goal of the CPU, but should be enforceable during the operational phases.
- Encourage use of electric delivery vehicles.
- Increase the use of public and nonmotorized transport during and after construction, including by construction workers.
- Have site specific/project specific dust control plans.
- The construction contractors shall maintain and properly tune all construction equipment in accordance with manufacturer specifications.
- Strict enforcement of all construction equipment to USEPA Tier 4 emissions standards (the lowest standards).

Cumulatively, in order for projects being constructed simultaneously to exceed construction emissions thresholds, the projects would have to be larger scale and in close proximity to each other. While unlikely to occur based on the fact that the existing CPA is largely built out, future environmental review for these potential larger projects would allow for a site-specific analysis of construction-level air quality emissions to ensure projects are appropriately phased and timed to avoid such cumulative construction emissions. Thus, with implementation of the existing regulatory framework as discussed in Section 4.4, cumulative construction emissions would then likely be less than significant.

9.3 Impacts to Sensitive Receptors

9.3.1 Carbon Monoxide Hot Spots

Implementation of the proposed CPU would not result in a localized CO hotspot. Impacts would be less than significant.

9.3.2 Toxic Air Contaminants and Diesel Particulate Matter

Implementation of the proposed CPU would not expose sensitive receptors to elevated levels of TACs during construction or operation. Impacts would be less than significant.

9.4 Impacts to Odor

Potential construction-generated odors would be localized, temporary, intermittent, and are not expected to affect a substantial number of people. The proposed project would not introduce land uses that would generate substantial odors during operations. Therefore, impacts associated with odors would be less than significant.



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Appendix A CALEEMOD EMISSION MODEL RESULTS

Mira Mesa CPU - San Diego County, Annual

Mira Mesa CPU
San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	11,100.00	1000sqft	254.82	11,100,000.00	0
Apartments Mid Rise	1,250.00	Dwelling Unit	32.89	1,250,000.00	3575
Single Family Housing	680.00	Dwelling Unit	220.78	1,224,000.00	1945
City Park	75.00	Acre	75.00	3,267,000.00	0
City Park	100.00	Acre	100.00	4,356,000.00	0
Other Non-Asphalt Surfaces	20.00	Acre	20.00	871,200.00	0
Office Park	11,400.00	1000sqft	261.71	11,400,000.00	0
Condo/Townhouse High Rise	12,000.00	Dwelling Unit	187.50	12,000,000.00	34320
Regional Shopping Center	130.00	1000sqft	2.98	130,000.00	0
Condo/Townhouse	550.00	Dwelling Unit	34.38	550,000.00	1573
Office Park	6,000.00	1000sqft	137.74	6,000,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2050
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Mira Mesa CPU - San Diego County, Annual

Project Characteristics -

Land Use - The various mixed-use land uses are estimated with a close approximation from residential or retail, as CalEE does not have a mixed-use land type.

Construction Phase - Estimates. Actual construction for individual projects may vary.

Demolition - Estimated old facilities/buildings to be demo'd based on land use types being eliminated or replaced with more dense housing.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Based on City of San Diego Planning Department presentations.

Area Mitigation - Increase electric lawn equipment to 50% for new single family homes.

Woodstoves - Estimate woodstoves would not be allowed in any of the dense housing projects.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	10,000.00	783.00
tblConstructionPhase	NumDays	6,000.00	1,565.00
tblConstructionPhase	NumDays	15,500.00	106.00
tblConstructionPhase	NumDays	155,000.00	2,120.00
tblConstructionPhase	NumDays	11,000.00	303.00
tblConstructionPhase	NumDays	11,000.00	2,650.00
tblConstructionPhase	PhaseEndDate	4/30/2068	12/30/2032
tblConstructionPhase	PhaseEndDate	4/30/2091	12/30/2038
tblConstructionPhase	PhaseEndDate	9/28/2150	5/27/2039
tblConstructionPhase	PhaseEndDate	11/13/2744	7/12/2047
tblConstructionPhase	PhaseEndDate	1/12/2787	9/9/2048
tblConstructionPhase	PhaseEndDate	3/12/2829	11/7/2049
tblConstructionPhase	PhaseStartDate	5/1/2068	12/31/2032
tblConstructionPhase	PhaseStartDate	5/1/2091	12/31/2038
tblConstructionPhase	PhaseStartDate	9/29/2150	5/28/2039
tblConstructionPhase	PhaseStartDate	11/14/2744	7/13/2047

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tblConstructionPhase	PhaseStartDate	1/13/2787	9/10/2039
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberWood	437.50	0.00
tblFireplaces	NumberWood	238.00	0.00
tblFireplaces	NumberWood	192.50	0.00
tblFireplaces	NumberWood	4,200.00	0.00
tblGrading	AcresOfGrading	265.00	38,750.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	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					
2030	0.2789	1.3950	2.5500	6.7200e-003	0.2341	0.0461	0.2802	0.0410	0.0461	0.0871	0.0000	586.6373	586.6373	0.0276	0.0000	587.3279
2031	0.2786	1.3932	2.5489	6.7100e-003	0.2341	0.0461	0.2802	0.0410	0.0461	0.0871	0.0000	586.2231	586.2231	0.0276	0.0000	586.9137

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Year	tons/yr											MT/yr					
2032	0.2795	1.3984	2.5562	6.7300e-003	0.2432	0.0463	0.2895	0.0460	0.0463	0.0923	0.0000	587.9229	587.9229	0.0277	0.0000	588.6159	
2033	0.3214	1.7793	2.1465	6.1800e-003	2.3674	0.0568	2.4242	1.2960	0.0568	1.3528	0.0000	531.3430	531.3430	0.0259	0.0000	531.9898	
2034	0.3211	1.7792	2.1452	6.1800e-003	2.3674	0.0568	2.4242	1.2960	0.0568	1.3528	0.0000	531.1703	531.1703	0.0259	0.0000	531.8169	
2035	0.2841	1.3255	2.1108	6.2000e-003	2.3765	0.0381	2.4145	1.3010	0.0381	1.3390	0.0000	533.0669	533.0669	0.0226	0.0000	533.6309	
2036	0.2852	1.3306	2.1189	6.2200e-003	2.3856	0.0382	2.4238	1.3059	0.0382	1.3441	0.0000	535.1093	535.1093	0.0227	0.0000	535.6754	
2037	0.2841	1.3255	2.1108	6.2000e-003	2.3765	0.0381	2.4145	1.3010	0.0381	1.3390	0.0000	533.0669	533.0669	0.0226	0.0000	533.6309	
2038	0.2845	1.3253	2.1141	6.2100e-003	22.9177	0.0381	22.9557	3.5163	0.0381	3.5543	0.0000	534.3431	534.3431	0.0226	0.0000	534.9079	
2039	21.5585	42.6181	37.0283	0.2517	40.5061	0.1195	40.6256	7.7023	0.1133	7.8156	0.0000	24,010.69 60	24,010.69 60	1.1196	0.0000	24,038.68 66	
2040	62.3277	69.6126	58.2792	0.4249	35.3821	0.1551	35.5372	9.5540	0.1460	9.7000	0.0000	40,521.19 34	40,521.19 34	1.8282	0.0000	40,566.89 84	
2041	62.3277	69.6126	58.2792	0.4249	35.3821	0.1551	35.5372	9.5540	0.1460	9.7000	0.0000	40,521.19 34	40,521.19 34	1.8282	0.0000	40,566.89 84	
2042	62.3277	69.6126	58.2792	0.4249	35.3821	0.1551	35.5372	9.5540	0.1460	9.7000	0.0000	40,521.19 34	40,521.19 34	1.8282	0.0000	40,566.89 84	
2043	62.3277	69.6126	58.2792	0.4249	35.3821	0.1551	35.5372	9.5540	0.1460	9.7000	0.0000	40,521.19 34	40,521.19 34	1.8282	0.0000	40,566.89 84	
2044	62.3277	69.6126	58.2792	0.4249	35.3821	0.1551	35.5372	9.5540	0.1460	9.7000	0.0000	40,521.19 34	40,521.19 34	1.8282	0.0000	40,566.89 84	
2045	61.5872	68.7540	55.7318	0.4199	35.2467	0.1444	35.3911	9.5175	0.1361	9.6536	0.0000	40,048.55 96	40,048.55 96	1.7707	0.0000	40,092.82 58	
2046	61.8241	69.0184	55.9461	0.4215	35.3823	0.1449	35.5272	9.5541	0.1366	9.6907	0.0000	40,202.59 25	40,202.59 25	1.7775	0.0000	40,247.02 90	
2047	59.4162	37.2471	33.4491	0.2401	21.0922	0.0899	21.1821	5.6858	0.0851	5.7708	0.0000	22,814.77 24	22,814.77 24	0.9711	0.0000	22,839.04 93	
2048	56.8483	0.9041	7.2010	0.0323	4.8243	0.0227	4.8470	1.2820	0.0218	1.3037	0.0000	2,915.276 2	2,915.276 2	0.0492	0.0000	2,916.506 5	
2049	47.8737	0.4825	4.8561	0.0251	4.0602	0.0102	4.0704	1.0789	9.4500e-003	1.0884	0.0000	2,270.028 4	2,270.028 4	0.0353	0.0000	2,270.909 7	

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Maximum	62.3277	69.6126	58.2792	0.4249	40.5061	0.1551	40.6256	9.5541	0.1460	9.7000	0.0000	40,521.19 34	40,521.19 34	1.8282	0.0000	40,566.89 84
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2.1 Overall Construction**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2030	0.2789	1.3950	2.5500	6.7200e-003	0.2341	0.0461	0.2802	0.0410	0.0461	0.0871	0.0000	586.6367	586.6367	0.0276	0.0000	587.3273
2031	0.2786	1.3932	2.5489	6.7100e-003	0.2341	0.0461	0.2802	0.0410	0.0461	0.0871	0.0000	586.2225	586.2225	0.0276	0.0000	586.9130
2032	0.2795	1.3984	2.5562	6.7300e-003	0.2432	0.0463	0.2895	0.0460	0.0463	0.0923	0.0000	587.9223	587.9223	0.0277	0.0000	588.6153
2033	0.3214	1.7793	2.1465	6.1800e-003	2.3674	0.0568	2.4242	1.2960	0.0568	1.3528	0.0000	531.3424	531.3424	0.0259	0.0000	531.9892
2034	0.3211	1.7792	2.1452	6.1800e-003	2.3674	0.0568	2.4242	1.2960	0.0568	1.3528	0.0000	531.1697	531.1697	0.0259	0.0000	531.8163
2035	0.2841	1.3255	2.1108	6.2000e-003	2.3765	0.0381	2.4145	1.3010	0.0381	1.3390	0.0000	533.0662	533.0662	0.0226	0.0000	533.6303
2036	0.2852	1.3306	2.1189	6.2200e-003	2.3856	0.0382	2.4238	1.3059	0.0382	1.3441	0.0000	535.1086	535.1086	0.0227	0.0000	535.6748
2037	0.2841	1.3255	2.1108	6.2000e-003	2.3765	0.0381	2.4145	1.3010	0.0381	1.3390	0.0000	533.0662	533.0662	0.0226	0.0000	533.6303
2038	0.2845	1.3253	2.1141	6.2100e-003	22.9177	0.0381	22.9557	3.5163	0.0381	3.5543	0.0000	534.3425	534.3425	0.0226	0.0000	534.9073
2039	21.5585	42.6181	37.0283	0.2517	40.5061	0.1195	40.6256	7.7023	0.1133	7.8156	0.0000	24,010.69 53	24,010.69 53	1.1196	0.0000	24,038.68 59
2040	62.3277	69.6126	58.2792	0.4249	35.3821	0.1551	35.5372	9.5540	0.1460	9.7000	0.0000	40,521.19 29	40,521.19 29	1.8282	0.0000	40,566.89 79
2041	62.3277	69.6126	58.2792	0.4249	35.3821	0.1551	35.5372	9.5540	0.1460	9.7000	0.0000	40,521.19 29	40,521.19 29	1.8282	0.0000	40,566.89 79
2042	62.3277	69.6126	58.2792	0.4249	35.3821	0.1551	35.5372	9.5540	0.1460	9.7000	0.0000	40,521.19 29	40,521.19 29	1.8282	0.0000	40,566.89 79

