AIR QUALITY AND GREENHOUSE GAS ASSESSMENT
FOR
US COLD STORAGE WHAREHOUSE FACILITY
CITY OF HESPERIA, CALIFORNIA

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December 2020

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1.0 INTRODUCTION

The Project Proponent has submitted an application to the City of Hesperia for the development of an approximate 78-acre site with a 1,012,816 square-foot Cold Storage Warehouse Facility. The site is located at the northeast corner of State Highway 395 (US-395) and Yucca Terrace Drive in the City of Hesperia (APN: 3064-421-01, -02 & -03). Refer to Figures 1, 2, and 3 for a regional location map, project vicinity map, and site plan, respectively.

This report is a study of the potential impacts the Proposed Project may have on the local and regional air quality in the vicinity during construction and ultimate operational use. This assessment discusses the existing air quality in the vicinity/region and the potential air quality impacts associated with the Proposed Project. Background material, including air quality emissions data output, is included in the Appendix.

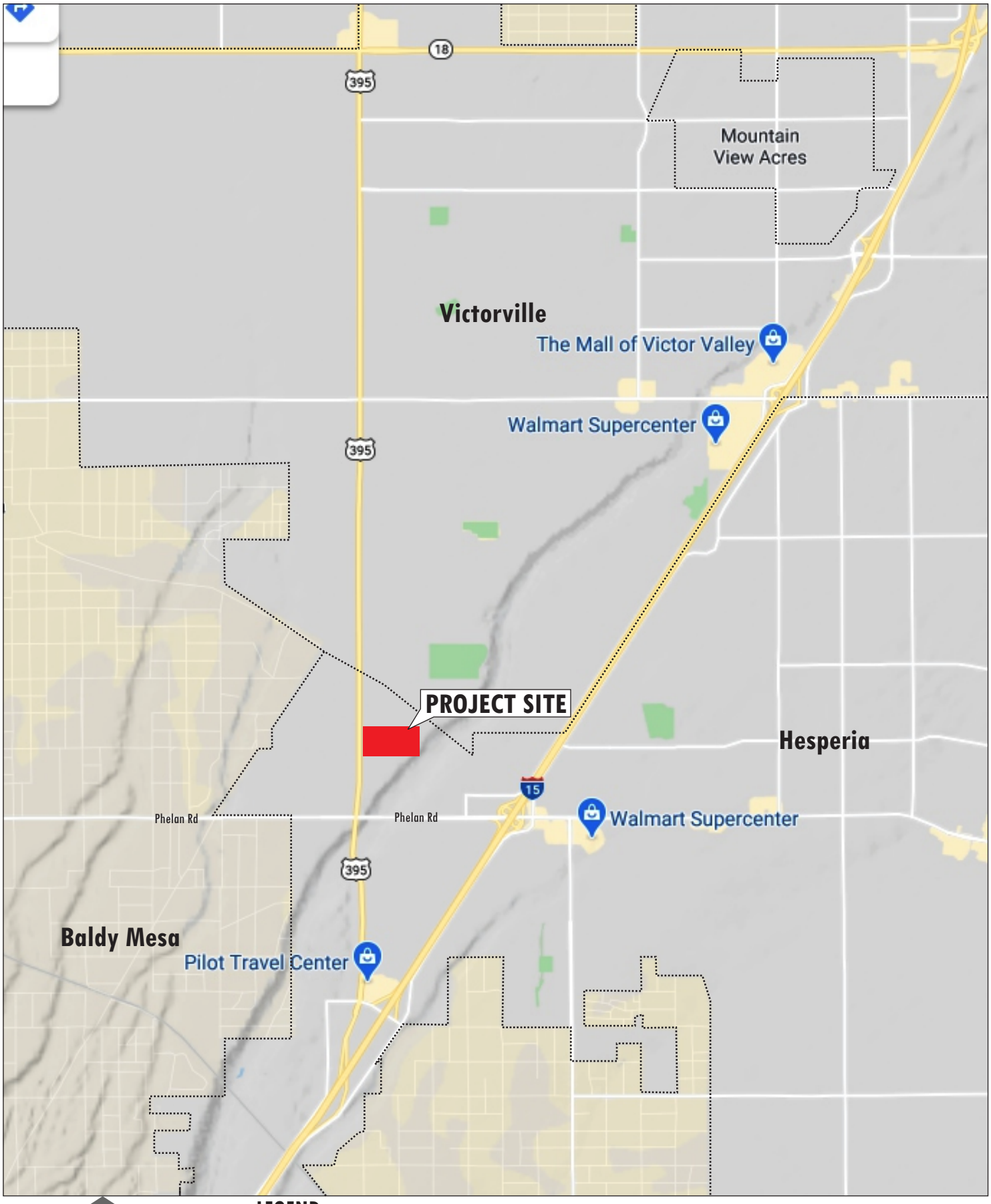
2.0 GENERAL SETTING

2.1 CLIMATE

The site is in the Mojave Desert Air Basin (MDAB), an approximate 21,000 square-mile area under the jurisdiction of the Mojave Desert Air Quality Management District (MDAQMD). The MDAB encompasses the desert portion of San Bernardino County and the Palo Verde Valley in eastern Riverside County. The MDAQMD has jurisdiction over that portion of the MDAB within San Bernardino and Riverside counties that includes the City of Hesperia. This area generally includes the portion of San Bernardino County north of the San Gabriel and San Bernardino mountains and the most eastern portion of Riverside County.

The desert portion of San Bernardino County is commonly referred to as the High Desert because of its altitude at approximately 1,000 to 4,500 feet above mean sea level. The region is characterized by a series of low mountain ranges and broad alluvial valleys. The area north of the mountains is generally within the MDAB under the jurisdiction of the MDAQMD. The area south of the mountains is generally located within the South Coast Air Basin (SCAB) under the jurisdiction of the South Coast Air Quality Management District (SCAQMD).

The High Desert region that includes the City of Hesperia is influenced by the San Bernardino and San Jacinto mountain ranges that represent the southerly boundary of the region. These mountain ranges rise to an average of 7,500 feet and are divided by the Banning Pass. A major factor that influences the MDAB's ambient air quality is its location downwind from the SCAB with its substantial pollution sources. Due to the meteorological and topographical factors of the region, air pollutants from the SCAB are transported into the MDAB via the Banning Pass contributing significantly to the ozone violations that occur in the Coachella Valley. With the overall reduction in pollutant levels in the SCAB, the result has been a decline in ozone violations in the MDAB.



LEGEND

City Boundaries

N

0 1

Miles

Source: Lilburn Corporation, September, 2020.

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REGIONAL LOCATION

United States Cold Storage Hesperia

Hesperia, California

FIGURE 1

N

0 650

Feet

Source: Lilburn Corporation, September, 2020.

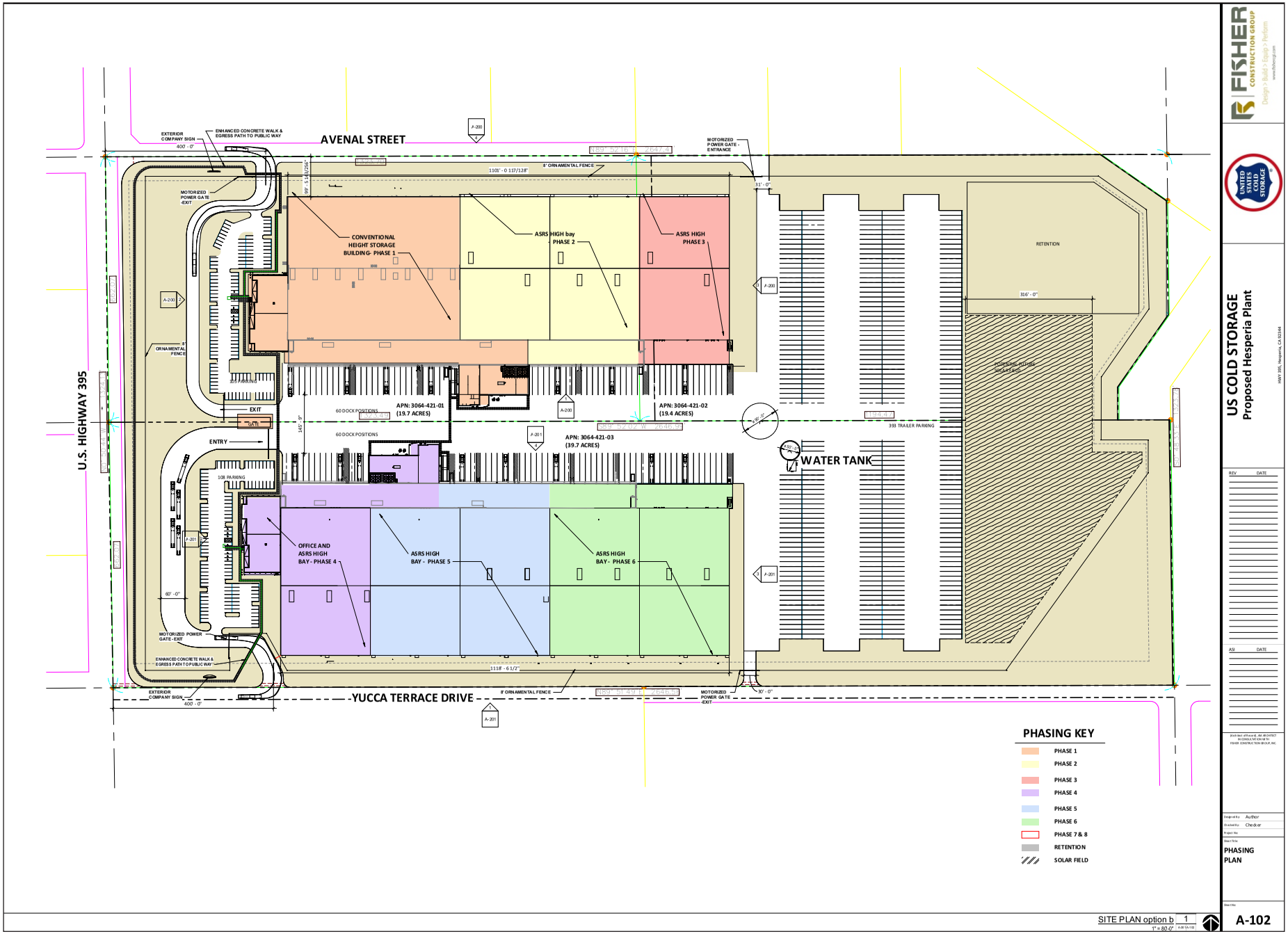
LILBURN CORPORATION

PROJECT VICINITY

United States Cold Storage Hesperia

Hesperia, California

FIGURE 2



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UNITED STATES COLD STORAGE

US COLD STORAGE
Proposed Hesperia Plant
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REV DATE

ASI DATE

Designed by: Author
Checked by: Checker
Project No:

PHASING PLAN

A-102

SITE PLAN

United States Cold Storage Hesperia

Hesperia, California

FIGURE 3

LILBURN CORPORATION

The High Desert is classified as an arid desert climate. In the Mojave Desert, this is modified by the San Bernardino and San Jacinto mountains forming barriers to precipitation. The rain shadow causes the aridity of the High Desert climate, while leaving the summers hot and the winters generally mild.

For most of the summer, the region is under the northern edge of the Pacific Subtropical Ridge that limits cloud formation and allows strong daytime heating. This is a zone with no dominant winds, which allows more local effects such as the sea breeze passing through the Banning Pass to control the local weather. The high pressure systems also contribute to the presence of persistent inversion layers that trap pollutants by preventing their dispersion through vertical mixing. In late summer, the ridge can move far enough north to allow humid air from the Gulf of California, and even as far east as the Gulf of Mexico, into the High Desert. When this happens, thunderstorms may form, causing isolated flash floods and high wind gusts.

Average high temperatures in summer are in the mid 90s to 100° Fahrenheit (F). Average low temperatures are in the mid-60s to 70s. During winter, the Polar Front Jet stream steers pressure systems from west to east across the region. Mild rains result from systems steered in from the southwest and northwest. Winter storm systems are often followed by periods of clear skies and strong westerly or northerly winds. Average high temperatures in winter are in the mid-50s and average low temperatures are in the mid-30s.

Three weather factors have significant impacts on air quality; wind, precipitation and inversion layers. Each of these is discussed below.

Wind

Although the High Desert is 80 miles from the ocean, the sea breeze can be a dominant weather feature. The sea breeze is caused by differential heating of land and water. Land heats faster than the ocean, and because hot air rises, air warmed over land during the day rises, and cooler denser air from the ocean moves in to replace it. Normally limited to within a few miles of a coastline, the extreme differences in temperature between the desert and the Pacific Ocean make the sea breeze a regional phenomenon in southern California. The combination of extreme temperature differences and physical restraint on the air movements means there is a consistent source for strong wind blowing through Banning Pass and across the High and Low Desert. The sea breeze is a primary transportation medium, bringing pollutants out of the coastal valleys and into the desert.

Precipitation

The High Desert receives precipitation from winter cold fronts and moist southerly air masses during the late summer. Summer thunderstorms bring highly variable amounts of localized rain. The rain from these storms falling into the dry air often evaporates before reaching the surface. However, if the storm lasts long enough, the area beneath the storm may get several inches of rain over a short time leading to flash floods and rapid erosion in washes and gullies.

Inversions

Inversions are layers in the atmosphere where the temperature increases with height instead of decreasing as is normal. Inversions trap pollutants by limiting the vertical mixing which normally disperses pollutants into the upper atmosphere. There are two types of inversions affecting the High Desert. The first is the regional inversions caused by subsiding air within the high-pressure systems that dominate the summer weather. These subsidence inversions can occur at varying altitudes, with corresponding variable effects on the pollution levels. The lower the inversion level, the greater the concentration of pollutants between it and the ground. The second type is the radiation inversion that forms when the ground cools rapidly after sunset, cooling the air immediately above it at the same time.

2.2 APPLICABLE POLICES, PLANS, AND REGULATIONS

Air quality is determined primarily by the types and amounts of contaminants emitted into the atmosphere, the size and topography of the local air basin and the pollutant-dispersing properties of local weather patterns. When airborne pollutants are produced in such volume that they are not dispersed by local meteorological conditions, air quality problems result. Dispersion of pollutants in the MDAB is influenced by periodic temperature inversions, persistent meteorological conditions and the local topography. As pollutants become more concentrated in the atmosphere, photochemical reactions occur, producing ozone and other oxidants.

Another major factor that influences the MDAB's ambient air quality is its location downwind from two air basins with substantial pollution sources. Due to the meteorological and topographical factors of the region, air pollutants from the SCAB and the San Joaquin Valley Air Basin are transported into the MDAB contributing significantly to the ozone violations that occur. With the overall reduction in pollutant levels in the SCAB, the result has been a substantial decline in ozone violations in the Mojave Desert. However, with urban growth in the San Joaquin Valley rapidly increasing, and agriculture continuing to dominate that valley's economy, pollutant levels are increasing.

Air emissions from the Proposed Project are subject to federal, State and local rules and regulations implemented through provisions of the federal Clean Air Act, California Clean Air Act and the rules and regulations of the California Air Resources Board (CARB) and MDAQMD. Under the provisions of the federal and California Clean Air Acts, air quality management districts with air basins not in attainment of the air quality standards are required to prepare an Air Quality Management Plan (AQMP). An AQMP establishes an area-specific program to control existing and proposed sources of air emissions so that the air quality standards may be attained by an applicable target date. The following is an overview of these rules and regulations.

Federal Clean Air Act. The federal Clean Air Act was established in an effort to assure that acceptable levels of air quality are maintained in all areas of the United States. These levels are based upon health-related exposure limits and are referred to as National Ambient Air Quality Standards (NAAQS). The NAAQS establish maximum allowable concentrations of specific pollutants in the atmosphere and characterize the amount of exposure deemed safe of the public. The NAAQS set standards for the following pollutants:

Nitrogen dioxide (NO_2)
Sulfur dioxide (SO_2)
Particulate matter less than 10 microns, aerodynamic diameter (PM_{10})
Particulate matter less than 2.5 microns, aerodynamic diameter ($PM_{2.5}$)
Ozone (O_3)
Lead (Pb)
Carbon Monoxide (CO)

Primary and secondary NAAQS have been established and are shown in Table 1. Primary standards reflect levels of air quality deemed necessary by the EPA to provide an adequate margin of safety to protect public health. Areas found to be in violation of primary standards are termed "nonattainment areas". Secondary standards reflect levels of air quality necessary to protect public welfare from the known or anticipated adverse effects of a pollutant.

California Clean Air Act. Under the federal Clean Air Act, state and local authorities have primary responsibility for assuring that their respective regions are in attainment of, or have a verifiable plan to attain, the NAAQS. The federal Clean Air Act also provides state and local agencies authority to promulgate more stringent ambient air quality standards. The California Ambient Air Quality Standards (CAAQS) for the following pollutants are also included in Table 1.

Hydrogen sulfide (H_2S)
Vinyl chloride
Sulfates (SO_4)
Visibility-reducing particles

Under the provisions of the federal and California Clean Air Acts, air quality districts in areas not in attainment of the NAAQS or CAAQS are required to prepare an AQMP. An AQMP establishes an area-specific program to control existing and proposed sources of air emissions so that the NAAQS or CAAQS may be attained by the applicable target date. CARB and EPA are required to designate areas of the state as "attainment", "nonattainment", or "unclassified" for state and federal ambient air quality standards. An attainment designation for an area signifies that pollutant concentrations did not violate the standard for that pollutant. A nonattainment designation indicates that a pollutant concentration violated the standard at least once, excluding those occasions when a violation was caused by an extraordinary event. An unclassified designation indicates a lack of adequate air quality data or other information on which to base an attainment or nonattainment designation.

Table 1
State and Federal
Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[1]		Federal Standards[2]		
		Concentration[3]	Method[4]	Primary[3,5]	Secondary[3,6]	Method[7]
Ozone (O_3)[8]	1-Hour	0.09 ppm (180 µg/m^3)	Ultraviolet Photometry	---	Same as Primary Standard	Ultraviolet Photometry
	8-Hour	0.07 ppm (137 µg/m^3)		0.070 ppm (137 µg/m^3)		
Respirable Particulate Matter (PM_{10})[9]	24-Hour	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetic Analysis
	Annual Arithmetic Mean	20 µg/m^3		---		
Fine Particulate Matter ($PM_{2.5}$)[9]	24-Hour	---		35 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetic Analysis
	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	12 µg/m^3	15 µg/m^3	
Carbon Monoxide (CO)	1-Hour	20 ppm (23 mg/m^3)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m^3)	---	Non-Dispersive Infrared Photometry (NDIR)
	8-Hour	9.0 ppm (10 mg/m^3)		9 ppm (10 mg/m^3)		
	8-Hour (Lake Tahoe)	6 ppm (7 mg/m^3)		–		
Nitrogen Dioxide (NO_2)[10]	1-Hour	0.18 ppm (339 µg/m^3)	Gas Phase Chemiluminescence	100 ppb (188 µg/m^3)	---	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)		0.053 ppb (100 µg/m^3)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1-Hour	0.25 ppm (655 µg/m^3)	Ultraviolet Fluorescence	75 ppd (196 µg/m^3)	–	Ultraviolet Flourescence, Spectrophotometry (Pararosaniline Method)
	3-Hour	---		--	0.5 ppm (1300 µg/m^3)	
	24-Hour	0.04 ppm (105 µg/m^3)		0.14 ppm (for certain areas)[10]	---	
	Annual Arithmetic Mean	–		0.030 ppm (for certain areas)[10]	–	
Lead[12,13]	30-day average	1.5 µg/m^3	Atomic Absorption	–	–	High Volume Sampler and Atomic Absorption
	Calendar Quarter	--		1.5 µg/m^3 (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	–		0.15 µg/m^3		
Visibility-Reducing Particles[14]	8-Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	**No Federal 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[12]	24-Hour	0.01 ppm (26 µg/m^3)	Gas Chromatography			

Source: ARB, May 4, 2016.

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, 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.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m3 is equal to or less than one. For PM2.5, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.

3. Concentration expressed first in units in which it was promulgated. 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.
4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 µg/m3 to 12.0 µg/m3. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 µg/m3, as was the annual secondary standard of 15 µg/m3. The existing 24-hour PM10 standards (primary and secondary) of 150 µg/m3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm
11. On June 2, 2010, a new 1-hour SO2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
    Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants
13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 µg/m3 as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
14. In 1989, the ARB 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.

2.3 EXISTING AIR QUALITY

Air quality is determined primarily by the types and amounts of contaminants emitted into the atmosphere, the size and topography of the local air basin, and the pollutant-dispersing properties of local weather patterns. When airborne pollutants are produced in such volume that they are not dispersed by local meteorological conditions, air quality problems result. Dispersion of pollutants in the MDAB is influenced by periodic temperature inversions, persistent meteorological conditions and the local topography. As pollutants become more concentrated in the atmosphere, photochemical reactions occur, producing ozone and other oxidants.

The federal Clean Air Act was established in an effort to assure that acceptable levels of air quality are maintained in all areas of the United States. These levels are based upon health-related exposure limits and are referred to as NAAQS. The NAAQS establish maximum

allowable concentrations of specific pollutants in the atmosphere and characterize the amount of exposure deemed safe for the public.

NAAQS have been set for a number of criteria pollutants. The following is a brief description of health effects and whether the MDAB is or is not in attainment for these pollutants:

Ozone (O_3) is a strong-smelling, pale blue, reactive, toxic chemical gas consisting of three oxygen atoms. It is a secondary pollutant formed in the atmosphere by a photochemical process involving the sun's energy and O3 precursors. These precursors are mainly oxides of nitrogen (NOx) and volatile organic compounds (VOCs) (also referred to as reactive organic gases [ROG]). The maximum effects of precursor emissions on O3 concentrations usually occur several hours after they are emitted and many miles from the source. Meteorology and terrain play major roles in O3 formation, and ideal conditions occur during summer and early autumn on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. The O3 that the U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (CARB) regulate as a criteria air pollutant is produced close to ground level, where people live, exercise, and breathe. Ground-level O3 is a harmful air pollutant that causes numerous adverse health effects and is thus considered "bad" O3. Stratospheric, or "good," O3 occurs naturally in the upper atmosphere, where it reduces the amount of ultraviolet light (i.e., solar radiation) entering the Earth's atmosphere. Without the protection of the beneficial stratospheric O3 layer, plant and animal life would be seriously harmed Pollutants emitted in the Los Angeles area contribute to the ozone levels experienced in the MDAB.

Data summarized in Table 2 shows that the 1-hour State ozone standard was exceeded between 0 and 8 days per year between 2015 and 2019 at the Victorville air monitoring site, the closest monitoring station to the Project Site. The MDAB is designated as a nonattainment basin for ozone. The 8-hour Ozone standard has been exceeded between 17 to 55 days per year between 2015 and 2019.

Table 2
Ozone Data: Victorville Air Monitoring Station
2015 – 2019

Year	Days Exceeding 1-Hour State Standard	Days Exceeding 8-Hour State Standard	Maximum 1-Hour Reading (ppm)	Maximum 8-Hour Reading (ppm)
2015	8	38	0.132	0.105
2016	4	33	0.100	0.085
2017	0	17	0.088	0.081
2018	5	55	0.107	0.096
2019	3	29	0.104	0.081

Source: CARB, 2020

Carbon Monoxide (CO) CO is a colorless, odorless gas formed by the incomplete combustion of hydrocarbon, or fossil fuels. CO is emitted almost exclusively from motor vehicles, power plants, refineries, industrial boilers, ships, aircraft, and trains. In urban areas, automobile exhaust accounts for most CO emissions. CO is a nonreactive air pollutant that dissipates relatively quickly; therefore, ambient CO concentrations generally follow the spatial and temporal distributions of vehicular traffic. CO concentrations are influenced by local meteorological

conditions—primarily wind speed, topography, and atmospheric stability. CO from motor vehicle exhaust can become locally concentrated when surface-based temperature inversions are combined with calm atmospheric conditions, which is a typical situation at dusk in urban areas from November to February. The highest levels of CO typically occur during the col der months of the year, when inversion conditions are more frequent.

CO is harmful because it binds to hemoglobin in the blood, reducing the ability of blood to carry oxygen. This interferes with oxygen delivery to the body's organs. The most common effects of CO exposure are fatigue, headaches, confusion and reduced mental alertness, light-headedness, and dizziness due to inadequate oxygen delivery to the brain. For people with cardiovascular disease, short-term CO exposure can further reduce their body's already compromised ability to respond to the increased oxygen demands of exercise, exertion, or stress. Inadequate oxygen delivery to the heart muscle leads to chest pain and decreased exercise tolerance. Unborn babies whose mothers experience high levels of CO exposure during pregnancy are at risk of adverse developmental effects.

Nitrogen dioxide (NO_2) NO2 is a brownish, highly reactive gas that is present in all urban atmospheres. The major mechanism for the formation of NO2 in the atmosphere is the oxidation of the primary air pollutant nitric oxide (NO), which is a colorless, odorless gas. NOx, which includes NO2 and NO, plays a major role, together with VOC, in the atmospheric reactions that produce O3. NOx is formed from fuel combustion under high temperature or pressure. In addition, NO2 is an important precursor to acid rain and may affect both terrestrial and aquatic ecosystems. The two major emissions sources are transportation and stationary fuel combustion sources (such as electric utility and industrial boilers).

A large body of health science literature indicates that exposure to NO2 can induce adverse health effects. The strongest health evidence, and the health basis for the ambient air quality standards (AAQS) for NO2, results from controlled human exposure studies that show that NO2 exposure can intensify responses to allergens in allergic asthmatics. In addition, several epidemiological studies have demonstrated associations between NO2 exposure and premature death, cardiopulmonary effects, decreased lung function growth in children, respiratory symptoms, emergency room visits for asthma, and intensified allergic responses. Infants and children are particularly at risk because they have disproportionately higher exposure to NO2 than adults due to their greater breathing rate for their body weight and their typically greater outdoor exposure duration. Several studies have shown that long-term NO2 exposure during childhood, the period of rapid lung growth, can lead to smaller lungs at maturity in children with higher compared to lower levels of exposure. In addition, children with asthma have a greater degree of airway responsiveness compared with adult asthmatics. In adults, the greatest risk is to people who have chronic respiratory diseases, such as asthma and chronic obstructive pulmonary disease.

Particulate Matter pollution consists of very small liquid and solid particles floating in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter can form when gases emitted from industries and motor vehicles undergo chemical reactions in the atmosphere. $PM_{2.5}$ and PM_{10} represent fractions of particulate matter. Coarse particulate matter (PM_{10}) is about 1/7 the thickness of a human hair. Major sources of PM_{10} include crushing or grinding operations; dust stirred up by vehicles traveling on roads; wood-burning stoves and fireplaces;

dust from construction, landfills, and agriculture; wildfires and brush/waste burning; industrial sources; windblown dust from open lands; and atmospheric chemical and photochemical reactions. Fine particulate matter ($PM_{2.5}$) is roughly 1/28 the diameter of a human hair. $PM_{2.5}$ results from fuel combustion (e.g., from motor vehicles, power generation, and industrial facilities), residential fireplaces, and woodstoves. In addition, $PM_{2.5}$ can be formed in the atmosphere from gases such as sulfur oxides, NOx, and VOCs.

A number of adverse health effects have been associated with exposure to both $PM_{2.5}$ and PM_{10}. For $PM_{2.5}$, short-term exposures (up to 24-hour duration) have been associated with premature mortality, increased hospital admissions for heart or lung causes, acute and chronic bronchitis, asthma attacks, emergency room visits, respiratory symptoms, and restricted activity days. These adverse health effects have been reported primarily in infants, children, and older adults with preexisting heart or lung diseases. In addition, of all of the common air pollutants, $PM_{2.5}$ is associated with the greatest proportion of adverse health effects related to air pollution, both in the United States and worldwide based on the World Health Organization's Global Burden of Disease Project. Short-term exposures to PM_{10} have been associated primarily with worsening of respiratory diseases, including asthma and chronic obstructive pulmonary disease, leading to hospitalization and emergency department visits.

Long-term exposure (months to years) to $PM_{2.5}$ has been linked to premature death, particularly in people who have chronic heart or lung diseases, and reduced lung function growth in children. The effects of long-term exposure to PM_{10} are less clear, although several studies suggest a link between long-term PM_{10} exposure and respiratory mortality. The International Agency for Research on Cancer published a review in 2015 that concluded that particulate matter in outdoor air pollution causes lung cancer.

Data summarized in Table 3 shows that PM_{10} levels at the Victorville air monitoring site has been exceeded between 0 to 2 days per year between 2015 and 2019, while insufficient data was available to determine whether the State Standard was exceeded during the same time period.

Table 3
PM_{10} Data: Victorville Air Monitoring Station
2015 – 2019

Year	Days Exceeding State Standard	Days Exceeding Federal Standard	Maximum 24-Hour Reading ($\mu g/m^3$)
2015	*	0	96.1
2016	*	2	226.5
2017	*	1	182.5
2018	*	1	165.2
2019	*	2	170.0

Source: CARB, 2020
State Standard – 50 $\mu g/m^3$ based on 24-hour average
Federal Standard – 150 $\mu g/m^3$ based on 24-hour average
$\mu g/m^3$ = micrograms per cubic meter
Measurements usually taken every 6 days.
* Insufficient data available to determine the value

The data summarized in Table 4 shows that $PM_{2.}$ levels at the Victorville air monitoring site has been exceeded between 0 to 1 days per year between 2015 and 2019.

Table 4
$PM_{2.5}$ Data: Victorville Air Monitoring Station
2015 – 2019

Year	Days Exceeding Federal Standard	Maximum 24-Hour Reading ($\mu g/m^3$)
2015	*	50.2
2016	1	41.5
2017	0	27.2
2018	0	32.7
2019	0	17.8

Source: CARB, 2020
Federal Standard – lowered to 35 $\mu g/m^3$ in 2006; based on 24 hour average.
$\mu g/m^3$ = micrograms per cubic meter
* Insufficient data available to determine the value

Sulfur dioxide (SO_2) is a gas produced when fossil fuels are burned. SO_2 is the main pollutant contributing to the formation of acid rain. No exceedances of this pollutant have occurred for decades and concentrations are well under Federal and State standards.