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Year	tons/yr											MT/yr					
2043	62.3277	69.6126	58.2792	0.4249	35.3821	0.1551	35.5372	9.5540	0.1460	9.7000	0.0000	40,521.19 29	40,521.19 29	1.8282	0.0000	40,566.89 79	
2044	62.3277	69.6126	58.2792	0.4249	35.3821	0.1551	35.5372	9.5540	0.1460	9.7000	0.0000	40,521.19 29	40,521.19 29	1.8282	0.0000	40,566.89 79	
2045	61.5872	68.7540	55.7318	0.4199	35.2467	0.1444	35.3911	9.5175	0.1361	9.6536	0.0000	40,048.55 91	40,048.55 91	1.7707	0.0000	40,092.82 53	
2046	61.8241	69.0184	55.9461	0.4215	35.3823	0.1449	35.5272	9.5541	0.1366	9.6907	0.0000	40,202.59 20	40,202.59 20	1.7775	0.0000	40,247.02 85	
2047	59.4162	37.2471	33.4491	0.2401	21.0922	0.0899	21.1821	5.6858	0.0851	5.7708	0.0000	22,814.77 19	22,814.77 19	0.9711	0.0000	22,839.04 89	
2048	56.8483	0.9041	7.2010	0.0323	4.8243	0.0227	4.8470	1.2820	0.0218	1.3037	0.0000	2,915.275 9	2,915.275 9	0.0492	0.0000	2,916.506 2	
2049	47.8737	0.4825	4.8561	0.0251	4.0602	0.0102	4.0704	1.0789	9.4500e-003	1.0884	0.0000	2,270.028 4	2,270.028 4	0.0353	0.0000	2,270.909 6	
Maximum	62.3277	69.6126	58.2792	0.4249	40.5061	0.1551	40.6256	9.5541	0.1460	9.7000	0.0000	40,521.19 29	40,521.19 29	1.8282	0.0000	40,566.89 79	

	ROG	NOx	CO	SO2	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2030	3-31-2030	0.4122	0.4122
2	4-1-2030	6-30-2030	0.4164	0.4164
3	7-1-2030	9-30-2030	0.4210	0.4210
4	10-1-2030	12-31-2030	0.4213	0.4213
5	1-1-2031	3-31-2031	0.4116	0.4116
6	4-1-2031	6-30-2031	0.4159	0.4159
7	7-1-2031	9-30-2031	0.4205	0.4205
8	10-1-2031	12-31-2031	0.4208	0.4208

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9	1-1-2032	3-31-2032	0.4157	0.4157
10	4-1-2032	6-30-2032	0.4154	0.4154
11	7-1-2032	9-30-2032	0.4200	0.4200
12	10-1-2032	12-31-2032	0.4215	0.4215
13	1-1-2033	3-31-2033	0.5195	0.5195
14	4-1-2033	6-30-2033	0.5251	0.5251
15	7-1-2033	9-30-2033	0.5309	0.5309
16	10-1-2033	12-31-2033	0.5311	0.5311
17	1-1-2034	3-31-2034	0.5194	0.5194
18	4-1-2034	6-30-2034	0.5250	0.5250
19	7-1-2034	9-30-2034	0.5308	0.5308
20	10-1-2034	12-31-2034	0.5310	0.5310
21	1-1-2035	3-31-2035	0.3966	0.3966
22	4-1-2035	6-30-2035	0.4008	0.4008
23	7-1-2035	9-30-2035	0.4052	0.4052
24	10-1-2035	12-31-2035	0.4054	0.4054
25	1-1-2036	3-31-2036	0.4010	0.4010
26	4-1-2036	6-30-2036	0.4008	0.4008
27	7-1-2036	9-30-2036	0.4052	0.4052
28	10-1-2036	12-31-2036	0.4054	0.4054
29	1-1-2037	3-31-2037	0.3966	0.3966
30	4-1-2037	6-30-2037	0.4008	0.4008
31	7-1-2037	9-30-2037	0.4052	0.4052
32	10-1-2037	12-31-2037	0.4054	0.4054
33	1-1-2038	3-31-2038	0.3966	0.3966
34	4-1-2038	6-30-2038	0.4008	0.4008
35	7-1-2038	9-30-2038	0.4052	0.4052

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36	10-1-2038	12-31-2038	0.4055	0.4055
37	1-1-2039	3-31-2039	0.4038	0.4038
38	4-1-2039	6-30-2039	7.3790	7.3790
39	7-1-2039	9-30-2039	22.5754	22.5754
40	10-1-2039	12-31-2039	33.9968	33.9968
41	1-1-2040	3-31-2040	32.8779	32.8779
42	4-1-2040	6-30-2040	32.6780	32.6780
43	7-1-2040	9-30-2040	33.0371	33.0371
44	10-1-2040	12-31-2040	33.2392	33.2392
45	1-1-2041	3-31-2041	32.5166	32.5166
46	4-1-2041	6-30-2041	32.6780	32.6780
47	7-1-2041	9-30-2041	33.0371	33.0371
48	10-1-2041	12-31-2041	33.2392	33.2392
49	1-1-2042	3-31-2042	32.5166	32.5166
50	4-1-2042	6-30-2042	32.6780	32.6780
51	7-1-2042	9-30-2042	33.0371	33.0371
52	10-1-2042	12-31-2042	33.2392	33.2392
53	1-1-2043	3-31-2043	32.5166	32.5166
54	4-1-2043	6-30-2043	32.6780	32.6780
55	7-1-2043	9-30-2043	33.0371	33.0371
56	10-1-2043	12-31-2043	33.2392	33.2392
57	1-1-2044	3-31-2044	32.8779	32.8779
58	4-1-2044	6-30-2044	32.6780	32.6780
59	7-1-2044	9-30-2044	33.0371	33.0371
60	10-1-2044	12-31-2044	33.2392	33.2392
61	1-1-2045	3-31-2045	32.2347	32.2347
62	4-1-2045	6-30-2045	32.4090	32.4090

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63	7-1-2045	9-30-2045	32.7652	32.7652
64	10-1-2045	12-31-2045	32.9510	32.9510
65	1-1-2046	3-31-2046	32.2347	32.2347
66	4-1-2046	6-30-2046	32.4090	32.4090
67	7-1-2046	9-30-2046	32.7652	32.7652
68	10-1-2046	12-31-2046	32.9510	32.9510
69	1-1-2047	3-31-2047	32.2347	32.2347
70	4-1-2047	6-30-2047	32.4090	32.4090
71	7-1-2047	9-30-2047	16.8984	16.8984
72	10-1-2047	12-31-2047	14.5590	14.5590
73	1-1-2048	3-31-2048	14.4008	14.4008
74	4-1-2048	6-30-2048	14.3606	14.3606
75	7-1-2048	9-30-2048	14.4832	14.4832
76	10-1-2048	12-31-2048	14.4046	14.4046
77	1-1-2049	3-31-2049	14.0915	14.0915
78	4-1-2049	6-30-2049	14.2080	14.2080
79	7-1-2049	9-30-2049	14.3642	14.3642
		Highest	33.9968	33.9968

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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	231.1857	6.6544	109.6114	0.0403		1.0351	1.0351		1.0351	1.0351	0.0000	6,448.983 1	6,448.983 1	0.2887	0.1150	6,490,471 8	
Energy	4.3869	39.5212	30.8632	0.2393		3.0309	3.0309		3.0309	3.0309	0.0000	184,888.9 049	184,888.9 049	6.5265	1.9741	185,640.3 459	
Mobile	38.9928	224.7761	488.0713	2.3482	281.4501	0.8585	282.3086	75.3692	0.7995	76.1687	0.0000	219,787.4 784	219,787.4 784	10.3034	0.0000	220,045.0 641	
Waste						0.0000	0.0000		0.0000	0.0000	4,937.251 8	0.0000	4,937.251 8	291.7832	0.0000	12,231.83 22	
Water						0.0000	0.0000		0.0000	0.0000	3,014.999 8	50,260.75 78	53,275.75 76	311.6924	7.7305	63,371.76 29	
Total	274.5654	270.9516	628.5459	2.6278	281.4501	4.9245	286.3746	75.3692	4.8656	80.2347	7,952.251 6	461,386.1 242	469,338.3 758	620.5943	9.8196	487,779.4 769	

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Area	217.6800	6.5276	96.6978	0.0393		0.9591	0.9591		0.9591	0.9591	0.0000	6,422.498 9	6,422.498 9	0.2485	0.1150	6,462.982 0	
Energy	4.3869	39.5212	30.8632	0.2393		3.0309	3.0309		3.0309	3.0309	0.0000	184,888.9 049	184,888.9 049	6.5265	1.9741	185,640.3 459	
Mobile	41.5865	235.2973	536.5647	2.6228	317.1398	0.9545	318.0942	84.9264	0.8891	85.8155	0.0000	245,403.6 114	245,403.6 114	11.3686	0.0000	245,687.8 257	
Waste						0.0000	0.0000		0.0000	0.0000	4,937.251 8	0.0000	4,937.251 8	291.7832	0.0000	12,231.83 22	
Water						0.0000	0.0000		0.0000	0.0000	3,014.999 8	50,260.75 78	53,275.75 76	311.6924	7.7305	63,371.76 29	
Total	263.6535	281.3460	664.1257	2.9014	317.1398	4.9445	322.0843	84.9264	4.8791	89.8056	7,952.251 6	486,975.7 730	494,928.0 246	621.6192	9.8196	513,394.7 488	

	ROG	NOx	CO	SO2	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	3.97	-3.84	-5.66	-10.41	-12.68	-0.41	-12.47	-12.68	-0.28	-11.93	0.00	-5.55	-5.45	-0.17	0.00	-5.25

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2030	12/30/2032	5	783	Estimate
2	Site Preparation	Site Preparation	12/31/2032	12/30/2038	5	1565	Estimate
3	Grading	Grading	12/31/2038	5/27/2039	5	106	Estimate
4	Building Construction	Building Construction	5/28/2039	7/12/2047	5	2120	Estimate
5	Paving	Paving	7/13/2047	9/9/2048	5	303	Estimate
6	Architectural Coating	Architectural Coating	9/10/2039	11/7/2049	5	2650	Estimate

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 38750

Acres of Paving: 20

**Residential Indoor: 30,423,600; Residential Outdoor: 10,141,200; Non-Residential Indoor: 42,945,000; Non-Residential Outdoor: 14,315,000;
Striped Parking Area: 52,272 (Architectural Coating – sqft)**

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	5,003.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	22,910.00	7,633.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4,582.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 Demolition - 2030****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr											MT/yr				
Fugitive Dust					0.1827	0.0000	0.1827	0.0277	0.0000	0.0277	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2707	1.2759	2.4686	6.0300e-003	0.0458	0.0458		0.0458	0.0458	0.0000	518.3698	518.3698	0.0219	0.0000	518.9166	
Total	0.2707	1.2759	2.4686	6.0300e-003	0.1827	0.0458	0.2285	0.0277	0.0458	0.0735	0.0000	518.3698	518.3698	0.0219	0.0000	518.9166