Lead (Pb) Lead in the atmosphere occurs as particulate matter. Sources of lead include leaded gasoline; the manufacturing of batteries, paints, ink, ceramics, and ammunition; and secondary lead smelters. Prior to 1978, mobile emissions were the primary source of atmospheric lead. Between 1978 and 1987, the phase out of leaded gasoline reduced the overall inventory of airborne lead by nearly 95%. With the phase out of leaded gasoline, secondary lead smelters, battery recycling, and manufacturing facilities are becoming lead-emissions sources of greater concern.

Prolonged exposure to atmospheric lead poses a serious threat to human health. Health effects associated with exposure to lead include gastrointestinal disturbances, anemia, kidney disease, and, in severe cases, neuromuscular and neurological dysfunction. Of particular concern are low-level lead exposures during infancy and childhood, as children are highly susceptible to the effects of lead. Such exposures are associated with decrements in neurobehavioral performance, including intelligence quotient performance, psychomotor performance, reaction time, and growth.

Hydrogen Sulfide (H_2S) This pollutant is not commonly found in the ambient atmosphere but can originate from natural sources such as volcanoes, sulfur hot springs, or mineral brine associated with dry lakebeds. The CAAQS for H_2S is not health-based but rather an aesthetic one, because the compound smells like rotten eggs. This pollutant is not an issue in the project area.

Sulfates are produced by the reaction in the air of sulfur dioxide (SO_2), which is a component of acid rain. Sources for sulfur dioxide include coal burning power plants and diesel engines.

California does not have any coal burning power plants and all diesel fuels sold in the state are now lower in sulfur. Sulfates are not an issue in the area.

Visibility-reducing particles are common in the MDAB due to the vast open desert area, especially during windy conditions. Particles reduce visibility, obscuring the desert scenery, including views of the mountains. Dust control measures reduce particulates in the area.

Volatile Organic Compounds. Hydrocarbons are organic gases that are formed from hydrogen and carbon and sometimes other elements. Hydrocarbons that contribute to formation of O3 are referred to and regulated as VOCs. Combustion engine exhaust, oil refineries, and fossil-fueled power plants are the main sources of hydrocarbons. Other sources of hydrocarbons include evaporation from petroleum fuels, solvents, dry cleaning solutions, and paint.

The primary health effects of VOCs result from the formation of O_3 and its related health effects. High levels of VOCs in the atmosphere can interfere with oxygen intake by reducing the amount of available oxygen through displacement. Carcinogenic forms of hydrocarbons, such as benzene, are considered TACs. There are no separate health standards for VOCs as a group.

Air Quality Attainment Plans

The MDAQMD has local regulatory review and primary permitting and enforcement authority over potential stationary sources of air pollution within the Mojave Desert portions of San Bernardino County, including all cities and towns. The EPA and CARB serve as technical review and advisory agencies, providing technical advice and guidance when necessary.

The MDAB is a designated nonattainment basin for ozone. In 1991 San Bernardino County Air Pollution Control District (APCD) prepared the Air Quality Attainment Plan (AQAP) for ozone. This plan established programs and control strategies to achieve the ozone standards and to maintain attainment of the other criteria pollutants. Measures in the 1991 AQAP include an updated permitting program for stationary pollution sources, reasonable control technology for all existing and future sources, provisions to develop area and indirect control programs such as land use and transportation measures and public education programs. In 1993 the APCD was separated from the County under State Assembly Bill 2522, and an autonomous agency – the MDAQMD – was created that encompassed the High Desert region of San Bernardino County.

In 1994, the EPA designated most of the Mojave Desert as nonattainment for PM_{10} based on violations of standards between 1989 and 1991. The MDAQMD prepared the Mojave Desert Planning Area (MDPA) Federal PM_{10} Attainment Plan in 1995 to provide dust control programs to meet federal PM_{10} standards. The MDPA covers only the southwestern portions of the Mojave Desert (Victor Valley and Lucerne Valley areas) because most of the controllable sources and receptors of PM_{10} and recording instrumentation are located in the Victor Valley. The plan outlines a program for implementation and enforcement of dust control measures. These measures are generally reflected through MDAQMD Rules 401 - Visible Emissions, 402 - Nuisance, and 403-1 - Fugitive Dust Control.

Nonattainment Designations and Classification Status

The USEPA and the CARB have designated portions of the MDAQMD as nonattainment for a variety of pollutants, and some of those designations have an associated classification. Table 5 lists these designations and classifications.

The MDAQMD has adopted attainment plans for a variety of nonattainment pollutants. Table 6 lists the attainment plans applicable to the project area.

Table 5
State and Federal Air Quality
Designations and Classifications for MDAQMD

Ambient Air Quality Standard	Status
One-hour Ozone (Federal) – (has been revoked)	Proposed attainment in 2014; historical classification Severe-17 (portion of MDAQMD outside of Southeast Desert Modified AQMA is unclassified/attainment)
Eight-hour Ozone (Federal)	Subpart 2 Nonattainment; classified Severe-15 (portion of MDAQMD outside of Western Mojave Desert Ozone Nonattainment Area is unclassifiable/attainment)
Ozone (State)	Non-attainment; classified Moderate
Eight-hour Ozone (Federal 75 ppb (2008))	Nonattainment, classified Severe-15
Eight-hour Ozone (Federal 70 ppb (2015))	Expected nonattainment; classification to be determined
PM_{10} (Federal)	Non-attainment; classified Moderate (portion of MDAQMD in Riverside County is attainment)
PM2.5 Annual (Federal)	Unclassified/attainment
$PM_{2.5}$ (Federal)	Unclassified/attainment
$PM_{2.5}$ (State)	Nonattainment (portion of MDAQMD outside of Western Mojave Desert Ozone Nonattainment Area is unclassified/attainment)
PM_{10} (State)	Non-attainment
Carbon Monoxide (State and Federal)	Attainment/unclassified
Nitrogen Dioxide (State and Federal)	Attainment/unclassified
Sulfur Dioxide (State and Federal)	Attainment/unclassified
Lead (State and Federal)	Attainment/unclassified
Particulate Sulfate (State)	Attainment
Hydrogen Sulfide (State)	Unclassified (Searles Valley Planning Area is non-attainment)
Visibility Reducing Particles (State)	Unclassified

Source: MDAQMD CEQA and Federal Conformity Guidelines, August 2016.

Table 6
MDAQMD Attainment Plans

Name of Plan	Date of Adoption	Applicable Area	Pollutant(s) Targeted	Attainment Date
1991 Air Quality Attainment Plan (AQAP)	August 26, 1991	San Bernardino County portion	NO_x and VOC	1994*
Mojave Desert Planning Area Federal Particulate Matter Attainment Plan	July 31, 1995	Mojave Desert Planning Area	PM_{10}	2000*
Triennial Revision to the 1991 Air Quality Attainment Plan	January 22, 1996	Entire District	NO_x and VOC	2005
2004 Ozone Attainment Plan (State and Federal)	April 26, 2004	Entire District	Ozone (NO_x and VOC)	2007
Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-attainment Area)	9-Jun-08	Western Mojave Desert Non-attainment Area	NOx and VOC	2019 (revised from 2021)

*Note: A historical attainment date given in an attainment plan does not necessarily mean that the affected area has been re-designated to attainment.
Source: MDAQMD CEQA and Federal Conformity Guidelines, August 2016

MDAQMD regulates emissions from stationary sources through the permitting process and requires permits to Construct/Operate for all stationary equipment with the potential to release air contaminants.

Climate Change and Greenhouse Gases

Gases that trap heat in the atmosphere are often called Greenhouse Gases (GHG) and are analogous to an effects of a greenhouse. GHGs are emitted by natural processes and human activities. The accumulation of GHGs in the atmosphere helps regulate the earth's temperature. Without these natural GHGs, the Earth's surface would be approximately 60°F cooler (EPA 2017). Emissions from human activities such as electricity production and vehicles have elevated the concentration of these gases in the atmosphere.

GHGs have varying global warming potential (GWP). A GWP is a "quantified measure of the globally averaged relative radiative forcing impacts of a particular greenhouse gas, defined as the accumulated radiative forcing within a specific time horizon caused by emitting one kilogram of the gas, relative to that of the reference gas" (EPA 2017). The reference gas for GWP is carbon dioxide; carbon dioxide has a GWP of one. For example, methane has a GWP of 21, which means that it has a greater global warming effect than carbon dioxide on a molecule per molecule basis. One teragram of carbon dioxide equivalent (Tg CO2 Eq.) is the emissions of the gas multiplied by the GWP. One teragram is equal to one million metric tons. The carbon dioxide equivalent is a good way to assess emissions because it gives weight to the GWP of the gas. The lifetime and GWP of selected GHG are summarized in Table 7. As shown in the table, GWP for a 100-year time horizon ranges from one (carbon dioxide) to 23,500 (sulfur hexafluoride).

Table 7
Global Warming Potentials and Atmospheric Lifetimes of Select Greenhouse Gases

Gas	Lifetime (years)	Global Warming Potential (100-year time horizon)
Carbon Dioxide	*	1
Methane	12.4†	28
Nitrous Oxide	121†	265
HFC-23	222	12,400
HFC-134a	13.4	1,300
HFC-152a	1.5	138
PFC-14: Tetrafluoromethane (CF4)	50,000	6,630
PFC-116: Hexafluoroethane (C2F6)	10,000	11,100
Sulfur Hexafluoride (SF6)	3,200	23,500

Source: IPCC 2013
* No single lifetime can be given.
† Perturbation lifetime is used in calculation of metrics, not the lifetime of the atmospheric burden.

Water vapor is the most abundant, important, and variable GHG in the atmosphere. It is not considered a pollutant; in the atmosphere it maintains a climate necessary for life. The main source of water vapor is evaporation from the oceans (approximately 85 percent). Other sources include evaporation from other water bodies, sublimation (change from solid to gas) from ice and snow, and transpiration from plant leaves.

Carbon dioxide (CO_2) is an odorless, colorless natural GHG. Natural sources include the following: decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Carbon dioxide is the primary greenhouse gas emitted through human activities and anthropogenic sources of carbon dioxide are from burning coal, oil, natural gas, and wood. Concentrations are currently around 400 ppm; some say that concentrations may increase to 540 ppm by 2100 as a direct result of anthropogenic sources (IPCC 2001). Some predict that this will result in an average global temperature rise of at least 2° Celsius (IPCC 2001).

Methane is a flammable gas and is the main component of natural gas. When one molecule of methane is burned in the presence of oxygen, one molecule of carbon dioxide and two molecules of water are released. There are no health effects from methane. A natural source of methane is from the anaerobic decay of organic matter. Geological deposits known as natural gas fields contain methane, which is extracted for fuel. Other sources are from landfills, fermentation of manure, and cattle.

Nitrous oxide (N_2O), also known as laughing gas, is a colorless GHG. Higher concentrations can cause dizziness, euphoria, and sometimes slight hallucinations. Nitrous oxide is produced by microbial processes in soil and water, including those reactions which occur in fertilizer

containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its atmospheric load. It is used in rocket engines, as an aerosol spray propellant, and in race cars.

Chlorofluorocarbons (CFCs) are gases formed synthetically by replacing all hydrogen atoms in methane or ethane with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the earth's surface). CFCs were first synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning solvents. They destroy stratospheric ozone; therefore, their production was stopped as required by the Montreal Protocol.

Black Carbon. Black carbon is a component of fine particulate matter, which has been identified as a leading environmental risk factor for premature death. It is produced from the incomplete combustion of fossil fuels and biomass burning, particularly from older diesel engines and forest fires. Black carbon warms the atmosphere by absorbing solar radiation, influences cloud formation, and darkens the surface of snow and ice, which accelerates heat absorption and melting. Black carbon is a short-lived species that varies spatially, which makes it difficult to quantify the global warming potential. Diesel particulate matter emissions are a major source of black carbon and are toxic air contaminants that have been regulated and controlled in California for several decades to protect public health. In relation to declining diesel particulate matter from the California Air Resources Board's (CARB's) regulations pertaining to diesel engines, diesel fuels, and burning activities, CARB estimates that annual black carbon emissions in California have reduced by 70% between 1990 and 2010, with 95% control expected by 2020 (CARB 2014).

Fluorinated Gases. Fluorinated gases (also referred to as F-gases) are synthetic powerful GHGs emitted from many industrial processes. Fluorinated gases are commonly used as substitutes for stratospheric ozone-depleting substances (e.g., CFCs, hydrochlorofluorocarbons [HCFCs], and halons). The most prevalent fluorinated gases include the following:

> *Hydrofluorocarbons (HFCs)* are synthetic man-made chemicals that are used as a substitute for CFCs for automobile air conditioners and refrigerants.
>
> *Perfluorocarbons (PFCs)* have stable molecular structures and do not break down though the chemical processes in the lower atmosphere. High-energy ultraviolet rays about 60 kilometers above Earth's surface are able to destroy the compounds. PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane and hexafluoroethane. Concentrations of tetrafluoromethane in the atmosphere are over 79 ppt (IPCC 2013). The two main sources of PFCs are primary aluminum production and semiconductor manufacture.
>
> *Sulfur hexafluoride (SF6)* is an inorganic, odorless, colorless, nontoxic, nonflammable gas. It also has the highest GWP (23,500) of any gas evaluated. Concentrations in 2011 were about 7.3 ppt, while concentrations in 2005 were about 5.6 ppt (EPA 2013). Sulfur hexafluoride is used for insulation in electric power transmission and distribution

equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.

Nitrogen Trifluoride: NF3 is used in the manufacture of a variety of electronics, including semiconductors and flat panel displays.

Ozone found in the troposphere is considered a GHG; however, unlike the other GHG, ozone in the troposphere is relatively short-lived and therefore is not global in nature. Ozone is not directly emitted into the air but is formed through chemical reactions between precursor emissions of reactive organic gases (ROG) and nitrogen oxides (NO_X) in the presence of sunlight. It is difficult to make an accurate determination of the contribution of ozone precursors (nitrogen oxides and volatile organic compounds) to climate change (CARB 2004).

Aerosols are particles emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light. Cloud formation can also be affected by aerosols. Sulfate aerosols are emitted when fuel with sulfur in it is burned. Black carbon (or soot) is emitted during biomass burning incomplete combustion of fossil fuels. Particulate matter regulation has been lowering aerosol concentrations in the United States; however, global concentrations are likely increasing.

Assembly Bill 32

In 2006, the California State Legislature adopted Assembly Bill 32 (AB 32), the California Global Warming Solutions Act of 2006. AB 32 requires CARB, to adopt rules and regulations that would achieve GHG emissions equivalent to statewide levels in 1990 by 2020 through an enforceable statewide emission cap which was phased in starting in 2012. On January 1, 2017 AB 32 was revised to include a statewide GHG emission reduction of 40 percent below the state GHG emissions limit no later than December 31, 2020.

Senate Bill (SB) 32 and AB 197.

SB 32 and AB 197 (enacted in 2016) are companion bills. SB 32 codified the 2030 emissions reduction goal of EO B-30-15 by requiring CARB to ensure that statewide GHG emissions are reduced to 40% below 1990 levels by 2030. AB 197 established the Joint Legislative Committee on Climate Change Policies, consisting of at least three members of the Senate and three members of the Assembly, in order to provide ongoing oversight over implementation of the state's climate policies. AB 197 also added two members of the Legislature to the CARB Board as nonvoting members; requires CARB to make available and update (at least annually via its website) emissions data for GHGs, criteria air pollutants, and TACs from reporting facilities; and requires CARB to identify specific information for GHG emissions reduction measures when updating the Scoping Plan.

City of Hesperia

The City has established a goal to reduce its community wide GHG to reduce per capita GHG emissions 29% below business as usual by 2020. The City's community wide GHG emissions inventory for baseline year 2009 is presented in Table 8.

Table 8
City of Hesperia (Year 2009)
Communitywide Greenhouse Gas Emissions Inventory

Community Sector	Total MT CO2e/year	CO2e (%)[1]
Transportation: Passenger Vehicles	199,414	31%
Transportation: Trucks	20,392	31%
Transportation: Other	7,454	1%
Electricity	34,507	5%
Natural Gas	135,824	21%
Solid Waste	28,394	4%
Wood Burning Fireplaces and Stoves	9,528	2%
Refrigerants	23,906	4%
Total	**639,419**	**100%**

Source: City of Hesperia-Climate Action Plan.
Note: GHG = greenhouse gas; MT CO2e = metric tons of carbon dioxide equivalent per year
[1] Totals may not sum due to rounding

As shown on Table 8, approximately 63% of the City's GHG emissions in 2009 were attributed to transportation sources with the next highest attributed to electricity, which accounted for approximately 21%. All other sources each accounted for less than 5% of the City's GHG emissions in 2009.

General Plan

The City of Hesperia General Plan contains the following goals and policies applicable to air quality and the Project, City of Hesperia 2010:

Goal CN-8 Implement policies and measures to reduce air pollution and emissions of pollutants.

- Policy CN-8.1 Implement measures to reduce fugitive dust from unpaved areas, parking lots, and construction sites.
- Policy CN-8.2 Implement measures to reduce exhaust emissions from construction equipment.
- Policy CN-8.5 Minimize exposure of sensitive receptor land uses and sites to health risks related to air pollution.

Policies pertaining to reducing GHGs are addressed in the Conservation Element of the General Plan. The following policies from the Conservation Element are applicable to the Project:

Goal CN-1 Conserve water resources within the Upper Mojave River Groundwater Basin.

- Policy CN-1.1 Promote the use of desert vegetation with low water usage and drought tolerant materials in landscaped areas.
- Policy CN-1.6 Encourage the use of low-water consumption fixtures in homes and businesses.

Goal CN-2 Establish building and development standards to maximize the reclamation of water resources.

- Policy CN-2.2 Encourage the use of reclaimed water for irrigation and other non-potable uses.

Goal CN-6 Provide programs and incentives to encourage residents, businesses and developers to reduce consumption and efficiently use energy resources.

- Policy CN-6.2 Encourage the use of green building standards and Leadership in Energy and Environmental Design (LEED) or similar programs in both private and public projects.

Goal CN-7 Develop, promote and implement policies to reduce and limit GHG emissions.

- Policy CN-7.4 Promote the utilization of alternative energy resources such as wind and solar in new development.
- Policy CN-7.5 Promote the utilization of environmentally sensitive construction materials to limit impacts on the ozone, global climate change and mineral resources.
- Policy CN-7.7 Promote energy conservation through site layout, building design, natural light and efficient mechanical and electrical products in development.
- Policy CN-7.8 Continue the existing recycling program and utilization of the material recovery facility program while exploring additional methods of reducing waste.
- Policy CN-7.9 Promote sustainable principles in development that conserves such natural resources as air quality and energy resources.

Climate Action Plan

On July 20, 2010, the City of Hesperia adopted the Climate Action Plan (CAP), which provides a framework for reducing GHG emissions and managing resources to best prepare for a changing climate. The CAP recommends GHG emissions targets that are consistent with the reduction targets of the State of California and presents a number of strategies that will make it possible for

the City to meet the recommended targets. Strategy CAP-1 specifies "projects that are consistent with this CAP could result in less than significant impacts regarding climate change." This is because emissions from these projects are generally accounted for in this CAP and would be consistent with this CAP reduction target. To be consistent with this CAP, CEQA projects must implement the applicable implementation strategies listed in Section 4.2 of the CAP. Per CAP Implementation Action 1.5 (CAP-1.5), projects that require a discretionary approval shall reduce operational GHG emissions by at least 12%, without accounting for regulations discussed in the CAP.

Health and Other Effects

The potential health effects from global climate change may arise from temperature increases, climate-sensitive diseases, extreme events, and air quality. There may be direct temperature effects through increases in average temperature leading to more extreme heat waves and less extreme cold spells. Those living in warmer climates are likely to experience more stress and heat-related problems (i.e., heat rash and heat stroke). In addition, climate-sensitive diseases may increase, such as those spread by mosquitoes and other disease carrying insects. Those diseases include malaria, dengue fever, yellow fever, and encephalitis. Extreme events such as flooding and hurricanes can displace people and agriculture, which would have negative consequences. Drought in some areas may increase, which would decrease water and food availability. Global climate change may also contribute to air quality problems from increased frequency of smog and particulate air pollution (EPA 2006).

3.0 AIR QUALITY IMPACT EVALUATION

3.1 STANDARDS OF SIGNIFICANCE

To determine if a proposed project has the potential to significantly impact the ambient air quality, the MDAQMD utilizes the following net daily emission increases as CEQA thresholds of significance. If the potential emissions exceed these thresholds, then the project may have a significant air quality impact and requires additional analysis.

- Carbon Monoxide (CO) 548 lbs/day
- Nitrogen Dioxide (NO_2) 137 lbs/day
- Reactive Organic Gasses (ROG) 137 lbs/day
- Sulfur Dioxide (SO_2) 137 lbs/day
- Particulate Matter (PM_{10}) 82 lbs/day
- Particulate Matter ($PM_{2.5}$) 82 lbs/day
- Greenhouse Gas Emissions 100,000 tons per year CO_2E, or approximately 90,718 MT CO2e per year (MDAQMD 2016).

3.2 CONSTRUCTION AIR QUALITY EVALUATION

The proposed development would occur on approximately 78 acres of land. Construction-related emissions generated by the Proposed Project would be from short-term construction activities. The Proposed Project was screened using CalEEMod version 2016.3.2. The criteria pollutants

and Greenhouse Gases (GHGs) analyzed include reactive organic gases (ROG), nitrous oxides (NO_x), carbon monoxide (CO), sulfur dioxide (SO_2), particulates (PM_{10} and $PM_{2.5}$), carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O). Construction emissions are screened and quantified to document the effectiveness of control measures.

The CalEEMod model allows the user to set certain defaults and run the model to incorporate MDAQMD required rules and regulations. Therefore, per MDAQMD Rules 403-1, the mitigation requiring that exposed surfaces during construction be watered twice per day was "turned on". The developer and its contractor will be required to comply with mandated MDAQMD rules and regulations, including but not limited to Rule 403-1. Therefore, the following dust control conditions applicable to the Project Site activities as recommended by Rule 403-1 shall also be implemented:

1. The Project Proponent shall ensure that any portion of the site to be graded shall be pre-watered prior to the onset of grading activities.

    (a) The Project Proponent shall ensure that watering of the site or other soil stabilization method shall be employed on an on-going basis after the initiation of any grading activity on the site at least twice daily. Portions of the site that are actively being graded shall be watered regularly to ensure that a crust is formed on the ground surface and shall be watered at the end of each workday.

    (b) The Project Proponent shall ensure that all disturbed areas are treated to prevent erosion until the site is constructed upon.

    (c) The Project Proponent shall ensure that landscaped areas are installed as soon as possible to reduce the potential for wind erosion.

    (d) The Project Proponent shall ensure that all grading activities are suspended during first and second stage ozone episodes or when winds exceed 25 miles per hour.

During construction, exhaust emissions from construction vehicles and equipment and fugitive dust generated by equipment traveling over exposed surfaces, would increase NO_X and PM_{10} levels in the area. The following Best Management Practices shall be implemented to reduce emissions:

2. To reduce emissions, all equipment used in grading and construction must be tuned and maintained to the manufacturer's specification to maximize efficient burning of vehicle fuel. Site development will be limited to one acre disturbed per day.
3. The contractor shall utilize (as much as possible) pre-coated building materials and coating transfer or spray equipment with high transfer efficiency, such as high volume, low pressure (HVLP) spray method, or manual coatings application such as paint brush, hand roller, trowel, dauber, rag, or sponge.
4. The contractor shall utilize water-based or low VOC coating per MDAQMD Rule 1113. The following measures shall also be implemented:
    - Use Super-Compliant VOC paints whenever possible.

- If feasible, avoid painting during peak smog season: July, August, and September.
- Recycle leftover paint. Take any left-over paint to a household hazardous waste center; do not mix leftover water-based and oil-based paints.
- Keep lids closed on all paint containers when not in use to prevent VOC emissions and excessive odors.
- For water-based paints, clean up with water only. Whenever possible, do not rinse the clean-up water down the drain or pour it directly into the ground or the storm drain. Set aside the can of clean-up water and take it to a hazardous waste center (www.cleanup.org).
- Recycle the empty paint can.
- Look for non-solvent containing stripping products.
- Use Compliant Low-VOC cleaning solvents to clean paint application equipment.
- Keep all paint and solvent laden rags in sealed containers to prevent VOC emissions.

5. The Project Proponent shall ensure that existing power sources are utilized where feasible via temporary power poles to avoid on-site diesel power generation.
6. The Project Proponent shall ensure that construction personnel are informed of ride sharing and transit opportunities.
7. All buildings on the project site shall conform to energy use guidelines in Title 24 of the California Administrative Code as updated to reduce energy consumption and reduce GHG emissions.
8. The operator shall maintain and effectively utilize and schedule on site equipment and delivery trucks in order to minimize exhaust emissions from truck idling.

Modeled Analysis

The emissions calculations for the construction phase of the Proposed Project includes fugitive dust from grading and exhaust emissions from on-site equipment and worker travel and are summarized in Table 9 and Table 10, which represent summer and winter construction emissions, respectively. The fugitive dust emissions are based on earthwork activities per day. The proposed construction activities will include implementation of the "best available fugitive dust control requirements" listed above and the developer will comply with MDAQMD rules and regulations (particularly Rule 403) that require controls for fugitive dust. These standard conditions will reduce emissions to the lowest amounts feasible. Construction emissions were screened and quantified to document the effectiveness of control measures. For additional information, refer to Appendix A for the CalEEMod emissions model output data.

Table 9
Summer Construction Emissions
(Pounds Per Day)

Source/Phase	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Site Preparation	4.0	40.5	21.2	0.0	20.2	11.8
Grading	3.6	38.8	29.6	0.0	10.5	5.1
Building Construction	8.5	70.5	67.3	0.0	16.5	5.0
Paving	1.6	8.5	14.7	0.0	0.5	0.3
Architectural Coating	135.2	1.4	7.2	0.0	2.4	0.6
Highest Value (lbs/day)	**135.2**	**40.5**	**67.3**	**0.0**	**20.2**	**11.8**
MDAQMD Threshold	137	137	548	137	82	82
Significant	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod 2016.3.2, Summer Emissions
Phases don't overlap and represent the highest concentration.

Table 10
Winter Construction Emissions
(Pounds Per Day)

Source/Phase	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Site Preparation	3.9	40.5	21.2	0.0	20.2	11.8
Grading	4.2	46.3	31.3	0.0	10.7	5.4
Building Construction	8.5	70.1	62.1	0.0	15.7	5.0
Paving	1.6	8.5	14.7	0.0	0.5	0.4
Architectural Coating	135.2	1.4	7.2	0.0	2.4	0.6
Highest Value (lbs/day)	**135.2**	**40.5**	**67.3**	**0.0**	**20.2**	**11.8**
MDAQMD Threshold	137	137	548	137	82	82
Significant	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod 2016.3.2, Winter Emissions
Phases don't overlap and represent the highest concentration.

As shown in Table 9 and Table 10, construction emissions during either summer or winter seasonal conditions would not exceed MDAQMD thresholds as long as the applicant implements at a minimum a 187-day painting schedule. It is anticipated that the applicant will build the project in phases. Therefore, impacts would be less than significant. However, to ensure impacts do not exceed thresholds, the following construction schedule is recommended during the painting phase:

- *The applicant shall implement at a minimum a 187-day paining schedule.*

Greenhouse Gas Emissions

Greenhouse gas (GHG) emissions are cumulative in nature, in that, no one single project can measurably contribute to climate change and its affects (global average change in temperature, rising sea levels etc.). The direct or indirect GHG impacts are therefore not evaluated on a local level, but whether or not the GHG emissions resulting from the project are cumulative; that is, they add considerably to an increase in GHGs as compared to the existing environmental setting based on: 1) an established significance threshold(s); or 2) The extent to which the project

complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of greenhouse gas emissions.

AB 32 defines seven (7) major GHGs that are emitted into the atmosphere, the first three are both biogenic (occur naturally in the environment) and anthropogenic (are man-made), through the burning of fossil fuels, the decay of organic waste in landfills etc. and they include carbon dioxide (CO_2), methane (CH_4) and nitrous oxide (N_2O). The other four, known as Fluorinated gases (Hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride) are synthetic (made artificially by chemical processes). The Proposed Project would not generate Fluorinated gases as defined by AB 32, only the GHGs (CO_2, CH_4, and N_2O) that are emitted by construction equipment. Therefore, GHG emissions from CO_2, CH_4, and N_2O are modeled. Results for GHG emissions related to construction of the Proposed Project are shown in Table 11.

Table 11
Greenhouse Gas Construction Emissions
(Metric Tons Per Year)

Source/Phase	CO_2	CH_4	N_20
Site Preparation	103.9	0.0	0.0
Grading	202.0	0.0	0.0
Building Construction	2,321.2	0.1	0.0
Paving	114.3	0.0	0.0
Architectural Coating	71.7	0.0	0.0
Total Max (MTCO2e)	3,317.7		
Amortized over 30 years	**110.6**		
MDAQMD Threshold (MT)	90,718		
Significant	**No**		

Source: CalEEMod 2016.3.2, Annual Emissions

Model results for GHG emissions related to construction of the Proposed Project as shown in Table 11 do not exceed the MDAQMD thresholds and therefore would not result in a significant impact. No mitigation measures are required.

3.3 OPERATIONAL AIR QUALITY EVALUATION

Operational emissions are categorized as energy (generation and distribution of energy to the end use), area (operational use of the project), mobile (vehicle trips), water (generation and distribution of water to the land use), and waste (collecting and hauling waste to the landfill). The operational mobile source emissions were calculated in accordance with the Focused Traffic Impact Analysis prepared for the Proposed Project by Urban Crossroads., in November 2020. The Proposed Project is anticipated to generate approximately 2,150 total daily trips. The anticipated total daily trips were inputted into the CalEEMod Version 2016.3.2 model to estimate the operational mobile source emissions. Emissions associated with the operational activities are listed in Tables 12 through 14.