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3.2 Demolition - 2030**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	3.8500e-003	0.1167	0.0537	5.7000e-004	0.0357	2.1000e-004	0.0359	9.1800e-003	2.1000e-004	9.3900e-003	0.0000	58.2421	58.2421	5.5500e-003	0.0000	58.3809	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.2900e-003	2.4400e-003	0.0277	1.1000e-004	0.0157	8.0000e-005	0.0158	4.1700e-003	7.0000e-005	4.2400e-003	0.0000	10.0254	10.0254	2.0000e-004	0.0000	10.0305	
Total	8.1400e-003	0.1191	0.0813	6.8000e-004	0.0514	2.9000e-004	0.0517	0.0134	2.8000e-004	0.0136	0.0000	68.2674	68.2674	5.7500e-003	0.0000	68.4113	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1827	0.0000	0.1827	0.0277	0.0000	0.0277	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.2707	1.2759	2.4686	6.0300e-003		0.0458	0.0458		0.0458	0.0458	0.0000	518.3692	518.3692	0.0219	0.0000	518.9160	
Total	0.2707	1.2759	2.4686	6.0300e-003	0.1827	0.0458	0.2285	0.0277	0.0458	0.0735	0.0000	518.3692	518.3692	0.0219	0.0000	518.9160	

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3.2 Demolition - 2030**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	3.8500e-003	0.1167	0.0537	5.7000e-004	0.0357	2.1000e-004	0.0359	9.1800e-003	2.1000e-004	9.3900e-003	0.0000	58.2421	58.2421	5.5500e-003	0.0000	58.3809	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.2900e-003	2.4400e-003	0.0277	1.1000e-004	0.0157	8.0000e-005	0.0158	4.1700e-003	7.0000e-005	4.2400e-003	0.0000	10.0254	10.0254	2.0000e-004	0.0000	10.0305	
Total	8.1400e-003	0.1191	0.0813	6.8000e-004	0.0514	2.9000e-004	0.0517	0.0134	2.8000e-004	0.0136	0.0000	68.2674	68.2674	5.7500e-003	0.0000	68.4113	

3.2 Demolition - 2031**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1827	0.0000	0.1827	0.0277	0.0000	0.0277	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2707	1.2759	2.4686	6.0300e-003		0.0458	0.0458		0.0458	0.0458	0.0000	518.3698	518.3698	0.0219	0.0000	518.9166
Total	0.2707	1.2759	2.4686	6.0300e-003	0.1827	0.0458	0.2285	0.0277	0.0458	0.0735	0.0000	518.3698	518.3698	0.0219	0.0000	518.9166

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3.2 Demolition - 2031**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	3.8300e-003	0.1150	0.0540	5.7000e-004	0.0357	2.1000e-004	0.0359	9.1800e-003	2.0000e-004	9.3800e-003	0.0000	58.0522	58.0522	5.5600e-003	0.0000	58.1912	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.9900e-003	2.2900e-003	0.0262	1.1000e-004	0.0157	7.0000e-005	0.0158	4.1700e-003	6.0000e-005	4.2400e-003	0.0000	9.8010	9.8010	1.9000e-004	0.0000	9.8059	
Total	7.8200e-003	0.1173	0.0802	6.8000e-004	0.0514	2.8000e-004	0.0517	0.0134	2.6000e-004	0.0136	0.0000	67.8533	67.8533	5.7500e-003	0.0000	67.9971	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1827	0.0000	0.1827	0.0277	0.0000	0.0277	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.2707	1.2759	2.4686	6.0300e-003		0.0458	0.0458		0.0458	0.0458	0.0000	518.3692	518.3692	0.0219	0.0000	518.9160	
Total	0.2707	1.2759	2.4686	6.0300e-003	0.1827	0.0458	0.2285	0.0277	0.0458	0.0735	0.0000	518.3692	518.3692	0.0219	0.0000	518.9160	

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3.2 Demolition - 2031**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	3.8300e-003	0.1150	0.0540	5.7000e-004	0.0357	2.1000e-004	0.0359	9.1800e-003	2.0000e-004	9.3800e-003	0.0000	58.0522	58.0522	5.5600e-003	0.0000	58.1912	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.9900e-003	2.2900e-003	0.0262	1.1000e-004	0.0157	7.0000e-005	0.0158	4.1700e-003	6.0000e-005	4.2400e-003	0.0000	9.8010	9.8010	1.9000e-004	0.0000	9.8059	
Total	7.8200e-003	0.1173	0.0802	6.8000e-004	0.0514	2.8000e-004	0.0517	0.0134	2.6000e-004	0.0136	0.0000	67.8533	67.8533	5.7500e-003	0.0000	67.9971	

3.2 Demolition - 2032**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1827	0.0000	0.1827	0.0277	0.0000	0.0277	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2707	1.2759	2.4686	6.0300e-003		0.0458	0.0458		0.0458	0.0458	0.0000	518.3698	518.3698	0.0219	0.0000	518.9166
Total	0.2707	1.2759	2.4686	6.0300e-003	0.1827	0.0458	0.2285	0.0277	0.0458	0.0735	0.0000	518.3698	518.3698	0.0219	0.0000	518.9166

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3.2 Demolition - 2032**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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-003	0.1135	0.0543	5.7000e-004	0.0357	2.1000e-004	0.0359	9.1800e-003	2.0000e-004	9.3800e-003	0.0000	57.9023	57.9023	5.5700e-003	0.0000	58.0415	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.7200e-003	2.1600e-003	0.0249	1.1000e-004	0.0157	7.0000e-005	0.0158	4.1700e-003	6.0000e-005	4.2300e-003	0.0000	9.6063	9.6063	1.8000e-004	0.0000	9.6109	
Total	7.5200e-003	0.1157	0.0793	6.8000e-004	0.0514	2.8000e-004	0.0517	0.0134	2.6000e-004	0.0136	0.0000	67.5087	67.5087	5.7500e-003	0.0000	67.6524	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1827	0.0000	0.1827	0.0277	0.0000	0.0277	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.2707	1.2759	2.4686	6.0300e-003		0.0458	0.0458		0.0458	0.0458	0.0000	518.3692	518.3692	0.0219	0.0000	518.9160	
Total	0.2707	1.2759	2.4686	6.0300e-003	0.1827	0.0458	0.2285	0.0277	0.0458	0.0735	0.0000	518.3692	518.3692	0.0219	0.0000	518.9160	

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3.2 Demolition - 2032**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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-003	0.1135	0.0543	5.7000e-004	0.0357	2.1000e-004	0.0359	9.1800e-003	2.0000e-004	9.3800e-003	0.0000	57.9023	57.9023	5.5700e-003	0.0000	58.0415	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.7200e-003	2.1600e-003	0.0249	1.1000e-004	0.0157	7.0000e-005	0.0158	4.1700e-003	6.0000e-005	4.2300e-003	0.0000	9.6063	9.6063	1.8000e-004	0.0000	9.6109	
Total	7.5200e-003	0.1157	0.0793	6.8000e-004	0.0514	2.8000e-004	0.0517	0.0134	2.6000e-004	0.0136	0.0000	67.5087	67.5087	5.7500e-003	0.0000	67.6524	

3.3 Site Preparation - 2032**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.0300e-003	0.0000	9.0300e-003	4.9700e-003	0.0000	4.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2200e-003	6.8300e-003	8.1500e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	2.0002	2.0002	1.0000e-004	0.0000	2.0027
Total	1.2200e-003	6.8300e-003	8.1500e-003	2.0000e-005	9.0300e-003	2.2000e-004	9.2500e-003	4.9700e-003	2.2000e-004	5.1900e-003	0.0000	2.0002	2.0002	1.0000e-004	0.0000	2.0027

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3.3 Site Preparation - 2032**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	2.0000e-005	1.0000e-005	1.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0442	0.0442	0.0000	0.0000	0.0442	
Total	2.0000e-005	1.0000e-005	1.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0442	0.0442	0.0000	0.0000	0.0442	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					9.0300e-003	0.0000	9.0300e-003	4.9700e-003	0.0000	4.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	1.2200e-003	6.8300e-003	8.1500e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	2.0002	2.0002	1.0000e-004	0.0000	2.0027	
Total	1.2200e-003	6.8300e-003	8.1500e-003	2.0000e-005	9.0300e-003	2.2000e-004	9.2500e-003	4.9700e-003	2.2000e-004	5.1900e-003	0.0000	2.0002	2.0002	1.0000e-004	0.0000	2.0027	

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3.3 Site Preparation - 2032**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	2.0000e-005	1.0000e-005	1.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0442	0.0442	0.0000	0.0000	0.0442	
Total	2.0000e-005	1.0000e-005	1.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0442	0.0442	0.0000	0.0000	0.0442	

3.3 Site Preparation - 2033**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3172	1.7768	2.1179	6.0500e-003		0.0568	0.0568		0.0568	0.0568	0.0000	520.0600	520.0600	0.0257	0.0000	520.7015
Total	0.3172	1.7768	2.1179	6.0500e-003	2.3486	0.0568	2.4054	1.2910	0.0568	1.3478	0.0000	520.0600	520.0600	0.0257	0.0000	520.7015

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3.3 Site Preparation - 2033**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.1700e-003	2.4500e-003	0.0285	1.2000e-004	0.0188	7.0000e-005	0.0188	4.9900e-003	7.0000e-005	5.0500e-003	0.0000	11.2830	11.2830	2.1000e-004	0.0000	11.2883	
Total	4.1700e-003	2.4500e-003	0.0285	1.2000e-004	0.0188	7.0000e-005	0.0188	4.9900e-003	7.0000e-005	5.0500e-003	0.0000	11.2830	11.2830	2.1000e-004	0.0000	11.2883	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.3172	1.7768	2.1179	6.0500e-003		0.0568	0.0568		0.0568	0.0568	0.0000	520.0593	520.0593	0.0257	0.0000	520.7009	
Total	0.3172	1.7768	2.1179	6.0500e-003	2.3486	0.0568	2.4054	1.2910	0.0568	1.3478	0.0000	520.0593	520.0593	0.0257	0.0000	520.7009	

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3.3 Site Preparation - 2033**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.1700e-003	2.4500e-003	0.0285	1.2000e-004	0.0188	7.0000e-005	0.0188	4.9900e-003	7.0000e-005	5.0500e-003	0.0000	11.2830	11.2830	2.1000e-004	0.0000	11.2883	
Total	4.1700e-003	2.4500e-003	0.0285	1.2000e-004	0.0188	7.0000e-005	0.0188	4.9900e-003	7.0000e-005	5.0500e-003	0.0000	11.2830	11.2830	2.1000e-004	0.0000	11.2883	

3.3 Site Preparation - 2034**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.3172	1.7768	2.1179	6.0500e-003		0.0568	0.0568		0.0568	0.0568	0.0000	520.0600	520.0600	0.0257	0.0000	520.7015	
Total	0.3172	1.7768	2.1179	6.0500e-003	2.3486	0.0568	2.4054	1.2910	0.0568	1.3478	0.0000	520.0600	520.0600	0.0257	0.0000	520.7015	

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3.3 Site Preparation - 2034**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.9200e-003	2.3400e-003	0.0273	1.2000e-004	0.0188	7.0000e-005	0.0188	4.9900e-003	6.0000e-005	5.0500e-003	0.0000	11.1104	11.1104	2.0000e-004	0.0000	11.1154	
Total	3.9200e-003	2.3400e-003	0.0273	1.2000e-004	0.0188	7.0000e-005	0.0188	4.9900e-003	6.0000e-005	5.0500e-003	0.0000	11.1104	11.1104	2.0000e-004	0.0000	11.1154	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3172	1.7768	2.1179	6.0500e-003		0.0568	0.0568		0.0568	0.0568	0.0000	520.0593	520.0593	0.0257	0.0000	520.7009
Total	0.3172	1.7768	2.1179	6.0500e-003	2.3486	0.0568	2.4054	1.2910	0.0568	1.3478	0.0000	520.0593	520.0593	0.0257	0.0000	520.7009

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3.3 Site Preparation - 2034**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.9200e-003	2.3400e-003	0.0273	1.2000e-004	0.0188	7.0000e-005	0.0188	4.9900e-003	6.0000e-005	5.0500e-003	0.0000	11.1104	11.1104	2.0000e-004	0.0000	11.1154	
Total	3.9200e-003	2.3400e-003	0.0273	1.2000e-004	0.0188	7.0000e-005	0.0188	4.9900e-003	6.0000e-005	5.0500e-003	0.0000	11.1104	11.1104	2.0000e-004	0.0000	11.1154	

3.3 Site Preparation - 2035**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3577	0.0000	2.3577	1.2960	0.0000	1.2960	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2804	1.3233	2.0845	6.0800e-003		0.0380	0.0380		0.0380	0.0380	0.0000	522.0602	522.0602	0.0224	0.0000	522.6194
Total	0.2804	1.3233	2.0845	6.0800e-003	2.3577	0.0380	2.3956	1.2960	0.0380	1.3339	0.0000	522.0602	522.0602	0.0224	0.0000	522.6194

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3.3 Site Preparation - 2035**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.7300e-003	2.2600e-003	0.0263	1.2000e-004	0.0188	6.0000e-005	0.0189	5.0100e-003	6.0000e-005	5.0600e-003	0.0000	11.0067	11.0067	1.9000e-004	0.0000	11.0115	
Total	3.7300e-003	2.2600e-003	0.0263	1.2000e-004	0.0188	6.0000e-005	0.0189	5.0100e-003	6.0000e-005	5.0600e-003	0.0000	11.0067	11.0067	1.9000e-004	0.0000	11.0115	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3577	0.0000	2.3577	1.2960	0.0000	1.2960	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2804	1.3233	2.0845	6.0800e-003		0.0380	0.0380		0.0380	0.0380	0.0000	522.0596	522.0596	0.0224	0.0000	522.6187
Total	0.2804	1.3233	2.0845	6.0800e-003	2.3577	0.0380	2.3956	1.2960	0.0380	1.3339	0.0000	522.0596	522.0596	0.0224	0.0000	522.6187

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3.3 Site Preparation - 2035**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.7300e-003	2.2600e-003	0.0263	1.2000e-004	0.0188	6.0000e-005	0.0189	5.0100e-003	6.0000e-005	5.0600e-003	0.0000	11.0067	11.0067	1.9000e-004	0.0000	11.0115	
Total	3.7300e-003	2.2600e-003	0.0263	1.2000e-004	0.0188	6.0000e-005	0.0189	5.0100e-003	6.0000e-005	5.0600e-003	0.0000	11.0067	11.0067	1.9000e-004	0.0000	11.0115	

3.3 Site Preparation - 2036**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3667	0.0000	2.3667	1.3009	0.0000	1.3009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2814	1.3283	2.0925	6.1000e-003		0.0381	0.0381		0.0381	0.0381	0.0000	524.0604	524.0604	0.0225	0.0000	524.6217
Total	0.2814	1.3283	2.0925	6.1000e-003	2.3667	0.0381	2.4048	1.3009	0.0381	1.3391	0.0000	524.0604	524.0604	0.0225	0.0000	524.6217

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3.3 Site Preparation - 2036**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.7500e-003	2.2700e-003	0.0264	1.2000e-004	0.0189	6.0000e-005	0.0190	5.0200e-003	6.0000e-005	5.0800e-003	0.0000	11.0488	11.0488	2.0000e-004	0.0000	11.0537	
Total	3.7500e-003	2.2700e-003	0.0264	1.2000e-004	0.0189	6.0000e-005	0.0190	5.0200e-003	6.0000e-005	5.0800e-003	0.0000	11.0488	11.0488	2.0000e-004	0.0000	11.0537	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3667	0.0000	2.3667	1.3009	0.0000	1.3009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2814	1.3283	2.0925	6.1000e-003		0.0381	0.0381		0.0381	0.0381	0.0000	524.0598	524.0598	0.0225	0.0000	524.6211
Total	0.2814	1.3283	2.0925	6.1000e-003	2.3667	0.0381	2.4048	1.3009	0.0381	1.3391	0.0000	524.0598	524.0598	0.0225	0.0000	524.6211

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3.3 Site Preparation - 2036**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.7500e-003	2.2700e-003	0.0264	1.2000e-004	0.0189	6.0000e-005	0.0190	5.0200e-003	6.0000e-005	5.0800e-003	0.0000	11.0488	11.0488	2.0000e-004	0.0000	11.0537	
Total	3.7500e-003	2.2700e-003	0.0264	1.2000e-004	0.0189	6.0000e-005	0.0190	5.0200e-003	6.0000e-005	5.0800e-003	0.0000	11.0488	11.0488	2.0000e-004	0.0000	11.0537	

3.3 Site Preparation - 2037**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3577	0.0000	2.3577	1.2960	0.0000	1.2960	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2804	1.3233	2.0845	6.0800e-003		0.0380	0.0380		0.0380	0.0380	0.0000	522.0602	522.0602	0.0224	0.0000	522.6194
Total	0.2804	1.3233	2.0845	6.0800e-003	2.3577	0.0380	2.3956	1.2960	0.0380	1.3339	0.0000	522.0602	522.0602	0.0224	0.0000	522.6194

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3.3 Site Preparation - 2037**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.7300e-003	2.2600e-003	0.0263	1.2000e-004	0.0188	6.0000e-005	0.0189	5.0100e-003	6.0000e-005	5.0600e-003	0.0000	11.0067	11.0067	1.9000e-004	0.0000	11.0115	
Total	3.7300e-003	2.2600e-003	0.0263	1.2000e-004	0.0188	6.0000e-005	0.0189	5.0100e-003	6.0000e-005	5.0600e-003	0.0000	11.0067	11.0067	1.9000e-004	0.0000	11.0115	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3577	0.0000	2.3577	1.2960	0.0000	1.2960	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2804	1.3233	2.0845	6.0800e-003		0.0380	0.0380		0.0380	0.0380	0.0000	522.0596	522.0596	0.0224	0.0000	522.6187
Total	0.2804	1.3233	2.0845	6.0800e-003	2.3577	0.0380	2.3956	1.2960	0.0380	1.3339	0.0000	522.0596	522.0596	0.0224	0.0000	522.6187

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3.3 Site Preparation - 2037**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.7300e-003	2.2600e-003	0.0263	1.2000e-004	0.0188	6.0000e-005	0.0189	5.0100e-003	6.0000e-005	5.0600e-003	0.0000	11.0067	11.0067	1.9000e-004	0.0000	11.0115	
Total	3.7300e-003	2.2600e-003	0.0263	1.2000e-004	0.0188	6.0000e-005	0.0189	5.0100e-003	6.0000e-005	5.0600e-003	0.0000	11.0067	11.0067	1.9000e-004	0.0000	11.0115	

3.3 Site Preparation - 2038**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2793	1.3182	2.0765	6.0500e-003		0.0378	0.0378		0.0378	0.0378	0.0000	520.0600	520.0600	0.0223	0.0000	520.6170
Total	0.2793	1.3182	2.0765	6.0500e-003	2.3486	0.0378	2.3865	1.2910	0.0378	1.3288	0.0000	520.0600	520.0600	0.0223	0.0000	520.6170

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3.3 Site Preparation - 2038**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.7200e-003	2.2500e-003	0.0262	1.2000e-004	0.0188	6.0000e-005	0.0188	4.9900e-003	6.0000e-005	5.0500e-003	0.0000	10.9645	10.9645	1.9000e-004	0.0000	10.9693	
Total	3.7200e-003	2.2500e-003	0.0262	1.2000e-004	0.0188	6.0000e-005	0.0188	4.9900e-003	6.0000e-005	5.0500e-003	0.0000	10.9645	10.9645	1.9000e-004	0.0000	10.9693	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2793	1.3182	2.0765	6.0500e-003		0.0378	0.0378		0.0378	0.0378	0.0000	520.0593	520.0593	0.0223	0.0000	520.6164
Total	0.2793	1.3182	2.0765	6.0500e-003	2.3486	0.0378	2.3865	1.2910	0.0378	1.3288	0.0000	520.0593	520.0593	0.0223	0.0000	520.6164

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3.3 Site Preparation - 2038**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.7200e-003	2.2500e-003	0.0262	1.2000e-004	0.0188	6.0000e-005	0.0188	4.9900e-003	6.0000e-005	5.0500e-003	0.0000	10.9645	10.9645	1.9000e-004	0.0000	10.9693	
Total	3.7200e-003	2.2500e-003	0.0262	1.2000e-004	0.0188	6.0000e-005	0.0188	4.9900e-003	6.0000e-005	5.0500e-003	0.0000	10.9645	10.9645	1.9000e-004	0.0000	10.9693	

3.4 Grading - 2038**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					20.5502	0.0000	20.5502	2.2203	0.0000	2.2203	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4600e-003	4.8000e-003	0.0113	3.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	3.2718	3.2718	1.2000e-004	0.0000	3.2747
Total	1.4600e-003	4.8000e-003	0.0113	3.0000e-005	20.5502	1.6000e-004	20.5504	2.2203	1.6000e-004	2.2204	0.0000	3.2718	3.2718	1.2000e-004	0.0000	3.2747

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3.4 Grading - 2038**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	2.0000e-005	1.0000e-005	1.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0469	0.0469	0.0000	0.0000	0.0000	0.0469	
Total	2.0000e-005	1.0000e-005	1.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0469	0.0469	0.0000	0.0000	0.0000	0.0469	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					20.5502	0.0000	20.5502	2.2203	0.0000	2.2203	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	1.4600e-003	4.8000e-003	0.0113	3.0000e-005	20.5502	1.6000e-004	1.6000e-004	1.6000e-004	1.6000e-004	0.0000	3.2718	3.2718	1.2000e-004	0.0000	0.0000	3.2747	
Total	1.4600e-003	4.8000e-003	0.0113	3.0000e-005	20.5502	1.6000e-004	20.5504	2.2203	1.6000e-004	2.2204	0.0000	3.2718	3.2718	1.2000e-004	0.0000	3.2747	

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3.4 Grading - 2038**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	2.0000e-005	1.0000e-005	1.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0469	0.0469	0.0000	0.0000	0.0469	
Total	2.0000e-005	1.0000e-005	1.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0469	0.0469	0.0000	0.0000	0.0469	

3.4 Grading - 2039**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					20.8634	0.0000	20.8634	2.3924	0.0000	2.3924	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1529	0.5037	1.1826	3.6700e-003		0.0165	0.0165		0.0165	0.0165	0.0000	343.5405	343.5405	0.0122	0.0000	343.8452
Total	0.1529	0.5037	1.1826	3.6700e-003	20.8634	0.0165	20.8799	2.3924	0.0165	2.4089	0.0000	343.5405	343.5405	0.0122	0.0000	343.8452

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3.4 Grading - 2039**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	1.6700e-003	1.0100e-003	0.0118	5.0000e-005	8.4200e-003	3.0000e-005	8.4500e-003	2.2400e-003	3.0000e-005	2.2600e-003	0.0000	4.9200	4.9200	9.0000e-005	0.0000	4.9221	
Total	1.6700e-003	1.0100e-003	0.0118	5.0000e-005	8.4200e-003	3.0000e-005	8.4500e-003	2.2400e-003	3.0000e-005	2.2600e-003	0.0000	4.9200	4.9200	9.0000e-005	0.0000	4.9221	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					20.8634	0.0000	20.8634	2.3924	0.0000	2.3924	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.1529	0.5037	1.1826	3.6700e-003		0.0165	0.0165		0.0165	0.0165	0.0000	343.5400	343.5400	0.0122	0.0000	343.8448	
Total	0.1529	0.5037	1.1826	3.6700e-003	20.8634	0.0165	20.8799	2.3924	0.0165	2.4089	0.0000	343.5400	343.5400	0.0122	0.0000	343.8448	