Table 12
Winter Operational Emissions
(Pounds Per Day)

Source	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Area	29.4	0.0	0.3	0.0	0.0	0.0
Energy	1.5	14.0	11.8	0.0	1.1	1.0
Mobile	3.2	57.7	32.8	0.0	13.9	3.8
Total Value (lbs/day)	**34.2**	**57.7**	**32.9**	**0.0**	**15.0**	**4.8**
MDAQMD Threshold	137	137	548	137	82	82
Significant	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod 2016.3.2, Winter Emissions

Table 13
Summer Operational Emissions
(Pounds Per Day)

Source	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Area	29.4	0.0	0.3	0.0	0.0	0.0
Energy	1.5	14.0	11.8	0.0	1.1	1.0
Mobile	3.2	57.7	32.9	0.2	13.9	3.9
Total Value (lbs/day)	**34.2**	**71.8**	**45.1**	**0.2**	**15.0**	**4.9**
MDAQMD Threshold	137	137	548	137	82	82
Significant	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod 2016.3.2, Summer Emissions

Table 14
Greenhouse Gas Operational Emissions
(Metric Tons Per Year)

Source	CO_2	CH_4	N_2O
Area	0.0	0.0	0.0
Energy	15,841.3	0.6	0.2
Mobile	4,429.5	0.2	0.0
Waste	193.3	11.4	0.0
Water	1,046.0	7.7	0.2
Construction (30 Years Amortized)	110.6		
Total (MTCO2e)	**22,223.1**		
MDAQMD Threshold (tons)	90,718		
Significant	**No**		

Source: CalEEMod 2016.3.2, Annual Emissions

As shown in Tables 12 through 14, operational emissions produced from the Proposed Project would not exceed MDAQMD thresholds and therefore would not result in a significant impact. No mitigation measures are required.

Climate Action Plan

On July 20, 2010, the City of Hesperia adopted a Climate Action Plan (CAP), which provides a framework for reducing GHG emissions and managing resources to best prepare for a changing climate. To be consistent with the City's CAP, CEQA projects must implement the applicable implementation strategies listed in Section 4.2 of the CAP. Per CAP Implementation Action 1.5

(CAP-1.5), projects that require a discretionary approval shall reduce operational GHG emissions by at least 12%, without accounting for regulations discussed in the CAP.

The applicant has proposed to construct and operate a solar field. This solar field is project specific and will provide up to 15% of the project electricity needs. Therefore, the project is in compliance with the City's 12% project specific GHG reduction goal.

3.4 PROJECT CUMULATIVE IMPACT

Development of the Proposed Project will be conditioned to comply with current MDAQMD rules and regulations to minimize impacts to air quality as discussed herein. Additionally, both summer and winter seasonal construction and operational emissions are below the MDAQMD threshold of significance for criteria pollutants. Furthermore, the Proposed Project would not exceed the GHG threshold. Therefore, development of the Proposed Project is not anticipated to generate significant impacts or generate significant emissions. As such, cumulative impacts are anticipated to be less than significant.

4.0 REPORT SUMMARY

Construction and operational emissions from the Proposed Project will not exceed the MDAQMD thresholds of significance. Construction emissions are considered short-term. Potential dust emissions would be further reduced by implementation of standard dust control measures (water exposed surfaces twice per day, etc.) as required for all projects within the MDAB. No impacts to local or regional air quality are anticipated during project operations. The Proposed Project as well as all projects within the MDAB will be required to comply with current MDAQMD rules and regulations as applicable. Therefore, potential impacts from operational activities are determined to be less than significant and no further analysis is required.

5.0 REFERENCES

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APPENDIX A
CALEEMOD MODELING RESULTS

US Cold Storage Hesperia

San Bernardino-Mojave Desert County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	1,012.82	1000sqft	23.25	1,012,816.00	0
Other Non-Asphalt Surfaces	1,028.71	1000sqft	23.62	1,028,706.00	0
Parking Lot	1,360.81	1000sqft	31.24	1,360,814.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Applicant will extend painting period for up to 187 days

Vehicle Trips - Per TIA

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Fleet Mix - Per TIA

US Cold Storage Hesperia - San Bernardino-Mojave Desert County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	110.00	187.00
tblConstructionPhase	PhaseEndDate	2/7/2029	5/25/2029
tblFleetMix	HHD	0.06	0.19
tblFleetMix	LDA	0.56	0.65
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.12
tblFleetMix	LHD2	4.9390e-003	0.00
tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblLandUse	LandUseSquareFeet	1,012,820.00	1,012,816.00
tblLandUse	LandUseSquareFeet	1,028,710.00	1,028,706.00
tblLandUse	LandUseSquareFeet	1,360,810.00	1,360,814.00
tblVehicleTrips	ST_TR	1.68	2.12
tblVehicleTrips	SU_TR	1.68	2.12
tblVehicleTrips	WD_TR	1.68	2.12

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2722	2.8886	1.7809	3.4700e-003	0.9744	0.1329	1.1073	0.4420	0.1222	0.5642	0.0000	304.9781	304.9781	0.0961	0.0000	307.3814
2022	0.8625	7.9227	6.7820	0.0276	1.8105	0.1535	1.9640	0.5271	0.1429	0.6700	0.0000	2,552.9873	2,552.9873	0.2268	0.0000	2,558.6568
2023	0.9383	7.4804	7.5676	0.0357	1.9807	0.1058	2.0865	0.5372	0.0994	0.6367	0.0000	3,312.7778	3,312.7778	0.1980	0.0000	3,317.7270
2024	0.8948	7.4045	7.2691	0.0355	1.9960	0.0952	2.0911	0.5414	0.0894	0.6308	0.0000	3,298.5539	3,298.5539	0.1964	0.0000	3,303.4650
2025	0.8422	7.1795	6.8796	0.0348	1.9883	0.0833	2.0717	0.5393	0.0783	0.6176	0.0000	3,230.7158	3,230.7158	0.1923	0.0000	3,235.5221
2026	0.8111	7.1133	6.5814	0.0342	1.9883	0.0830	2.0713	0.5393	0.0779	0.6173	0.0000	3,181.3752	3,181.3752	0.1893	0.0000	3,186.1086
2027	0.7814	7.0524	6.3183	0.0337	1.9883	0.0824	2.0707	0.5393	0.0774	0.6167	0.0000	3,138.1902	3,138.1902	0.1866	0.0000	3,142.8539
2028	5.8347	2.3602	2.6639	0.0108	0.6192	0.0470	0.6661	0.1674	0.0438	0.2112	0.0000	994.2474	994.2474	0.0853	0.0000	996.3801
2029	7.0987	0.0787	0.3196	1.0000e-003	0.1210	3.2900e-003	0.1243	0.0321	3.2500e-003	0.0354	0.0000	90.0486	90.0486	2.0500e-003	0.0000	90.0999
Maximum	**7.0987**	**7.9227**	**7.5676**	**0.0357**	**1.9960**	**0.1535**	**2.0911**	**0.5414**	**0.1429**	**0.6700**	**0.0000**	**3,312.7778**	**3,312.7778**	**0.2268**	**0.0000**	**3,317.7270**

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2722	2.8886	1.7809	3.4700e-003	0.4441	0.1329	0.5769	0.2004	0.1222	0.3226	0.0000	304.9777	304.9777	0.0961	0.0000	307.3811
2022	0.8625	7.9227	6.7820	0.0276	1.5600	0.1535	1.7135	0.4393	0.1429	0.5823	0.0000	2,552.9868	2,552.9868	0.2268	0.0000	2,558.6563
2023	0.9383	7.4804	7.5676	0.0357	1.9807	0.1058	2.0865	0.5372	0.0994	0.6367	0.0000	3,312.7774	3,312.7774	0.1980	0.0000	3,317.7266
2024	0.8948	7.4045	7.2691	0.0355	1.9960	0.0952	2.0911	0.5414	0.0894	0.6308	0.0000	3,298.5536	3,298.5536	0.1964	0.0000	3,303.4647
2025	0.8422	7.1795	6.8795	0.0348	1.9883	0.0833	2.0717	0.5393	0.0783	0.6176	0.0000	3,230.7154	3,230.7154	0.1923	0.0000	3,235.5218
2026	0.8111	7.1133	6.5814	0.0342	1.9883	0.0830	2.0713	0.5393	0.0779	0.6173	0.0000	3,181.3749	3,181.3749	0.1893	0.0000	3,186.1082
2027	0.7814	7.0524	6.3183	0.0337	1.9883	0.0824	2.0707	0.5393	0.0774	0.6167	0.0000	3,138.1898	3,138.1898	0.1866	0.0000	3,142.8535
2028	5.8347	2.3602	2.6639	0.0108	0.6192	0.0470	0.6661	0.1674	0.0438	0.2112	0.0000	994.2472	994.2472	0.0853	0.0000	996.3799
2029	7.0987	0.0787	0.3196	1.0000e-003	0.1210	3.2900e-003	0.1243	0.0321	3.2500e-003	0.0354	0.0000	90.0485	90.0485	2.0500e-003	0.0000	90.0998
Maximum	**7.0987**	**7.9227**	**7.5676**	**0.0357**	**1.9960**	**0.1535**	**2.0911**	**0.5414**	**0.1429**	**0.6367**	**0.0000**	**3,312.7774**	**3,312.7774**	**0.2268**	**0.0000**	**3,317.7266**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**5.80**	**0.00**	**5.48**	**8.52**	**0.00**	**7.16**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2021	9-30-2021	1.4800	1.4800

2	**10-1-2021**	**12-31-2021**	1.6666	1.6666
3	**1-1-2022**	**3-31-2022**	1.3689	1.3689
4	**4-1-2022**	**6-30-2022**	2.2190	2.2190
5	**7-1-2022**	**9-30-2022**	2.5995	2.5995
6	**10-1-2022**	**12-31-2022**	2.5856	2.5856
7	**1-1-2023**	**3-31-2023**	2.0718	2.0718
8	**4-1-2023**	**6-30-2023**	2.1077	2.1077
9	**7-1-2023**	**9-30-2023**	2.1309	2.1309
10	**10-1-2023**	**12-31-2023**	2.1178	2.1178
11	**1-1-2024**	**3-31-2024**	2.0489	2.0489
12	**4-1-2024**	**6-30-2024**	2.0612	2.0612
13	**7-1-2024**	**9-30-2024**	2.0839	2.0839
14	**10-1-2024**	**12-31-2024**	2.0715	2.0715
15	**1-1-2025**	**3-31-2025**	1.9659	1.9659
16	**4-1-2025**	**6-30-2025**	2.0001	2.0001
17	**7-1-2025**	**9-30-2025**	2.0220	2.0220
18	**10-1-2025**	**12-31-2025**	2.0096	2.0096
19	**1-1-2026**	**3-31-2026**	1.9420	1.9420
20	**4-1-2026**	**6-30-2026**	1.9759	1.9759
21	**7-1-2026**	**9-30-2026**	1.9976	1.9976
22	**10-1-2026**	**12-31-2026**	1.9852	1.9852
23	**1-1-2027**	**3-31-2027**	1.9197	1.9197
24	**4-1-2027**	**6-30-2027**	1.9534	1.9534
25	**7-1-2027**	**9-30-2027**	1.9749	1.9749
26	**10-1-2027**	**12-31-2027**	1.9624	1.9624
27	**1-1-2028**	**3-31-2028**	1.9209	1.9209
28	**4-1-2028**	**6-30-2028**	0.4226	0.4226

29	**7-1-2028**	**9-30-2028**	1.4230	1.4230
30	**10-1-2028**	**12-31-2028**	4.4964	4.4964
31	**1-1-2029**	**3-31-2029**	4.3961	4.3961
32	**4-1-2029**	**6-30-2029**	2.6862	2.6862
		Highest	4.4964	4.4964

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	5.3696	2.8000e-004	0.0313	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0608	0.0608	1.6000e-004	0.0000	0.0648
Energy	0.2827	2.5698	2.1586	0.0154		0.1953	0.1953		0.1953	0.1953	0.0000	15,841.3243	15,841.3243	0.5921	0.1627	15,904.6132
Mobile	0.5330	10.6278	5.6591	0.0469	2.4655	0.0292	2.4947	0.6687	0.0276	0.6963	0.0000	4,429.5126	4,429.5126	0.2212	0.0000	4,435.0424
Waste						0.0000	0.0000		0.0000	0.0000	193.2576	0.0000	193.2576	11.4212	0.0000	478.7874
Water						0.0000	0.0000		0.0000	0.0000	74.3055	971.7025	1,046.0080	7.6720	0.1885	1,293.9827
Total	**6.1852**	**13.1978**	**7.8490**	**0.0623**	**2.4655**	**0.2246**	**2.6901**	**0.6687**	**0.2230**	**0.8917**	**267.5631**	**21,242.6002**	**21,510.1632**	**19.9067**	**0.3512**	**22,112.4904**

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	5.3696	2.8000e-004	0.0313	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0608	0.0608	1.6000e-004	0.0000	0.0648
Energy	0.2827	2.5698	2.1586	0.0154		0.1953	0.1953		0.1953	0.1953	0.0000	13,884.0034	13,884.0034	0.5113	0.1460	13,940.2899
Mobile	0.5330	10.6278	5.6591	0.0469	2.4655	0.0292	2.4947	0.6687	0.0276	0.6963	0.0000	4,429.5126	4,429.5126	0.2212	0.0000	4,435.0424
Waste						0.0000	0.0000		0.0000	0.0000	193.2576	0.0000	193.2576	11.4212	0.0000	478.7874
Water						0.0000	0.0000		0.0000	0.0000	65.1213	851.6001	916.7214	6.7237	0.1652	1,134.0464
Total	**6.1852**	**13.1978**	**7.8490**	**0.0623**	**2.4655**	**0.2246**	**2.6901**	**0.6687**	**0.2230**	**0.8917**	**258.3789**	**19,165.1769**	**19,423.5557**	**18.8776**	**0.3112**	**19,988.2309**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**3.43**	**9.78**	**9.70**	**5.17**	**11.39**	**9.61**

3.0 Construction Detail

Construction Phase

US Cold Storage Hesperia - San Bernardino-Mojave Desert County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2021	9/22/2021	5	60	
2	Grading	Grading	9/23/2021	4/27/2022	5	155	
3	Building Construction	Building Construction	4/28/2022	4/5/2028	5	1550	
4	Paving	Paving	4/6/2028	9/6/2028	5	110	
5	Architectural Coating	Architectural Coating	9/7/2028	5/25/2029	5	187	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 387.5

Acres of Paving: 54.86

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,519,224; Non-Residential Outdoor: 506,408; Striped Parking Area: 143,371 (Architectural Coating – sqft)

OffRoad Equipment

US Cold Storage Hesperia - San Bernardino-Mojave Desert County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,429.00	558.00	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	286.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1167	1.2149	0.6346	1.1400e-003		0.0613	0.0613		0.0564	0.0564	0.0000	100.3072	100.3072	0.0324	0.0000	101.1182
Total	**0.1167**	**1.2149**	**0.6346**	**1.1400e-003**	**0.5420**	**0.0613**	**0.6033**	**0.2979**	**0.0564**	**0.3544**	**0.0000**	**100.3072**	**100.3072**	**0.0324**	**0.0000**	**101.1182**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9800e-003	1.4300e-003	0.0148	4.0000e-005	4.3500e-003	3.0000e-005	4.3800e-003	1.1600e-003	3.0000e-005	1.1800e-003	0.0000	3.6381	3.6381	1.0000e-004	0.0000	3.6408
Total	**1.9800e-003**	**1.4300e-003**	**0.0148**	**4.0000e-005**	**4.3500e-003**	**3.0000e-005**	**4.3800e-003**	**1.1600e-003**	**3.0000e-005**	**1.1800e-003**	**0.0000**	**3.6381**	**3.6381**	**1.0000e-004**	**0.0000**	**3.6408**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2439	0.0000	0.2439	0.1341	0.0000	0.1341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1167	1.2149	0.6346	1.1400e-003		0.0613	0.0613		0.0564	0.0564	0.0000	100.3070	100.3070	0.0324	0.0000	101.1181
Total	**0.1167**	**1.2149**	**0.6346**	**1.1400e-003**	**0.2439**	**0.0613**	**0.3052**	**0.1341**	**0.0564**	**0.1905**	**0.0000**	**100.3070**	**100.3070**	**0.0324**	**0.0000**	**101.1181**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9800e-003	1.4300e-003	0.0148	4.0000e-005	4.3500e-003	3.0000e-005	4.3800e-003	1.1600e-003	3.0000e-005	1.1800e-003	0.0000	3.6381	3.6381	1.0000e-004	0.0000	3.6408
Total	**1.9800e-003**	**1.4300e-003**	**0.0148**	**4.0000e-005**	**4.3500e-003**	**3.0000e-005**	**4.3800e-003**	**1.1600e-003**	**3.0000e-005**	**1.1800e-003**	**0.0000**	**3.6381**	**3.6381**	**1.0000e-004**	**0.0000**	**3.6408**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4223	0.0000	0.4223	0.1414	0.0000	0.1414	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1509	1.6704	1.1116	2.2300e-003		0.0715	0.0715		0.0658	0.0658	0.0000	196.1819	196.1819	0.0635	0.0000	197.7682
Total	**0.1509**	**1.6704**	**1.1116**	**2.2300e-003**	**0.4223**	**0.0715**	**0.4937**	**0.1414**	**0.0658**	**0.2071**	**0.0000**	**196.1819**	**196.1819**	**0.0635**	**0.0000**	**197.7682**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6400e-003	1.9100e-003	0.0198	5.0000e-005	5.8000e-003	4.0000e-005	5.8400e-003	1.5400e-003	4.0000e-005	1.5800e-003	0.0000	4.8509	4.8509	1.4000e-004	0.0000	4.8543
Total	**2.6400e-003**	**1.9100e-003**	**0.0198**	**5.0000e-005**	**5.8000e-003**	**4.0000e-005**	**5.8400e-003**	**1.5400e-003**	**4.0000e-005**	**1.5800e-003**	**0.0000**	**4.8509**	**4.8509**	**1.4000e-004**	**0.0000**	**4.8543**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1900	0.0000	0.1900	0.0636	0.0000	0.0636	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1509	1.6704	1.1116	2.2300e-003		0.0715	0.0715		0.0658	0.0658	0.0000	196.1817	196.1817	0.0635	0.0000	197.7679
Total	**0.1509**	**1.6704**	**1.1116**	**2.2300e-003**	**0.1900**	**0.0715**	**0.2615**	**0.0636**	**0.0658**	**0.1294**	**0.0000**	**196.1817**	**196.1817**	**0.0635**	**0.0000**	**197.7679**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6400e-003	1.9100e-003	0.0198	5.0000e-005	5.8000e-003	4.0000e-005	5.8400e-003	1.5400e-003	4.0000e-005	1.5800e-003	0.0000	4.8509	4.8509	1.4000e-004	0.0000	4.8543
Total	**2.6400e-003**	**1.9100e-003**	**0.0198**	**5.0000e-005**	**5.8000e-003**	**4.0000e-005**	**5.8400e-003**	**1.5400e-003**	**4.0000e-005**	**1.5800e-003**	**0.0000**	**4.8509**	**4.8509**	**1.4000e-004**	**0.0000**	**4.8543**

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4554	0.0000	0.4554	0.1596	0.0000	0.1596	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1504	1.6120	1.2052	2.5800e-003		0.0679	0.0679		0.0624	0.0624	0.0000	226.3186	226.3186	0.0732	0.0000	228.1485
Total	**0.1504**	**1.6120**	**1.2052**	**2.5800e-003**	**0.4554**	**0.0679**	**0.5232**	**0.1596**	**0.0624**	**0.2220**	**0.0000**	**226.3186**	**226.3186**	**0.0732**	**0.0000**	**228.1485**

3.3 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8400e-003	1.9700e-003	0.0209	6.0000e-005	6.6900e-003	4.0000e-005	6.7300e-003	1.7800e-003	4.0000e-005	1.8200e-003	0.0000	5.3906	5.3906	1.4000e-004	0.0000	5.3942
Total	**2.8400e-003**	**1.9700e-003**	**0.0209**	**6.0000e-005**	**6.6900e-003**	**4.0000e-005**	**6.7300e-003**	**1.7800e-003**	**4.0000e-005**	**1.8200e-003**	**0.0000**	**5.3906**	**5.3906**	**1.4000e-004**	**0.0000**	**5.3942**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2049	0.0000	0.2049	0.0718	0.0000	0.0718	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1504	1.6120	1.2052	2.5800e-003		0.0679	0.0679		0.0624	0.0624	0.0000	226.3183	226.3183	0.0732	0.0000	228.1482
Total	**0.1504**	**1.6120**	**1.2052**	**2.5800e-003**	**0.2049**	**0.0679**	**0.2728**	**0.0718**	**0.0624**	**0.1342**	**0.0000**	**226.3183**	**226.3183**	**0.0732**	**0.0000**	**228.1482**

3.3 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8400e-003	1.9700e-003	0.0209	6.0000e-005	6.6900e-003	4.0000e-005	6.7300e-003	1.7800e-003	4.0000e-005	1.8200e-003	0.0000	5.3906	5.3906	1.4000e-004	0.0000	5.3942
Total	**2.8400e-003**	**1.9700e-003**	**0.0209**	**6.0000e-005**	**6.6900e-003**	**4.0000e-005**	**6.7300e-003**	**1.7800e-003**	**4.0000e-005**	**1.8200e-003**	**0.0000**	**5.3906**	**5.3906**	**1.4000e-004**	**0.0000**	**5.3942**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1510	1.3820	1.4482	2.3800e-003		0.0716	0.0716		0.0674	0.0674	0.0000	205.0768	205.0768	0.0491	0.0000	206.3051
Total	**0.1510**	**1.3820**	**1.4482**	**2.3800e-003**		**0.0716**	**0.0716**		**0.0674**	**0.0674**	**0.0000**	**205.0768**	**205.0768**	**0.0491**	**0.0000**	**206.3051**

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1250	4.6261	0.9234	0.0135	0.3293	7.3100e-003	0.3366	0.0950	6.9900e-003	0.1020	0.0000	1,294.8404	1,294.8404	0.0824	0.0000	1,296.9002
Worker	0.4332	0.3007	3.1844	9.0900e-003	1.0191	6.6600e-003	1.0258	0.2707	6.1300e-003	0.2768	0.0000	821.3609	821.3609	0.0219	0.0000	821.9089
Total	**0.5582**	**4.9267**	**4.1078**	**0.0226**	**1.3484**	**0.0140**	**1.3624**	**0.3657**	**0.0131**	**0.3789**	**0.0000**	**2,116.2013**	**2,116.2013**	**0.1043**	**0.0000**	**2,118.8090**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1510	1.3820	1.4482	2.3800e-003		0.0716	0.0716		0.0674	0.0674	0.0000	205.0766	205.0766	0.0491	0.0000	206.3049
Total	**0.1510**	**1.3820**	**1.4482**	**2.3800e-003**		**0.0716**	**0.0716**		**0.0674**	**0.0674**	**0.0000**	**205.0766**	**205.0766**	**0.0491**	**0.0000**	**206.3049**

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1250	4.6261	0.9234	0.0135	0.3293	7.3100e-003	0.3366	0.0950	6.9900e-003	0.1020	0.0000	1,294.8404	1,294.8404	0.0824	0.0000	1,296.9002
Worker	0.4332	0.3007	3.1844	9.0900e-003	1.0191	6.6600e-003	1.0258	0.2707	6.1300e-003	0.2768	0.0000	821.3609	821.3609	0.0219	0.0000	821.9089
Total	**0.5582**	**4.9267**	**4.1078**	**0.0226**	**1.3484**	**0.0140**	**1.3624**	**0.3657**	**0.0131**	**0.3789**	**0.0000**	**2,116.2013**	**2,116.2013**	**0.1043**	**0.0000**	**2,118.8090**

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	**0.2045**	**1.8700**	**2.1117**	**3.5000e-003**		**0.0910**	**0.0910**		**0.0856**	**0.0856**	**0.0000**	**301.3462**	**301.3462**	**0.0717**	**0.0000**	**303.1383**

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1385	5.2130	1.1712	0.0193	0.4837	5.2900e-003	0.4890	0.1396	5.0600e-003	0.1447	0.0000	1,850.1905	1,850.1905	0.0975	0.0000	1,852.6270
Worker	0.5953	0.3974	4.2847	0.0129	1.4970	9.5200e-003	1.5065	0.3977	8.7600e-003	0.4064	0.0000	1,161.2411	1,161.2411	0.0288	0.0000	1,161.9617
Total	**0.7338**	**5.6103**	**5.4559**	**0.0322**	**1.9807**	**0.0148**	**1.9955**	**0.5373**	**0.0138**	**0.5511**	**0.0000**	**3,011.4316**	**3,011.4316**	**0.1263**	**0.0000**	**3,014.5887**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	**0.2045**	**1.8700**	**2.1117**	**3.5000e-003**		**0.0910**	**0.0910**		**0.0856**	**0.0856**	**0.0000**	**301.3458**	**301.3458**	**0.0717**	**0.0000**	**303.1380**

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1385	5.2130	1.1712	0.0193	0.4837	5.2900e-003	0.4890	0.1396	5.0600e-003	0.1447	0.0000	1,850.1905	1,850.1905	0.0975	0.0000	1,852.6270
Worker	0.5953	0.3974	4.2847	0.0129	1.4970	9.5200e-003	1.5065	0.3977	8.7600e-003	0.4064	0.0000	1,161.2411	1,161.2411	0.0288	0.0000	1,161.9617
Total	**0.7338**	**5.6103**	**5.4559**	**0.0322**	**1.9807**	**0.0148**	**1.9955**	**0.5373**	**0.0138**	**0.5511**	**0.0000**	**3,011.4316**	**3,011.4316**	**0.1263**	**0.0000**	**3,014.5887**

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	**0.1928**	**1.7611**	**2.1179**	**3.5300e-003**		**0.0803**	**0.0803**		**0.0756**	**0.0756**	**0.0000**	**303.7223**	**303.7223**	**0.0718**	**0.0000**	**305.5179**

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1377	5.2809	1.1363	0.0194	0.4875	5.3100e-003	0.4928	0.1407	5.0800e-003	0.1457	0.0000	1,862.6338	1,862.6338	0.0981	0.0000	1,865.0872
Worker	0.5643	0.3625	4.0149	0.0125	1.5085	9.5000e-003	1.5180	0.4007	8.7500e-003	0.4095	0.0000	1,132.1978	1,132.1978	0.0265	0.0000	1,132.8600
Total	**0.7020**	**5.6434**	**5.1512**	**0.0320**	**1.9960**	**0.0148**	**2.0108**	**0.5414**	**0.0138**	**0.5552**	**0.0000**	**2,994.8316**	**2,994.8316**	**0.1246**	**0.0000**	**2,997.9472**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	**0.1928**	**1.7611**	**2.1179**	**3.5300e-003**		**0.0803**	**0.0803**		**0.0756**	**0.0756**	**0.0000**	**303.7220**	**303.7220**	**0.0718**	**0.0000**	**305.5175**

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1377	5.2809	1.1363	0.0194	0.4875	5.3100e-003	0.4928	0.1407	5.0800e-003	0.1457	0.0000	1,862.6338	1,862.6338	0.0981	0.0000	1,865.0872
Worker	0.5643	0.3625	4.0149	0.0125	1.5085	9.5000e-003	1.5180	0.4007	8.7500e-003	0.4095	0.0000	1,132.1978	1,132.1978	0.0265	0.0000	1,132.8600
Total	**0.7020**	**5.6434**	**5.1512**	**0.0320**	**1.9960**	**0.0148**	**2.0108**	**0.5414**	**0.0138**	**0.5552**	**0.0000**	**2,994.8316**	**2,994.8316**	**0.1246**	**0.0000**	**2,997.9472**

3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	**0.1785**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6549**	**302.6549**	**0.0711**	**0.0000**	**304.4335**

3.4 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1336	5.2243	1.0877	0.0193	0.4856	5.2200e-003	0.4908	0.1401	4.9900e-003	0.1451	0.0000	1,844.9523	1,844.9523	0.0973	0.0000	1,847.3840
Worker	0.5302	0.3279	3.6928	0.0120	1.5027	9.2700e-003	1.5120	0.3992	8.5300e-003	0.4077	0.0000	1,083.1086	1,083.1086	0.0238	0.0000	1,083.7046
Total	**0.6638**	**5.5522**	**4.7805**	**0.0312**	**1.9883**	**0.0145**	**2.0028**	**0.5393**	**0.0135**	**0.5528**	**0.0000**	**2,928.0609**	**2,928.0609**	**0.1211**	**0.0000**	**2,931.0886**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	**0.1784**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6545**	**302.6545**	**0.0711**	**0.0000**	**304.4331**

3.4 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1336	5.2243	1.0877	0.0193	0.4856	5.2200e-003	0.4908	0.1401	4.9900e-003	0.1451	0.0000	1,844.9523	1,844.9523	0.0973	0.0000	1,847.3840
Worker	0.5302	0.3279	3.6928	0.0120	1.5027	9.2700e-003	1.5120	0.3992	8.5300e-003	0.4077	0.0000	1,083.1086	1,083.1086	0.0238	0.0000	1,083.7046
Total	**0.6638**	**5.5522**	**4.7805**	**0.0312**	**1.9883**	**0.0145**	**2.0028**	**0.5393**	**0.0135**	**0.5528**	**0.0000**	**2,928.0609**	**2,928.0609**	**0.1211**	**0.0000**	**2,931.0886**

3.4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	**0.1785**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6549**	**302.6549**	**0.0711**	**0.0000**	**304.4335**

3.4 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1306	5.1863	1.0538	0.0191	0.4856	5.1500e-003	0.4907	0.1401	4.9200e-003	0.1451	0.0000	1,834.8846	1,834.8846	0.0965	0.0000	1,837.2980
Worker	0.5021	0.2997	3.4286	0.0115	1.5027	8.9800e-003	1.5117	0.3992	8.2600e-003	0.4074	0.0000	1,043.8357	1,043.8357	0.0217	0.0000	1,044.3771
Total	**0.6327**	**5.4860**	**4.4823**	**0.0307**	**1.9883**	**0.0141**	**2.0024**	**0.5393**	**0.0132**	**0.5525**	**0.0000**	**2,878.7204**	**2,878.7204**	**0.1182**	**0.0000**	**2,881.6751**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	**0.1784**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6545**	**302.6545**	**0.0711**	**0.0000**	**304.4331**