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3.4 Grading - 2039**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	1.6700e-003	1.0100e-003	0.0118	5.0000e-005	8.4200e-003	3.0000e-005	8.4500e-003	2.2400e-003	3.0000e-005	2.2600e-003	0.0000	4.9200	4.9200	9.0000e-005	0.0000	4.9221	
Total	1.6700e-003	1.0100e-003	0.0118	5.0000e-005	8.4200e-003	3.0000e-005	8.4500e-003	2.2400e-003	3.0000e-005	2.2600e-003	0.0000	4.9200	4.9200	9.0000e-005	0.0000	4.9221	

3.5 Building Construction - 2039**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0943	0.5550	1.2491	2.4000e-003		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003	0.0000	203.7173	203.7173	7.5900e-003	0.0000	203.9070
Total	0.0943	0.5550	1.2491	2.4000e-003		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003	0.0000	203.7173	203.7173	7.5900e-003	0.0000	203.9070

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3.5 Building Construction - 2039**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	1.0740	39.6436	12.5791	0.1441	3.9264	0.0422	3.9686	1.1336	0.0403	1.1739	0.0000	14,269.96 88	14,269.96 88	0.9374	0.0000	14,293.40 34	
Worker	2.8205	1.7082	19.8816	0.0919	14.2382	0.0484	14.2866	3.7835	0.0445	3.8280	0.0000	8,319.544 8	8,319.544 8	0.1468	0.0000	8,323.215 8	
Total	3.8946	41.3517	32.4607	0.2360	18.1646	0.0906	18.2552	4.9171	0.0848	5.0019	0.0000	22,589.51 35	22,589.51 35	1.0842	0.0000	22,616.61 92	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Off-Road	0.0943	0.5550	1.2491	2.4000e-003		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003	0.0000	203.7171	203.7171	7.5900e-003	0.0000	203.9067	
Total	0.0943	0.5550	1.2491	2.4000e-003		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003	0.0000	203.7171	203.7171	7.5900e-003	0.0000	203.9067	

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3.5 Building Construction - 2039**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	1.0740	39.6436	12.5791	0.1441	3.9264	0.0422	3.9686	1.1336	0.0403	1.1739	0.0000	14,269.96 88	14,269.96 88	0.9374	0.0000	14,293.40 34	
Worker	2.8205	1.7082	19.8816	0.0919	14.2382	0.0484	14.2866	3.7835	0.0445	3.8280	0.0000	8,319.544 8	8,319.544 8	0.1468	0.0000	8,323.215 8	
Total	3.8946	41.3517	32.4607	0.2360	18.1646	0.0906	18.2552	4.9171	0.0848	5.0019	0.0000	22,589.51 35	22,589.51 35	1.0842	0.0000	22,616.61 92	

3.5 Building Construction - 2040**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Off-Road	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419	
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419	

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3.5 Building Construction - 2040**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	1.7838	65.6093	20.9381	0.2423	6.6117	0.0689	6.6806	1.9089	0.0658	1.9747	0.0000	24,003.72 50	24,003.72 50	1.5587	0.0000	24,042.69 25	
Worker	3.7676	2.5077	29.1698	0.1485	23.9753	0.0630	24.0384	6.3710	0.0580	6.4289	0.0000	13,450.92 89	13,450.92 89	0.2133	0.0000	13,456.26 23	
Total	5.5514	68.1170	50.1079	0.3908	30.5870	0.1319	30.7189	8.2799	0.1238	8.4036	0.0000	37,454.65 39	37,454.65 39	1.7720	0.0000	37,498.95 48	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415

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3.5 Building Construction - 2040**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	1.7838	65.6093	20.9381	0.2423	6.6117	0.0689	6.6806	1.9089	0.0658	1.9747	0.0000	24,003.72 50	24,003.72 50	1.5587	0.0000	24,042.69 25	
Worker	3.7676	2.5077	29.1698	0.1485	23.9753	0.0630	24.0384	6.3710	0.0580	6.4289	0.0000	13,450.92 89	13,450.92 89	0.2133	0.0000	13,456.26 23	
Total	5.5514	68.1170	50.1079	0.3908	30.5870	0.1319	30.7189	8.2799	0.1238	8.4036	0.0000	37,454.65 39	37,454.65 39	1.7720	0.0000	37,498.95 48	

3.5 Building Construction - 2041**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Off-Road	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419	
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419	

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3.5 Building Construction - 2041**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	1.7838	65.6093	20.9381	0.2423	6.6117	0.0689	6.6806	1.9089	0.0658	1.9747	0.0000	24,003.72 50	24,003.72 50	1.5587	0.0000	24,042.69 25	
Worker	3.7676	2.5077	29.1698	0.1485	23.9753	0.0630	24.0384	6.3710	0.0580	6.4289	0.0000	13,450.92 89	13,450.92 89	0.2133	0.0000	13,456.26 23	
Total	5.5514	68.1170	50.1079	0.3908	30.5870	0.1319	30.7189	8.2799	0.1238	8.4036	0.0000	37,454.65 39	37,454.65 39	1.7720	0.0000	37,498.95 48	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415

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3.5 Building Construction - 2041**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	1.7838	65.6093	20.9381	0.2423	6.6117	0.0689	6.6806	1.9089	0.0658	1.9747	0.0000	24,003.72 50	24,003.72 50	1.5587	0.0000	24,042.69 25	
Worker	3.7676	2.5077	29.1698	0.1485	23.9753	0.0630	24.0384	6.3710	0.0580	6.4289	0.0000	13,450.92 89	13,450.92 89	0.2133	0.0000	13,456.26 23	
Total	5.5514	68.1170	50.1079	0.3908	30.5870	0.1319	30.7189	8.2799	0.1238	8.4036	0.0000	37,454.65 39	37,454.65 39	1.7720	0.0000	37,498.95 48	

3.5 Building Construction - 2042**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Off-Road	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419	
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419	

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3.5 Building Construction - 2042**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	1.7838	65.6093	20.9381	0.2423	6.6117	0.0689	6.6806	1.9089	0.0658	1.9747	0.0000	24,003.72 50	24,003.72 50	1.5587	0.0000	24,042.69 25	
Worker	3.7676	2.5077	29.1698	0.1485	23.9753	0.0630	24.0384	6.3710	0.0580	6.4289	0.0000	13,450.92 89	13,450.92 89	0.2133	0.0000	13,456.26 23	
Total	5.5514	68.1170	50.1079	0.3908	30.5870	0.1319	30.7189	8.2799	0.1238	8.4036	0.0000	37,454.65 39	37,454.65 39	1.7720	0.0000	37,498.95 48	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Off-Road	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415	
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415	

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3.5 Building Construction - 2042**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	1.7838	65.6093	20.9381	0.2423	6.6117	0.0689	6.6806	1.9089	0.0658	1.9747	0.0000	24,003.72 50	24,003.72 50	1.5587	0.0000	24,042.69 25	
Worker	3.7676	2.5077	29.1698	0.1485	23.9753	0.0630	24.0384	6.3710	0.0580	6.4289	0.0000	13,450.92 89	13,450.92 89	0.2133	0.0000	13,456.26 23	
Total	5.5514	68.1170	50.1079	0.3908	30.5870	0.1319	30.7189	8.2799	0.1238	8.4036	0.0000	37,454.65 39	37,454.65 39	1.7720	0.0000	37,498.95 48	

3.5 Building Construction - 2043**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Off-Road	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419	
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419	

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3.5 Building Construction - 2043**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	1.7838	65.6093	20.9381	0.2423	6.6117	0.0689	6.6806	1.9089	0.0658	1.9747	0.0000	24,003.72 50	24,003.72 50	1.5587	0.0000	24,042.69 25	
Worker	3.7676	2.5077	29.1698	0.1485	23.9753	0.0630	24.0384	6.3710	0.0580	6.4289	0.0000	13,450.92 89	13,450.92 89	0.2133	0.0000	13,456.26 23	
Total	5.5514	68.1170	50.1079	0.3908	30.5870	0.1319	30.7189	8.2799	0.1238	8.4036	0.0000	37,454.65 39	37,454.65 39	1.7720	0.0000	37,498.95 48	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Off-Road	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415	
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415	

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3.5 Building Construction - 2043**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	1.7838	65.6093	20.9381	0.2423	6.6117	0.0689	6.6806	1.9089	0.0658	1.9747	0.0000	24,003.72 50	24,003.72 50	1.5587	0.0000	24,042.69 25	
Worker	3.7676	2.5077	29.1698	0.1485	23.9753	0.0630	24.0384	6.3710	0.0580	6.4289	0.0000	13,450.92 89	13,450.92 89	0.2133	0.0000	13,456.26 23	
Total	5.5514	68.1170	50.1079	0.3908	30.5870	0.1319	30.7189	8.2799	0.1238	8.4036	0.0000	37,454.65 39	37,454.65 39	1.7720	0.0000	37,498.95 48	

3.5 Building Construction - 2044**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Off-Road	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419	
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419	

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3.5 Building Construction - 2044**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	1.7838	65.6093	20.9381	0.2423	6.6117	0.0689	6.6806	1.9089	0.0658	1.9747	0.0000	24,003.72 50	24,003.72 50	1.5587	0.0000	24,042.69 25	
Worker	3.7676	2.5077	29.1698	0.1485	23.9753	0.0630	24.0384	6.3710	0.0580	6.4289	0.0000	13,450.92 89	13,450.92 89	0.2133	0.0000	13,456.26 23	
Total	5.5514	68.1170	50.1079	0.3908	30.5870	0.1319	30.7189	8.2799	0.1238	8.4036	0.0000	37,454.65 39	37,454.65 39	1.7720	0.0000	37,498.95 48	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415

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3.5 Building Construction - 2044**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	1.7838	65.6093	20.9381	0.2423	6.6117	0.0689	6.6806	1.9089	0.0658	1.9747	0.0000	24,003.72 50	24,003.72 50	1.5587	0.0000	24,042.69 25	
Worker	3.7676	2.5077	29.1698	0.1485	23.9753	0.0630	24.0384	6.3710	0.0580	6.4289	0.0000	13,450.92 89	13,450.92 89	0.2133	0.0000	13,456.26 23	
Total	5.5514	68.1170	50.1079	0.3908	30.5870	0.1319	30.7189	8.2799	0.1238	8.4036	0.0000	37,454.65 39	37,454.65 39	1.7720	0.0000	37,498.95 48	

3.5 Building Construction - 2045**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Off-Road	0.1556	0.8957	2.0954	4.0200e-003		9.5800e-003	9.5800e-003		9.5800e-003	9.5800e-003	0.0000	341.7194	341.7194	0.0123	0.0000	342.0264	
Total	0.1556	0.8957	2.0954	4.0200e-003		9.5800e-003	9.5800e-003		9.5800e-003	9.5800e-003	0.0000	341.7194	341.7194	0.0123	0.0000	342.0264	