3.4 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1306	5.1863	1.0538	0.0191	0.4856	5.1500e-003	0.4907	0.1401	4.9200e-003	0.1451	0.0000	1,834.8846	1,834.8846	0.0965	0.0000	1,837.2980
Worker	0.5021	0.2997	3.4286	0.0115	1.5027	8.9800e-003	1.5117	0.3992	8.2600e-003	0.4074	0.0000	1,043.8357	1,043.8357	0.0217	0.0000	1,044.3771
Total	**0.6327**	**5.4860**	**4.4823**	**0.0307**	**1.9883**	**0.0141**	**2.0024**	**0.5393**	**0.0132**	**0.5525**	**0.0000**	**2,878.7204**	**2,878.7204**	**0.1182**	**0.0000**	**2,881.6751**

3.4 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	**0.1785**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6549**	**302.6549**	**0.0711**	**0.0000**	**304.4335**

3.4 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1281	5.1506	1.0255	0.0191	0.4856	5.0700e-003	0.4906	0.1401	4.8500e-003	0.1450	0.0000	1,826.3657	1,826.3657	0.0957	0.0000	1,828.7581
Worker	0.4749	0.2745	3.1938	0.0112	1.5027	8.5100e-003	1.5113	0.3992	7.8300e-003	0.4070	0.0000	1,009.1696	1,009.1696	0.0197	0.0000	1,009.6623
Total	**0.6030**	**5.4251**	**4.2193**	**0.0302**	**1.9883**	**0.0136**	**2.0019**	**0.5393**	**0.0127**	**0.5520**	**0.0000**	**2,835.5353**	**2,835.5353**	**0.1154**	**0.0000**	**2,838.4204**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	**0.1784**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6545**	**302.6545**	**0.0711**	**0.0000**	**304.4331**

3.4 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1281	5.1506	1.0255	0.0191	0.4856	5.0700e-003	0.4906	0.1401	4.8500e-003	0.1450	0.0000	1,826.3657	1,826.3657	0.0957	0.0000	1,828.7581
Worker	0.4749	0.2745	3.1938	0.0112	1.5027	8.5100e-003	1.5113	0.3992	7.8300e-003	0.4070	0.0000	1,009.1696	1,009.1696	0.0197	0.0000	1,009.6623
Total	**0.6030**	**5.4251**	**4.2193**	**0.0302**	**1.9883**	**0.0136**	**2.0019**	**0.5393**	**0.0127**	**0.5520**	**0.0000**	**2,835.5353**	**2,835.5353**	**0.1154**	**0.0000**	**2,838.4204**

3.4 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0465	0.4240	0.5469	9.2000e-004		0.0179	0.0179		0.0169	0.0169	0.0000	78.8526	78.8526	0.0185	0.0000	79.3160
Total	**0.0465**	**0.4240**	**0.5469**	**9.2000e-004**		**0.0179**	**0.0179**		**0.0169**	**0.0169**	**0.0000**	**78.8526**	**78.8526**	**0.0185**	**0.0000**	**79.3160**

3.4 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0328	1.3347	0.2615	4.9400e-003	0.1265	1.3100e-003	0.1278	0.0365	1.2500e-003	0.0378	0.0000	473.9542	473.9542	0.0247	0.0000	474.5712
Worker	0.1165	0.0656	0.7785	2.8200e-003	0.3915	2.0600e-003	0.3936	0.1040	1.8900e-003	0.1059	0.0000	254.9948	254.9948	4.7000e-003	0.0000	255.1122
Total	**0.1493**	**1.4003**	**1.0400**	**7.7600e-003**	**0.5180**	**3.3700e-003**	**0.5214**	**0.1405**	**3.1400e-003**	**0.1437**	**0.0000**	**728.9489**	**728.9489**	**0.0294**	**0.0000**	**729.6833**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0465	0.4240	0.5469	9.2000e-004		0.0179	0.0179		0.0169	0.0169	0.0000	78.8525	78.8525	0.0185	0.0000	79.3159
Total	**0.0465**	**0.4240**	**0.5469**	**9.2000e-004**		**0.0179**	**0.0179**		**0.0169**	**0.0169**	**0.0000**	**78.8525**	**78.8525**	**0.0185**	**0.0000**	**79.3159**

3.4 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0328	1.3347	0.2615	4.9400e-003	0.1265	1.3100e-003	0.1278	0.0365	1.2500e-003	0.0378	0.0000	473.9542	473.9542	0.0247	0.0000	474.5712
Worker	0.1165	0.0656	0.7785	2.8200e-003	0.3915	2.0600e-003	0.3936	0.1040	1.8900e-003	0.1059	0.0000	254.9948	254.9948	4.7000e-003	0.0000	255.1122
Total	**0.1493**	**1.4003**	**1.0400**	**7.7600e-003**	**0.5180**	**3.3700e-003**	**0.5214**	**0.1405**	**3.1400e-003**	**0.1437**	**0.0000**	**728.9489**	**728.9489**	**0.0294**	**0.0000**	**729.6833**

3.5 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0503	0.4720	0.8018	1.2500e-003		0.0230	0.0230		0.0212	0.0212	0.0000	110.1059	110.1059	0.0356	0.0000	110.9962
Paving	0.0409					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0913**	**0.4720**	**0.8018**	**1.2500e-003**		**0.0230**	**0.0230**		**0.0212**	**0.0212**	**0.0000**	**110.1059**	**110.1059**	**0.0356**	**0.0000**	**110.9962**

3.5 Paving - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9800e-003	1.1100e-003	0.0132	5.0000e-005	6.6500e-003	3.0000e-005	6.6800e-003	1.7700e-003	3.0000e-005	1.8000e-003	0.0000	4.3299	4.3299	8.0000e-005	0.0000	4.3319
Total	**1.9800e-003**	**1.1100e-003**	**0.0132**	**5.0000e-005**	**6.6500e-003**	**3.0000e-005**	**6.6800e-003**	**1.7700e-003**	**3.0000e-005**	**1.8000e-003**	**0.0000**	**4.3299**	**4.3299**	**8.0000e-005**	**0.0000**	**4.3319**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0503	0.4720	0.8018	1.2500e-003		0.0230	0.0230		0.0212	0.0212	0.0000	110.1058	110.1058	0.0356	0.0000	110.9960
Paving	0.0409					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0913**	**0.4720**	**0.8018**	**1.2500e-003**		**0.0230**	**0.0230**		**0.0212**	**0.0212**	**0.0000**	**110.1058**	**110.1058**	**0.0356**	**0.0000**	**110.9960**

3.5 Paving - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9800e-003	1.1100e-003	0.0132	5.0000e-005	6.6500e-003	3.0000e-005	6.6800e-003	1.7700e-003	3.0000e-005	1.8000e-003	0.0000	4.3299	4.3299	8.0000e-005	0.0000	4.3319
Total	**1.9800e-003**	**1.1100e-003**	**0.0132**	**5.0000e-005**	**6.6500e-003**	**3.0000e-005**	**6.6800e-003**	**1.7700e-003**	**3.0000e-005**	**1.8000e-003**	**0.0000**	**4.3299**	**4.3299**	**8.0000e-005**	**0.0000**	**4.3319**

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.5105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0100e-003	0.0470	0.0742	1.2000e-004		2.1100e-003	2.1100e-003		2.1100e-003	2.1100e-003	0.0000	10.4683	10.4683	5.7000e-004	0.0000	10.4826
Total	**5.5175**	**0.0470**	**0.0742**	**1.2000e-004**		**2.1100e-003**	**2.1100e-003**		**2.1100e-003**	**2.1100e-003**	**0.0000**	**10.4683**	**10.4683**	**5.7000e-004**	**0.0000**	**10.4826**

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0281	0.0158	0.1879	6.8000e-004	0.0945	5.0000e-004	0.0950	0.0251	4.6000e-004	0.0256	0.0000	61.5418	61.5418	1.1300e-003	0.0000	61.5701
Total	**0.0281**	**0.0158**	**0.1879**	**6.8000e-004**	**0.0945**	**5.0000e-004**	**0.0950**	**0.0251**	**4.6000e-004**	**0.0256**	**0.0000**	**61.5418**	**61.5418**	**1.1300e-003**	**0.0000**	**61.5701**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.5105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0100e-003	0.0470	0.0742	1.2000e-004		2.1100e-003	2.1100e-003		2.1100e-003	2.1100e-003	0.0000	10.4683	10.4683	5.7000e-004	0.0000	10.4826
Total	**5.5175**	**0.0470**	**0.0742**	**1.2000e-004**		**2.1100e-003**	**2.1100e-003**		**2.1100e-003**	**2.1100e-003**	**0.0000**	**10.4683**	**10.4683**	**5.7000e-004**	**0.0000**	**10.4826**

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0281	0.0158	0.1879	6.8000e-004	0.0945	5.0000e-004	0.0950	0.0251	4.6000e-004	0.0256	0.0000	61.5418	61.5418	1.1300e-003	0.0000	61.5701
Total	**0.0281**	**0.0158**	**0.1879**	**6.8000e-004**	**0.0945**	**5.0000e-004**	**0.0950**	**0.0251**	**4.6000e-004**	**0.0256**	**0.0000**	**61.5418**	**61.5418**	**1.1300e-003**	**0.0000**	**61.5701**

3.6 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	7.0562					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.9700e-003	0.0601	0.0950	1.6000e-004		2.7000e-003	2.7000e-003		2.7000e-003	2.7000e-003	0.0000	13.4046	13.4046	7.3000e-004	0.0000	13.4229
Total	**7.0651**	**0.0601**	**0.0950**	**1.6000e-004**		**2.7000e-003**	**2.7000e-003**		**2.7000e-003**	**2.7000e-003**	**0.0000**	**13.4046**	**13.4046**	**7.3000e-004**	**0.0000**	**13.4229**

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0336	0.0186	0.2246	8.5000e-004	0.1210	5.9000e-004	0.1216	0.0321	5.4000e-004	0.0327	0.0000	76.6440	76.6440	1.3200e-003	0.0000	76.6770
Total	**0.0336**	**0.0186**	**0.2246**	**8.5000e-004**	**0.1210**	**5.9000e-004**	**0.1216**	**0.0321**	**5.4000e-004**	**0.0327**	**0.0000**	**76.6440**	**76.6440**	**1.3200e-003**	**0.0000**	**76.6770**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	7.0562					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.9700e-003	0.0601	0.0950	1.6000e-004		2.7000e-003	2.7000e-003		2.7000e-003	2.7000e-003	0.0000	13.4046	13.4046	7.3000e-004	0.0000	13.4229
Total	**7.0651**	**0.0601**	**0.0950**	**1.6000e-004**		**2.7000e-003**	**2.7000e-003**		**2.7000e-003**	**2.7000e-003**	**0.0000**	**13.4046**	**13.4046**	**7.3000e-004**	**0.0000**	**13.4229**

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0336	0.0186	0.2246	8.5000e-004	0.1210	5.9000e-004	0.1216	0.0321	5.4000e-004	0.0327	0.0000	76.6440	76.6440	1.3200e-003	0.0000	76.6770
Total	**0.0336**	**0.0186**	**0.2246**	**8.5000e-004**	**0.1210**	**5.9000e-004**	**0.1216**	**0.0321**	**5.4000e-004**	**0.0327**	**0.0000**	**76.6440**	**76.6440**	**1.3200e-003**	**0.0000**	**76.6770**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5330	10.6278	5.6591	0.0469	2.4655	0.0292	2.4947	0.6687	0.0276	0.6963	0.0000	4,429.5126	4,429.5126	0.2212	0.0000	4,435.0424
Unmitigated	0.5330	10.6278	5.6591	0.0469	2.4655	0.0292	2.4947	0.6687	0.0276	0.6963	0.0000	4,429.5126	4,429.5126	0.2212	0.0000	4,435.0424

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	2,147.18	2,147.18	2147.18	6,268,711	6,268,711
Total	2,147.18	2,147.18	2,147.18	6,268,711	6,268,711

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Refrigerated Warehouse-No Rail	0.650000	0.000000	0.000000	0.000000	0.120000	0.000000	0.040000	0.190000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	11,086.4935	11,086.4935	0.4577	0.0947	11,126.1557
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	13,043.8144	13,043.8144	0.5385	0.1114	13,090.4790
NaturalGas Mitigated	0.2827	2.5698	2.1586	0.0154		0.1953	0.1953		0.1953	0.1953	0.0000	2,797.5099	2,797.5099	0.0536	0.0513	2,814.1341
NaturalGas Unmitigated	0.2827	2.5698	2.1586	0.0154		0.1953	0.1953		0.1953	0.1953	0.0000	2,797.5099	2,797.5099	0.0536	0.0513	2,814.1341

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other 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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	5.24234e+007	0.2827	2.5698	2.1586	0.0154		0.1953	0.1953		0.1953	0.1953	0.0000	2,797.5099	2,797.5099	0.0536	0.0513	2,814.1341
Total		**0.2827**	**2.5698**	**2.1586**	**0.0154**		**0.1953**	**0.1953**		**0.1953**	**0.1953**	**0.0000**	**2,797.5099**	**2,797.5099**	**0.0536**	**0.0513**	**2,814.1341**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other 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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	5.24234e+007	0.2827	2.5698	2.1586	0.0154		0.1953	0.1953		0.1953	0.1953	0.0000	2,797.5099	2,797.5099	0.0536	0.0513	2,814.1341
Total		**0.2827**	**2.5698**	**2.1586**	**0.0154**		**0.1953**	**0.1953**		**0.1953**	**0.1953**	**0.0000**	**2,797.5099**	**2,797.5099**	**0.0536**	**0.0513**	**2,814.1341**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	476285	151.7546	6.2700e-003	1.3000e-003	152.2975
Refrigerated Warehouse-No Rail	4.0462e+007	12,892.0598	0.5322	0.1101	12,938.1816
Total		**13,043.8144**	**0.5385**	**0.1114**	**13,090.4790**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	-783.333	-0.2496	0.0000	0.0000	-0.2505
Parking Lot	404059	128.7418	5.3200e-003	1.1000e-003	129.2024
Refrigerated Warehouse-No Rail	3.43919e+007	10,958.0013	0.4524	0.0936	10,997.2038
Total		**11,086.4935**	**0.4577**	**0.0947**	**11,126.1557**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.3696	2.8000e-004	0.0313	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0608	0.0608	1.6000e-004	0.0000	0.0648
Unmitigated	5.3696	2.8000e-004	0.0313	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0608	0.0608	1.6000e-004	0.0000	0.0648

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.2567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.1100					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9000e-003	2.8000e-004	0.0313	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0608	0.0608	1.6000e-004	0.0000	0.0648
Total	**5.3696**	**2.8000e-004**	**0.0313**	**0.0000**		**1.1000e-004**	**1.1000e-004**		**1.1000e-004**	**1.1000e-004**	**0.0000**	**0.0608**	**0.0608**	**1.6000e-004**	**0.0000**	**0.0648**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.2567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.1100					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9000e-003	2.8000e-004	0.0313	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0608	0.0608	1.6000e-004	0.0000	0.0648
Total	**5.3696**	**2.8000e-004**	**0.0313**	**0.0000**		**1.1000e-004**	**1.1000e-004**		**1.1000e-004**	**1.1000e-004**	**0.0000**	**0.0608**	**0.0608**	**1.6000e-004**	**0.0000**	**0.0648**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	916.7214	6.7237	0.1652	1,134.0464
Unmitigated	1,046.0080	7.6720	0.1885	1,293.9827