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3.5 Building Construction - 2045**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	1.7623	64.9247	20.5231	0.2408	6.5866	0.0676	6.6542	1.9017	0.0646	1.9663	0.0000	23,849.07 17	23,849.07 17	1.5154	0.0000	23,886.95 64	
Worker	3.3474	2.3659	27.4002	0.1455	23.8835	0.0552	23.9387	6.3465	0.0508	6.3973	0.0000	13,187.14 69	13,187.14 69	0.2015	0.0000	13,192.18 46	
Total	5.1096	67.2905	47.9233	0.3863	30.4700	0.1228	30.5928	8.2482	0.1154	8.3636	0.0000	37,036.21 85	37,036.21 85	1.7169	0.0000	37,079.14 10	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1556	0.8957	2.0954	4.0200e-003		9.5800e-003	9.5800e-003	9.5800e-003	9.5800e-003	0.0000	341.7190	341.7190	0.0123	0.0000	342.0260	
Total	0.1556	0.8957	2.0954	4.0200e-003		9.5800e-003	9.5800e-003		9.5800e-003	9.5800e-003	0.0000	341.7190	341.7190	0.0123	0.0000	342.0260

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3.5 Building Construction - 2045**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	1.7623	64.9247	20.5231	0.2408	6.5866	0.0676	6.6542	1.9017	0.0646	1.9663	0.0000	23,849.07 17	23,849.07 17	1.5154	0.0000	23,886.95 64	
Worker	3.3474	2.3659	27.4002	0.1455	23.8835	0.0552	23.9387	6.3465	0.0508	6.3973	0.0000	13,187.14 69	13,187.14 69	0.2015	0.0000	13,192.18 46	
Total	5.1096	67.2905	47.9233	0.3863	30.4700	0.1228	30.5928	8.2482	0.1154	8.3636	0.0000	37,036.21 85	37,036.21 85	1.7169	0.0000	37,079.14 10	

3.5 Building Construction - 2046**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Off-Road	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419	
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0337	343.0337	0.0123	0.0000	343.3419	

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3.5 Building Construction - 2046**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	1.7691	65.1744	20.6021	0.2418	6.6119	0.0679	6.6798	1.9090	0.0649	1.9738	0.0000	23,940.79 89	23,940.79 89	1.5212	0.0000	23,978.82 93	
Worker	3.3602	2.3750	27.5056	0.1461	23.9753	0.0554	24.0307	6.3710	0.0510	6.4219	0.0000	13,237.86 67	13,237.86 67	0.2023	0.0000	13,242.92 38	
Total	5.1293	67.5494	48.1077	0.3878	30.5872	0.1233	30.7105	8.2799	0.1158	8.3957	0.0000	37,178.66 55	37,178.66 55	1.7235	0.0000	37,221.75 31	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Off-Road	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415	
Total	0.1562	0.8992	2.1035	4.0400e-003		9.6200e-003	9.6200e-003		9.6200e-003	9.6200e-003	0.0000	343.0333	343.0333	0.0123	0.0000	343.3415	

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3.5 Building Construction - 2046**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	1.7691	65.1744	20.6021	0.2418	6.6119	0.0679	6.6798	1.9090	0.0649	1.9738	0.0000	23,940.79 89	23,940.79 89	1.5212	0.0000	23,978.82 93	
Worker	3.3602	2.3750	27.5056	0.1461	23.9753	0.0554	24.0307	6.3710	0.0510	6.4219	0.0000	13,237.86 67	13,237.86 67	0.2023	0.0000	13,242.92 38	
Total	5.1293	67.5494	48.1077	0.3878	30.5872	0.1233	30.7105	8.2799	0.1158	8.3957	0.0000	37,178.66 55	37,178.66 55	1.7235	0.0000	37,221.75 31	

3.5 Building Construction - 2047**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Off-Road	0.0832	0.4789	1.1202	2.1500e-003		5.1200e-003	5.1200e-003		5.1200e-003	5.1200e-003	0.0000	182.6884	182.6884	6.5700e-003	0.0000	182.8526	
Total	0.0832	0.4789	1.1202	2.1500e-003		5.1200e-003	5.1200e-003		5.1200e-003	5.1200e-003	0.0000	182.6884	182.6884	6.5700e-003	0.0000	182.8526	

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3.5 Building Construction - 2047**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.9421	34.7097	10.9720	0.1288	3.5213	0.0362	3.5574	1.0167	0.0345	1.0512	0.0000	12,750.08 06	12,750.08 06	0.8102	0.0000	12,770.33 44	
Worker	1.7895	1.2648	14.6486	0.0778	12.7685	0.0295	12.7980	3.3930	0.0271	3.4201	0.0000	7,050.051 6	7,050.051 6	0.1077	0.0000	7,052.744 8	
Total	2.7317	35.9746	25.6206	0.2065	16.2898	0.0657	16.3554	4.4096	0.0617	4.4713	0.0000	19,800.13 22	19,800.13 22	0.9179	0.0000	19,823.07 92	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Off-Road	0.0832	0.4789	1.1202	2.1500e-003		5.1200e-003	5.1200e-003		5.1200e-003	5.1200e-003	0.0000	182.6882	182.6882	6.5700e-003	0.0000	182.8524	
Total	0.0832	0.4789	1.1202	2.1500e-003		5.1200e-003	5.1200e-003		5.1200e-003	5.1200e-003	0.0000	182.6882	182.6882	6.5700e-003	0.0000	182.8524	

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3.5 Building Construction - 2047**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.9421	34.7097	10.9720	0.1288	3.5213	0.0362	3.5574	1.0167	0.0345	1.0512	0.0000	12,750.08 06	12,750.08 06	0.8102	0.0000	12,770.33 44	
Worker	1.7895	1.2648	14.6486	0.0778	12.7685	0.0295	12.7980	3.3930	0.0271	3.4201	0.0000	7,050.051 6	7,050.051 6	0.1077	0.0000	7,052.744 8	
Total	2.7317	35.9746	25.6206	0.2065	16.2898	0.0657	16.3554	4.4096	0.0617	4.4713	0.0000	19,800.13 22	19,800.13 22	0.9179	0.0000	19,823.07 92	

3.6 Paving - 2047**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Off-Road	0.0617	0.2231	0.9649	1.7100e-003		7.1000e-003	7.1000e-003		7.1000e-003	7.1000e-003	0.0000	147.0070	147.0070	4.9400e-003	0.0000	147.1306	
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total	0.0617	0.2231	0.9649	1.7100e-003		7.1000e-003	7.1000e-003		7.1000e-003	7.1000e-003	0.0000	147.0070	147.0070	4.9400e-003	0.0000	147.1306	

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3.6 Paving - 2047**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	1.0300e-003	7.3000e-004	8.4200e-003	4.0000e-005	7.3400e-003	2.0000e-005	7.3500e-003	1.9500e-003	2.0000e-005	1.9700e-003	0.0000	4.0514	4.0514	6.0000e-005	0.0000	4.0529	
Total	1.0300e-003	7.3000e-004	8.4200e-003	4.0000e-005	7.3400e-003	2.0000e-005	7.3500e-003	1.9500e-003	2.0000e-005	1.9700e-003	0.0000	4.0514	4.0514	6.0000e-005	0.0000	4.0529	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0617	0.2231	0.9649	1.7100e-003		7.1000e-003	7.1000e-003		7.1000e-003	7.1000e-003	0.0000	147.0069	147.0069	4.9400e-003	0.0000	147.1304
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0617	0.2231	0.9649	1.7100e-003		7.1000e-003	7.1000e-003		7.1000e-003	7.1000e-003	0.0000	147.0069	147.0069	4.9400e-003	0.0000	147.1304

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3.6 Paving - 2047**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	1.0300e-003	7.3000e-004	8.4200e-003	4.0000e-005	7.3400e-003	2.0000e-005	7.3500e-003	1.9500e-003	2.0000e-005	1.9700e-003	0.0000	4.0514	4.0514	6.0000e-005	0.0000	4.0529	
Total	1.0300e-003	7.3000e-004	8.4200e-003	4.0000e-005	7.3400e-003	2.0000e-005	7.3500e-003	1.9500e-003	2.0000e-005	1.9700e-003	0.0000	4.0514	4.0514	6.0000e-005	0.0000	4.0529	

3.6 Paving - 2048**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0915	0.3309	1.4315	2.5400e-003		0.0105	0.0105		0.0105	0.0105	0.0000	218.1006	218.1006	7.3300e-003	0.0000	218.2839
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0915	0.3309	1.4315	2.5400e-003		0.0105	0.0105		0.0105	0.0105	0.0000	218.1006	218.1006	7.3300e-003	0.0000	218.2839

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3.6 Paving - 2048**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	1.5300e-003	1.0800e-003	0.0125	7.0000e-005	0.0109	3.0000e-005	0.0109	2.8900e-003	2.0000e-005	2.9200e-003	0.0000	6.0107	6.0107	9.0000e-005	0.0000	6.0130	
Total	1.5300e-003	1.0800e-003	0.0125	7.0000e-005	0.0109	3.0000e-005	0.0109	2.8900e-003	2.0000e-005	2.9200e-003	0.0000	6.0107	6.0107	9.0000e-005	0.0000	6.0130	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Off-Road	0.0915	0.3309	1.4315	2.5400e-003		0.0105	0.0105		0.0105	0.0105	0.0000	218.1004	218.1004	7.3300e-003	0.0000	218.2836	
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total	0.0915	0.3309	1.4315	2.5400e-003		0.0105	0.0105		0.0105	0.0105	0.0000	218.1004	218.1004	7.3300e-003	0.0000	218.2836	

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3.6 Paving - 2048**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	1.5300e-003	1.0800e-003	0.0125	7.0000e-005	0.0109	3.0000e-005	0.0109	2.8900e-003	2.0000e-005	2.9200e-003	0.0000	6.0107	6.0107	9.0000e-005	0.0000	6.0130	
Total	1.5300e-003	1.0800e-003	0.0125	7.0000e-005	0.0109	3.0000e-005	0.0109	2.8900e-003	2.0000e-005	2.9200e-003	0.0000	6.0107	6.0107	9.0000e-005	0.0000	6.0130	

3.7 Architectural Coating - 2039**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	17.1193						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7100e-003	0.0303	0.0718	1.2000e-004		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	10.2130	10.2130	3.8000e-004	0.0000	10.2225
Total	17.1240	0.0303	0.0718	1.2000e-004		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	10.2130	10.2130	3.8000e-004	0.0000	10.2225

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3.7 Architectural Coating - 2039**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.2912	0.1763	2.0523	9.4800e-003	1.4698	4.9900e-003	1.4748	0.3906	4.5900e-003	0.3952	0.0000	858.7917	858.7917	0.0152	0.0000	859.1707	
Total	0.2912	0.1763	2.0523	9.4800e-003	1.4698	4.9900e-003	1.4748	0.3906	4.5900e-003	0.3952	0.0000	858.7917	858.7917	0.0152	0.0000	859.1707	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	17.1193						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	4.7100e-003	0.0303	0.0718	1.2000e-004		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	10.2130	10.2130	3.8000e-004	0.0000	10.2224	
Total	17.1240	0.0303	0.0718	1.2000e-004		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	10.2130	10.2130	3.8000e-004	0.0000	10.2224	

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3.7 Architectural Coating - 2039**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.2912	0.1763	2.0523	9.4800e-003	1.4698	4.9900e-003	1.4748	0.3906	4.5900e-003	0.3952	0.0000	858.7917	858.7917	0.0152	0.0000	859.1707	
Total	0.2912	0.1763	2.0523	9.4800e-003	1.4698	4.9900e-003	1.4748	0.3906	4.5900e-003	0.3952	0.0000	858.7917	858.7917	0.0152	0.0000	859.1707	

3.7 Architectural Coating - 2040**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	55.8516						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0150	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3200	33.3200	1.1700e-003	0.0000	33.3493	
Total	55.8666	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3200	33.3200	1.1700e-003	0.0000	33.3493	

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3.7 Architectural Coating - 2040**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	
Total	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	55.8516						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0150	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3199	33.3199	1.1700e-003	0.0000	33.3492	
Total	55.8666	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3199	33.3199	1.1700e-003	0.0000	33.3492	

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3.7 Architectural Coating - 2040**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	
Total	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	

3.7 Architectural Coating - 2041**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	55.8516						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0150	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3200	33.3200	1.1700e-003	0.0000	33.3493	
Total	55.8666	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3200	33.3200	1.1700e-003	0.0000	33.3493	

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3.7 Architectural Coating - 2041**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	
Total	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	55.8516						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0150	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3199	33.3199	1.1700e-003	0.0000	33.3492	
Total	55.8666	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3199	33.3199	1.1700e-003	0.0000	33.3492	

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3.7 Architectural Coating - 2041**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	
Total	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	

3.7 Architectural Coating - 2042**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	55.8516						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0150	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3200	33.3200	1.1700e-003	0.0000	33.3493	
Total	55.8666	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3200	33.3200	1.1700e-003	0.0000	33.3493	

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3.7 Architectural Coating - 2042**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	
Total	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	55.8516						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0150	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3199	33.3199	1.1700e-003	0.0000	33.3492	
Total	55.8666	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3199	33.3199	1.1700e-003	0.0000	33.3492	

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3.7 Architectural Coating - 2042**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	
Total	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	

3.7 Architectural Coating - 2043**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	55.8516						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0150	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3200	33.3200	1.1700e-003	0.0000	33.3493	
Total	55.8666	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3200	33.3200	1.1700e-003	0.0000	33.3493	

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3.7 Architectural Coating - 2043**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	
Total	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	55.8516						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0150	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3199	33.3199	1.1700e-003	0.0000	33.3492	
Total	55.8666	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3199	33.3199	1.1700e-003	0.0000	33.3492	

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3.7 Architectural Coating - 2043**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	
Total	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	

3.7 Architectural Coating - 2044**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	55.8516						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0150	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3200	33.3200	1.1700e-003	0.0000	33.3493	
Total	55.8666	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3200	33.3200	1.1700e-003	0.0000	33.3493	

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3.7 Architectural Coating - 2044**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	
Total	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	55.8516						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0150	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3199	33.3199	1.1700e-003	0.0000	33.3492	
Total	55.8666	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3199	33.3199	1.1700e-003	0.0000	33.3492	

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3.7 Architectural Coating - 2044**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	
Total	0.7535	0.5015	5.8340	0.0297	4.7951	0.0126	4.8077	1.2742	0.0116	1.2858	0.0000	2,690.185 8	2,690.185 8	0.0427	0.0000	2,691.252 5	

3.7 Architectural Coating - 2045**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	55.6376						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0149	0.0945	0.2330	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.1923	33.1923	1.1700e-003	0.0000	33.2215	
Total	55.6525	0.0945	0.2330	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.1923	33.1923	1.1700e-003	0.0000	33.2215	

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3.7 Architectural Coating - 2045**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.6695	0.4732	5.4801	0.0291	4.7767	0.0110	4.7877	1.2693	0.0102	1.2795	0.0000	2,637.429 4	2,637.429 4	0.0403	0.0000	2,638.436 9	
Total	0.6695	0.4732	5.4801	0.0291	4.7767	0.0110	4.7877	1.2693	0.0102	1.2795	0.0000	2,637.429 4	2,637.429 4	0.0403	0.0000	2,638.436 9	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	55.6376						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0149	0.0945	0.2330	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.1923	33.1923	1.1700e-003	0.0000	33.2215	
Total	55.6525	0.0945	0.2330	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.1923	33.1923	1.1700e-003	0.0000	33.2215	

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3.7 Architectural Coating - 2045**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.6695	0.4732	5.4801	0.0291	4.7767	0.0110	4.7877	1.2693	0.0102	1.2795	0.0000	2,637.429 4	2,637.429 4	0.0403	0.0000	2,638.436 9	
Total	0.6695	0.4732	5.4801	0.0291	4.7767	0.0110	4.7877	1.2693	0.0102	1.2795	0.0000	2,637.429 4	2,637.429 4	0.0403	0.0000	2,638.436 9	

3.7 Architectural Coating - 2046**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	55.8516						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0150	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3200	33.3200	1.1700e-003	0.0000	33.3493	
Total	55.8666	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3200	33.3200	1.1700e-003	0.0000	33.3493	

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3.7 Architectural Coating - 2046**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.6720	0.4750	5.5011	0.0292	4.7951	0.0111	4.8062	1.2742	0.0102	1.2844	0.0000	2,647.573 3	2,647.573 3	0.0405	0.0000	2,648.584 8	
Total	0.6720	0.4750	5.5011	0.0292	4.7951	0.0111	4.8062	1.2742	0.0102	1.2844	0.0000	2,647.573 3	2,647.573 3	0.0405	0.0000	2,648.584 8	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	55.8516						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0150	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3199	33.3199	1.1700e-003	0.0000	33.3492	
Total	55.8666	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3199	33.3199	1.1700e-003	0.0000	33.3492	

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3.7 Architectural Coating - 2046**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.6720	0.4750	5.5011	0.0292	4.7951	0.0111	4.8062	1.2742	0.0102	1.2844	0.0000	2,647.573 3	2,647.573 3	0.0405	0.0000	2,648.584 8	
Total	0.6720	0.4750	5.5011	0.0292	4.7951	0.0111	4.8062	1.2742	0.0102	1.2844	0.0000	2,647.573 3	2,647.573 3	0.0405	0.0000	2,648.584 8	

3.7 Architectural Coating - 2047**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	55.8516						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0150	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3200	33.3200	1.1700e-003	0.0000	33.3493	
Total	55.8666	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3200	33.3200	1.1700e-003	0.0000	33.3493	

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3.7 Architectural Coating - 2047**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.6720	0.4750	5.5011	0.0292	4.7951	0.0111	4.8062	1.2742	0.0102	1.2844	0.0000	2,647.573 3	2,647.573 3	0.0405	0.0000	2,648.584 8	
Total	0.6720	0.4750	5.5011	0.0292	4.7951	0.0111	4.8062	1.2742	0.0102	1.2844	0.0000	2,647.573 3	2,647.573 3	0.0405	0.0000	2,648.584 8	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	55.8516						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0150	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3199	33.3199	1.1700e-003	0.0000	33.3492	
Total	55.8666	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3199	33.3199	1.1700e-003	0.0000	33.3492	

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3.7 Architectural Coating - 2047**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.6720	0.4750	5.5011	0.0292	4.7951	0.0111	4.8062	1.2742	0.0102	1.2844	0.0000	2,647.573 3	2,647.573 3	0.0405	0.0000	2,648.584 8	
Total	0.6720	0.4750	5.5011	0.0292	4.7951	0.0111	4.8062	1.2742	0.0102	1.2844	0.0000	2,647.573 3	2,647.573 3	0.0405	0.0000	2,648.584 8	

3.7 Architectural Coating - 2048**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	56.0656						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0151	0.0952	0.2348	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.4476	33.4476	1.1800e-003	0.0000	33.4771	
Total	56.0806	0.0952	0.2348	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.4476	33.4476	1.1800e-003	0.0000	33.4771	

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3.7 Architectural Coating - 2048**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.6746	0.4768	5.5222	0.0293	4.8134	0.0111	4.8246	1.2791	0.0102	1.2893	0.0000	2,657.717 3	2,657.717 3	0.0406	0.0000	2,658.732 6	
Total	0.6746	0.4768	5.5222	0.0293	4.8134	0.0111	4.8246	1.2791	0.0102	1.2893	0.0000	2,657.717 3	2,657.717 3	0.0406	0.0000	2,658.732 6	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	56.0656						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0151	0.0952	0.2348	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.4476	33.4476	1.1800e-003	0.0000	33.4770	
Total	56.0806	0.0952	0.2348	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.4476	33.4476	1.1800e-003	0.0000	33.4770	

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3.7 Architectural Coating - 2048**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.6746	0.4768	5.5222	0.0293	4.8134	0.0111	4.8246	1.2791	0.0102	1.2893	0.0000	2,657.717 3	2,657.717 3	0.0406	0.0000	2,658.732 6	
Total	0.6746	0.4768	5.5222	0.0293	4.8134	0.0111	4.8246	1.2791	0.0102	1.2893	0.0000	2,657.717 3	2,657.717 3	0.0406	0.0000	2,658.732 6	

3.7 Architectural Coating - 2049**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	47.2919						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0127	0.0803	0.1981	3.3000e-004		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	28.2135	28.2135	9.9000e-004	0.0000	28.2383	
Total	47.3046	0.0803	0.1981	3.3000e-004		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	28.2135	28.2135	9.9000e-004	0.0000	28.2383	

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3.7 Architectural Coating - 2049**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.5691	0.4022	4.6580	0.0247	4.0602	9.3800e-003	4.0696	1.0789	8.6300e-003	1.0875	0.0000	2,241.8150	2,241.8150	0.0343	0.0000	2,242.6714	
Total	0.5691	0.4022	4.6580	0.0247	4.0602	9.3800e-003	4.0696	1.0789	8.6300e-003	1.0875	0.0000	2,241.8150	2,241.8150	0.0343	0.0000	2,242.6714	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	47.2919						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0127	0.0803	0.1981	3.3000e-004		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	28.2134	28.2134	9.9000e-004	0.0000	28.2382	
Total	47.3046	0.0803	0.1981	3.3000e-004		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	28.2134	28.2134	9.9000e-004	0.0000	28.2382	

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3.7 Architectural Coating - 2049**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.5691	0.4022	4.6580	0.0247	4.0602	9.3800e-003	4.0696	1.0789	8.6300e-003	1.0875	0.0000	2,241.8150	2,241.8150	0.0343	0.0000	2,242.6714	
Total	0.5691	0.4022	4.6580	0.0247	4.0602	9.3800e-003	4.0696	1.0789	8.6300e-003	1.0875	0.0000	2,241.8150	2,241.8150	0.0343	0.0000	2,242.6714	

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Increase Density

Improve Walkability Design

Improve Pedestrian Network

Expand Transit Network

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Mitigated	41.5865	235.2973	536.5647	2.6228	317.1398	0.9545	318.0942	84.9264	0.8891	85.8155	0.0000	245,403.6 114	245,403.6 114	11.3686	0.0000	245,687.8 257	
Unmitigated	38.9928	224.7761	488.0713	2.3482	281.4501	0.8585	282.3086	75.3692	0.7995	76.1687	0.0000	219,787.4 784	219,787.4 784	10.3034	0.0000	220,045.0 641	

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	8,312.50	7,987.50	7325.00	23,199,340	26,141,163
Research & Development	90,021.00	21,090.00	12321.00	173,115,815	195,068,001
Single Family Housing	6,473.60	6,738.80	5861.60	18,342,632	20,668,594
City Park	141.75	1,706.25	1255.50	1,119,425	1,261,376
City Park	189.00	2,275.00	1674.00	1,492,567	1,681,834
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Condo/Townhouse	3,195.50	3,118.50	2662.00	8,875,099	10,000,518
Condo/Townhouse High Rise	50,160.00	51,720.00	41160.00	140,187,237	157,963,869
Office Park	130,188.00	18,696.00	8664.00	242,855,371	273,650,975
Office Park	68,520.00	9,840.00	4560.00	127,818,616	144,026,829
Regional Shopping Center	5,551.00	6,496.10	3281.20	9,400,795	10,592,875
Total	362,752.35	129,668.15	88,764.30	746,406,897	841,056,034

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Condo/Townhouse High Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668
Research & Development	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668
Single Family Housing	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668
City Park	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668
Other Non-Asphalt Surfaces	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668
Condo/Townhouse	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668
Condo/Townhouse High Rise	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668
Office Park	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668
Regional Shopping Center	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	141,473.9047	141,473.9047	5.6944	1.1782	141,967.3521	
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	141,473.9047	141,473.9047	5.6944	1.1782	141,967.3521	
NaturalGas Mitigated	4.3869	39.5212	30.8632	0.2393			3.0309	3.0309		3.0309	3.0309	0.0000	43,415.0002	43,415.0002	0.8321	0.7959	43,672.9938
NaturalGas Unmitigated	4.3869	39.5212	30.8632	0.2393			3.0309	3.0309		3.0309	3.0309	0.0000	43,415.0002	43,415.0002	0.8321	0.7959	43,672.9938

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5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	9.28593e+006	0.0501	0.4279	0.1821	2.7300e-003		0.0346	0.0346		0.0346	0.0346	0.0000	495.5323	495.5323	9.5000e-003	9.0800e-003	498.4770
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	7.91057e+006	0.0427	0.3645	0.1551	2.3300e-003		0.0295	0.0295		0.0295	0.0295	0.0000	422.1380	422.1380	8.0900e-003	7.7400e-003	424.6466
Condo/Townhouse High Rise	8.91449e+007	0.4807	4.1077	1.7479	0.0262		0.3321	0.3321		0.3321	0.3321	0.0000	4,757.1103	4,757.1103	0.0912	0.0872	4,785.3794
Office Park	1.9404e+008	1.0463	9.5118	7.9899	0.0571		0.7229	0.7229		0.7229	0.7229	0.0000	10,354.7134	10,354.7134	0.1985	0.1898	10,416.2462
Office Park	3.68676e+008	1.9880	18.0724	15.1808	0.1084		1.3735	1.3735		1.3735	1.3735	0.0000	19,673.9554	19,673.9554	0.3771	0.3607	19,790.8678
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	289900	1.5600e-003	0.0142	0.0119	9.0000e-005		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	15.4702	15.4702	3.0000e-004	2.8000e-004	15.5621
Research & Development	1.28316e+008	0.6919	6.2900	5.2836	0.0377		0.4780	0.4780		0.4780	0.4780	0.0000	6,847.4304	6,847.4304	0.1312	0.1255	6,888.1213
Single Family Housing	1.59031e+007	0.0858	0.7328	0.3118	4.6800e-003		0.0593	0.0593		0.0593	0.0593	0.0000	848.6503	848.6503	0.0163	0.0156	853.6934
Total		4.3869	39.5212	30.8632	0.2393		3.0309	3.0309		3.0309	3.0309	0.0000	43,415.002	43,415.002	0.8321	0.7959	43,672.9938

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5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	9.28593e+006	0.0501	0.4279	0.1821	2.7300e-003		0.0346	0.0346		0.0346	0.0346	0.0000	495.5323	495.5323	9.5000e-003	9.0800e-003	498.4770
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	7.91057e+006	0.0427	0.3645	0.1551	2.3300e-003		0.0295	0.0295		0.0295	0.0295	0.0000	422.1380	422.1380	8.0900e-003	7.7400e-003	424.6466
Condo/Townhouse High Rise	8.91449e+007	0.4807	4.1077	1.7479	0.0262		0.3321	0.3321		0.3321	0.3321	0.0000	4,757.1103	4,757.1103	0.0912	0.0872	4,785.3794
Office Park	1.9404e+008	1.0463	9.5118	7.9899	0.0571		0.7229	0.7229		0.7229	0.7229	0.0000	10,354.7134	10,354.7134	0.1985	0.1898	10,416.2462
Office Park	3.68676e+008	1.9880	18.0724	15.1808	0.1084		1.3735	1.3735		1.3735	1.3735	0.0000	19,673.9554	19,673.9554	0.3771	0.3607	19,790.8678
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	289900	1.5600e-003	0.0142	0.0119	9.0000e-005		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	15.4702	15.4702	3.0000e-004	2.8000e-004	15.5621
Research & Development	1.28316e+008	0.6919	6.2900	5.2836	0.0377		0.4780	0.4780		0.4780	0.4780	0.0000	6,847.4304	6,847.4304	0.1312	0.1255	6,888.1213
Single Family Housing	1.59031e+007	0.0858	0.7328	0.3118	4.6800e-003		0.0593	0.0593		0.0593	0.0593	0.0000	848.6503	848.6503	0.0163	0.0156	853.6934
Total		4.3869	39.5212	30.8632	0.2393		3.0309	3.0309		3.0309	3.0309	0.0000	43,415.002	43,415.002	0.8321	0.7959	43,672.9938

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	5.00616e +006	1,636.0578	0.0659	0.0136	1,641.7642
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	2.76283e +006	902.9176	0.0363	7.5200e-003	906.0668
Condo/Townhouse High Rise	5.11751e +007	16,724.4648	0.6732	0.1393	16,782.7981
Office Park	1.79892e +008	58,790.2827	2.3663	0.4896	58,995.3375
Office Park	9.468e +007	30,942.2540	1.2454	0.2577	31,050.1776
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.6328e +006	533.6134	0.0215	4.4400e-003	535.4746
Research & Development	9.2241e +007	30,145.1675	1.2134	0.2510	30,250.3109
Single Family Housing	5.5052e +006	1,799.1471	0.0724	0.0150	1,805.4224
Total		141,473.9047	5.6944	1.1782	141,967.3521

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5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	5.00616e +006	1,636.0578	0.0659	0.0136	1,641.7642
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	2.76283e +006	902.9176	0.0363	7.5200e-003	906.0668
Condo/Townhouse High Rise	5.11751e +007	16,724.4648	0.6732	0.1393	16,782.7981
Office Park	1.79892e +008	58,790.2827	2.3663	0.4896	58,995.3375
Office Park	9.468e +007	30,942.2540	1.2454	0.2577	31,050.1776
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.6328e +006	533.6134	0.0215	4.4400e-003	535.4746
Research & Development	9.2241e +007	30,145.1675	1.2134	0.2510	30,250.3109
Single Family Housing	5.5052e +006	1,799.1471	0.0724	0.0150	1,805.4224
Total		141,473.9047	5.6944	1.1782	141,967.3521

6.0 Area Detail**6.1 Mitigation Measures Area**

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Use Electric Lawnmower
 Use Electric Leafblower
 Use Electric Chainsaw
 Use Low VOC Paint - Residential Interior
 Use Low VOC Paint - Residential Exterior
 Use Low VOC Paint - Non-Residential Interior
 Use Low VOC Paint - Non-Residential Exterior
 Use only Natural Gas Hearths
 Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	217.6800	6.5276	96.6978	0.0393		0.9591	0.9591		0.9591	0.9591	0.0000	6,422.498	6,422.498	0.2485	0.1150	6,462.982
Unmitigated	231.1857	6.6544	109.6114	0.0403		1.0351	1.0351		1.0351	1.0351	0.0000	6,448.983	6,448.983	0.2887	0.1150	6,490.471

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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	56.7075					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	170.6187					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.6338	5.4165	2.3049	0.0346		0.4379	0.4379		0.4379	0.4379	0.0000	6,272.843 1	6,272.843 1	0.1202	0.1150	6,310.119 5
Landscaping	3.2257	1.2379	107.3065	5.7000e-003		0.5972	0.5972		0.5972	0.5972	0.0000	176.1400	176.1400	0.1685	0.0000	180.3523
Total	231.1857	6.6544	109.6114	0.0403		1.0351	1.0351		1.0351	1.0351	0.0000	6,448.983 1	6,448.983 1	0.2887	0.1150	6,490.471 8

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	56.7075					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	157.8717					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.6338	5.4165	2.3049	0.0346		0.4379	0.4379		0.4379	0.4379	0.0000	6,272.843 1	6,272.843 1	0.1202	0.1150	6,310.119 5
Landscaping	2.4669	1.1112	94.3930	4.7000e-003		0.5212	0.5212		0.5212	0.5212	0.0000	149.6558	149.6558	0.1283	0.0000	152.8626
Total	217.6800	6.5276	96.6979	0.0393		0.9591	0.9591		0.9591	0.9591	0.0000	6,422.498 9	6,422.498 9	0.2485	0.1150	6,462.982 0

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	53,275.75 76	311.6924	7.7305	63,371.76 29
Unmitigated	53,275.75 76	311.6924	7.7305	63,371.76 29

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7.2 Water by Land Use**Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	81.4425 / 51.3442	558.8295	2.6753	0.0671	645.7070
City Park	0 / 208.509	757.0648	0.0305	6.3000e- 003	759.7054
Condo/Townhous e	35.8347 / 22.5915	245.8850	1.1771	0.0295	284.1111
Condo/Townhous e High Rise	781.848 / 492.904	5,364.763 2	25.6825	0.6442	6,198.787 1
Office Park	3092.57 / 1895.44	21,023.23 38	101.5781	2.5463	24,321.49 25
Other Non- Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	9.62943 / 5.90191	65.4607	0.3163	7.9300e- 003	75.7306
Research & Development	5457.8 / 0	24,956.51 73	178.7774	4.3927	30,734.96 46
Single Family Housing	44.3047 / 27.9312	304.0033	1.4553	0.0365	351.2646
Total		53,275.75 76	311.6924	7.7305	63,371.76 29

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7.2 Water by Land Use**Mitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	81.4425 / 51.3442	558.8295	2.6753	0.0671	645.7070
City Park	0 / 208.509	757.0648	0.0305	6.3000e- 003	759.7054
Condo/Townhous e	35.8347 / 22.5915	245.8850	1.1771	0.0295	284.1111
Condo/Townhous e High Rise	781.848 / 492.904	5,364.763 2	25.6825	0.6442	6,198.787 1
Office Park	3092.57 / 1895.44	21,023.23 38	101.5781	2.5463	24,321.49 25
Other Non- Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	9.62943 / 5.90191	65.4607	0.3163	7.9300e- 003	75.7306
Research & Development	5457.8 / 0	24,956.51 73	178.7774	4.3927	30,734.96 46
Single Family Housing	44.3047 / 27.9312	304.0033	1.4553	0.0365	351.2646
Total		53,275.75 76	311.6924	7.7305	63,371.76 29

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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Category/Year

	Total CO2	CH4	N2O	CO2e
MT/yr				
Mitigated	4,937.251 8	291.7832	0.0000	12,231.83 22
Unmitigated	4,937.251 8	291.7832	0.0000	12,231.83 22

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	575	116.7198	6.8979	0.0000	289.1684
City Park	15.05	3.0550	0.1806	0.0000	7.5687
Condo/Townhouse	253	51.3567	3.0351	0.0000	127.2341
Condo/Townhouse High Rise	5520	1,120.5101	66.2203	0.0000	2,776.0164
Office Park	16182	3,284.7998	194.1261	0.0000	8,137.9524
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	136.5	27.7083	1.6375	0.0000	68.6461
Research & Development	843.52	171.2269	10.1192	0.0000	424.2075
Single Family Housing	797.45	161.8751	9.5666	0.0000	401.0388
Total		4,937.2517	291.7832	0.0000	12,231.8322

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	575	116.7198	6.8979	0.0000	289.1684
City Park	15.05	3.0550	0.1806	0.0000	7.5687
Condo/Townhouse	253	51.3567	3.0351	0.0000	127.2341
Condo/Townhouse High Rise	5520	1,120.5101	66.2203	0.0000	2,776.0164
Office Park	16182	3,284.7998	194.1261	0.0000	8,137.9524
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	136.5	27.7083	1.6375	0.0000	68.6461
Research & Development	843.52	171.2269	10.1192	0.0000	424.2075
Single Family Housing	797.45	161.8751	9.5666	0.0000	401.0388
Total		4,937.2517	291.7832	0.0000	12,231.8322

9.0 Operational Offroad

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

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Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