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	234.215 / 0	1,046.0080	7.6720	0.1885	1,293.9827
Total		**1,046.0080**	**7.6720**	**0.1885**	**1,293.9827**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	205.266 / 0	916.7214	6.7237	0.1652	1,134.0464
Total		**916.7214**	**6.7237**	**0.1652**	**1,134.0464**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	193.2576	11.4212	0.0000	478.7874
Unmitigated	193.2576	11.4212	0.0000	478.7874

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	952.05	193.2576	11.4212	0.0000	478.7874
Total		**193.2576**	**11.4212**	**0.0000**	**478.7874**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	952.05	193.2576	11.4212	0.0000	478.7874
Total		**193.2576**	**11.4212**	**0.0000**	**478.7874**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

US Cold Storage Hesperia

San Bernardino-Mojave Desert County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	1,012.82	1000sqft	23.25	1,012,816.00	0
Other Non-Asphalt Surfaces	1,028.71	1000sqft	23.62	1,028,706.00	0
Parking Lot	1,360.81	1000sqft	31.24	1,360,814.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Applicant will extend painting period for up to 187 days

Vehicle Trips - Per TIA

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Fleet Mix - Per TIA

US Cold Storage Hesperia - San Bernardino-Mojave Desert County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	110.00	187.00
tblConstructionPhase	PhaseEndDate	2/7/2029	5/25/2029
tblFleetMix	HHD	0.06	0.19
tblFleetMix	LDA	0.56	0.65
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.12
tblFleetMix	LHD2	4.9390e-003	0.00
tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblLandUse	LandUseSquareFeet	1,012,820.00	1,012,816.00
tblLandUse	LandUseSquareFeet	1,028,710.00	1,028,706.00
tblLandUse	LandUseSquareFeet	1,360,810.00	1,360,814.00
tblVehicleTrips	ST_TR	1.68	2.12
tblVehicleTrips	SU_TR	1.68	2.12
tblVehicleTrips	WD_TR	1.68	2.12

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2737	46.4477	31.5086	0.0637	18.2141	2.0454	20.2596	9.9699	1.8818	11.8517	0.0000	6,168.9924	6,168.9924	1.9475	0.0000	6,217.6797
2022	8.5872	70.5291	67.2718	0.2942	15.5190	1.6359	16.4849	4.2020	1.5051	5.1452	0.0000	30,095.1764	30,095.1764	1.9484	0.0000	30,142.4537
2023	7.7549	57.0971	62.5232	0.2856	15.5189	0.8131	16.3320	4.2020	0.7642	4.9662	0.0000	29,226.1119	29,226.1119	1.6665	0.0000	29,267.7734
2024	7.3291	56.0925	59.5493	0.2819	15.5189	0.7259	16.2448	4.2020	0.6819	4.8839	0.0000	28,860.5172	28,860.5172	1.6388	0.0000	28,901.4862
2025	6.9190	54.6215	56.4753	0.2768	15.5188	0.6382	16.1570	4.2020	0.5994	4.8014	0.0000	28,356.5039	28,356.5039	1.6077	0.0000	28,396.6973
2026	6.6500	54.1469	53.9318	0.2723	15.5188	0.6354	16.1542	4.2020	0.5969	4.7988	0.0000	27,906.9669	27,906.9669	1.5816	0.0000	27,946.5059
2027	6.3939	53.7108	51.6859	0.2684	15.5188	0.6312	16.1500	4.2020	0.5930	4.7950	0.0000	27,513.9693	27,513.9693	1.5568	0.0000	27,552.8893
2028	135.3399	53.3483	49.7404	0.2649	15.5188	0.6262	16.1450	4.2019	0.5884	4.7903	0.0000	27,171.1766	27,171.1766	1.5335	0.0000	27,209.5141
2029	135.2879	1.4658	6.7773	0.0206	2.3494	0.0628	2.4122	0.6232	0.0619	0.6850	0.0000	2,036.0018	2,036.0018	0.0460	0.0000	2,037.1508
Maximum	**135.3399**	**70.5291**	**67.2718**	**0.2942**	**18.2141**	**2.0454**	**20.2596**	**9.9699**	**1.8818**	**11.8517**	**0.0000**	**30,095.1764**	**30,095.1764**	**1.9484**	**0.0000**	**30,142.4537**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2737	46.4477	31.5086	0.0637	8.2777	2.0454	10.3231	4.5080	1.8818	6.3898	0.0000	6,168.9924	6,168.9924	1.9475	0.0000	6,217.6797
2022	8.5872	70.5291	67.2718	0.2942	15.5190	1.6359	16.4849	4.2020	1.5051	5.1105	0.0000	30,095.1764	30,095.1764	1.9484	0.0000	30,142.4537
2023	7.7549	57.0971	62.5232	0.2856	15.5189	0.8131	16.3320	4.2020	0.7642	4.9662	0.0000	29,226.1119	29,226.1119	1.6665	0.0000	29,267.7734
2024	7.3291	56.0925	59.5493	0.2819	15.5189	0.7259	16.2448	4.2020	0.6819	4.8839	0.0000	28,860.5172	28,860.5172	1.6388	0.0000	28,901.4862
2025	6.9190	54.6215	56.4753	0.2768	15.5188	0.6382	16.1570	4.2020	0.5994	4.8014	0.0000	28,356.5039	28,356.5039	1.6077	0.0000	28,396.6973
2026	6.6500	54.1469	53.9318	0.2723	15.5188	0.6354	16.1542	4.2020	0.5969	4.7988	0.0000	27,906.9669	27,906.9669	1.5816	0.0000	27,946.5059
2027	6.3939	53.7108	51.6859	0.2684	15.5188	0.6312	16.1500	4.2020	0.5930	4.7950	0.0000	27,513.9693	27,513.9693	1.5568	0.0000	27,552.8893
2028	135.3399	53.3483	49.7404	0.2649	15.5188	0.6262	16.1450	4.2019	0.5884	4.7903	0.0000	27,171.1766	27,171.1766	1.5335	0.0000	27,209.5141
2029	135.2879	1.4658	6.7773	0.0206	2.3494	0.0628	2.4122	0.6232	0.0619	0.6850	0.0000	2,036.0018	2,036.0018	0.0460	0.0000	2,037.1508
Maximum	**135.3399**	**70.5291**	**67.2718**	**0.2942**	**15.5190**	**2.0454**	**16.4849**	**4.5080**	**1.8818**	**6.3898**	**0.0000**	**30,095.1764**	**30,095.1764**	**1.9484**	**0.0000**	**30,142.4537**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**7.69**	**0.00**	**7.29**	**13.65**	**0.00**	**11.77**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.4387	3.1600e-003	0.3473	3.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003		0.7446	0.7446	1.9500e-003		0.7934
Energy	1.5489	14.0809	11.8280	0.0845		1.0702	1.0702		1.0702	1.0702		16,897.1333	16,897.1333	0.3239	0.3098	16,997.5446
Mobile	3.1954	57.6927	32.8878	0.2669	13.7962	0.1597	13.9559	3.7354	0.1510	3.8864		27,774.4605	27,774.4605	1.3008		27,806.9803
Total	**34.1829**	**71.7768**	**45.0631**	**0.3514**	**13.7962**	**1.2311**	**15.0273**	**3.7354**	**1.2224**	**4.9578**		**44,672.3384**	**44,672.3384**	**1.6266**	**0.3098**	**44,805.3183**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.4387	3.1600e-003	0.3473	3.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003		0.7446	0.7446	1.9500e-003		0.7934
Energy	1.5489	14.0809	11.8280	0.0845		1.0702	1.0702		1.0702	1.0702		16,897.1333	16,897.1333	0.3239	0.3098	16,997.5446
Mobile	3.1954	57.6927	32.8878	0.2669	13.7962	0.1597	13.9559	3.7354	0.1510	3.8864		27,774.4605	27,774.4605	1.3008		27,806.9803
Total	**34.1829**	**71.7768**	**45.0631**	**0.3514**	**13.7962**	**1.2311**	**15.0273**	**3.7354**	**1.2224**	**4.9578**		**44,672.3384**	**44,672.3384**	**1.6266**	**0.3098**	**44,805.3183**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2021	9/22/2021	5	60	
2	Grading	Grading	9/23/2021	4/27/2022	5	155	
3	Building Construction	Building Construction	4/28/2022	4/5/2028	5	1550	
4	Paving	Paving	4/6/2028	9/6/2028	5	110	
5	Architectural Coating	Architectural Coating	9/7/2028	5/25/2029	5	187	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 387.5

Acres of Paving: 54.86

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,519,224; Non-Residential Outdoor: 506,408; Striped Parking Area: 143,371 (Architectural Coating – sqft)

OffRoad Equipment

US Cold Storage Hesperia - San Bernardino-Mojave Desert County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,429.00	558.00	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	286.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0743	0.0430	0.5672	1.4600e-003	0.1479	9.8000e-004	0.1488	0.0392	9.0000e-004	0.0401		145.7541	145.7541	4.2200e-003		145.8597
Total	**0.0743**	**0.0430**	**0.5672**	**1.4600e-003**	**0.1479**	**9.8000e-004**	**0.1488**	**0.0392**	**9.0000e-004**	**0.0401**		**145.7541**	**145.7541**	**4.2200e-003**		**145.8597**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**8.1298**	**2.0445**	**10.1743**	**4.4688**	**1.8809**	**6.3497**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0743	0.0430	0.5672	1.4600e-003	0.1479	9.8000e-004	0.1488	0.0392	9.0000e-004	0.0401		145.7541	145.7541	4.2200e-003		145.8597
Total	**0.0743**	**0.0430**	**0.5672**	**1.4600e-003**	**0.1479**	**9.8000e-004**	**0.1488**	**0.0392**	**9.0000e-004**	**0.0401**		**145.7541**	**145.7541**	**4.2200e-003**		**145.8597**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0826	0.0478	0.6302	1.6300e-003	0.1643	1.0800e-003	0.1654	0.0436	1.0000e-003	0.0446		161.9490	161.9490	4.6900e-003		162.0663
Total	**0.0826**	**0.0478**	**0.6302**	**1.6300e-003**	**0.1643**	**1.0800e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**161.9490**	**161.9490**	**4.6900e-003**		**162.0663**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**3.9030**	**1.9853**	**5.8883**	**1.6184**	**1.8265**	**3.4449**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0826	0.0478	0.6302	1.6300e-003	0.1643	1.0800e-003	0.1654	0.0436	1.0000e-003	0.0446		161.9490	161.9490	4.6900e-003		162.0663
Total	**0.0826**	**0.0478**	**0.6302**	**1.6300e-003**	**0.1643**	**1.0800e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**161.9490**	**161.9490**	**4.6900e-003**		**162.0663**

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.3 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0770	0.0430	0.5786	1.5700e-003	0.1643	1.0500e-003	0.1654	0.0436	9.7000e-004	0.0446		156.1087	156.1087	4.2100e-003		156.2139
Total	**0.0770**	**0.0430**	**0.5786**	**1.5700e-003**	**0.1643**	**1.0500e-003**	**0.1654**	**0.0436**	**9.7000e-004**	**0.0446**		**156.1087**	**156.1087**	**4.2100e-003**		**156.2139**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**3.9030**	**1.6349**	**5.5379**	**1.6184**	**1.5041**	**3.1225**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.3 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0770	0.0430	0.5786	1.5700e-003	0.1643	1.0500e-003	0.1654	0.0436	9.7000e-004	0.0446		156.1087	156.1087	4.2100e-003		156.2139
Total	**0.0770**	**0.0430**	**0.5786**	**1.5700e-003**	**0.1643**	**1.0500e-003**	**0.1654**	**0.0436**	**9.7000e-004**	**0.0446**		**156.1087**	**156.1087**	**4.2100e-003**		**156.2139**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.3788	51.8428	9.5702	0.1553	3.7801	0.0816	3.8617	1.0883	0.0780	1.1664		16,386.8734	16,386.8734	0.9786		16,411.3374
Worker	5.5022	3.0707	41.3381	0.1120	11.7389	0.0753	11.8142	3.1137	0.0693	3.1830		11,153.9694	11,153.9694	0.3006		11,161.4841
Total	**6.8810**	**54.9134**	**50.9084**	**0.2673**	**15.5190**	**0.1569**	**15.6759**	**4.2020**	**0.1473**	**4.3493**		**27,540.8428**	**27,540.8428**	**1.2792**		**27,572.8215**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.3788	51.8428	9.5702	0.1553	3.7801	0.0816	3.8617	1.0883	0.0780	1.1664		16,386.8734	16,386.8734	0.9786		16,411.3374
Worker	5.5022	3.0707	41.3381	0.1120	11.7389	0.0753	11.8142	3.1137	0.0693	3.1830		11,153.9694	11,153.9694	0.3006		11,161.4841
Total	**6.8810**	**54.9134**	**50.9084**	**0.2673**	**15.5190**	**0.1569**	**15.6759**	**4.2020**	**0.1473**	**4.3493**		**27,540.8428**	**27,540.8428**	**1.2792**		**27,572.8215**

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0405	39.9484	8.3425	0.1509	3.7800	0.0401	3.8202	1.0883	0.0383	1.1267		15,936.0948	15,936.0948	0.7896		15,955.8343
Worker	5.1417	2.7639	37.9367	0.1078	11.7389	0.0732	11.8121	3.1137	0.0674	3.1811		10,734.8071	10,734.8071	0.2690		10,741.5330
Total	**6.1822**	**42.7122**	**46.2792**	**0.2587**	**15.5189**	**0.1134**	**15.6323**	**4.2020**	**0.1058**	**4.3078**		**26,670.9019**	**26,670.9019**	**1.0586**		**26,697.3673**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0405	39.9484	8.3425	0.1509	3.7800	0.0401	3.8202	1.0883	0.0383	1.1267		15,936.0948	15,936.0948	0.7896		15,955.8343
Worker	5.1417	2.7639	37.9367	0.1078	11.7389	0.0732	11.8121	3.1137	0.0674	3.1811		10,734.8071	10,734.8071	0.2690		10,741.5330
Total	**6.1822**	**42.7122**	**46.2792**	**0.2587**	**15.5189**	**0.1134**	**15.6323**	**4.2020**	**0.1058**	**4.3078**		**26,670.9019**	**26,670.9019**	**1.0586**		**26,697.3673**

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0266	40.1456	8.0330	0.1507	3.7800	0.0400	3.8200	1.0883	0.0383	1.1265		15,918.2825	15,918.2825	0.7890		15,938.0075
Worker	4.8309	2.5032	35.3495	0.1042	11.7389	0.0725	11.8114	3.1137	0.0668	3.1805		10,386.5358	10,386.5358	0.2454		10,392.6711
Total	**5.8576**	**42.6487**	**43.3825**	**0.2550**	**15.5189**	**0.1126**	**15.6315**	**4.2020**	**0.1050**	**4.3070**		**26,304.8183**	**26,304.8183**	**1.0344**		**26,330.6785**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0266	40.1456	8.0330	0.1507	3.7800	0.0400	3.8200	1.0883	0.0383	1.1265		15,918.2825	15,918.2825	0.7890		15,938.0075
Worker	4.8309	2.5032	35.3495	0.1042	11.7389	0.0725	11.8114	3.1137	0.0668	3.1805		10,386.5358	10,386.5358	0.2454		10,392.6711
Total	**5.8576**	**42.6487**	**43.3825**	**0.2550**	**15.5189**	**0.1126**	**15.6315**	**4.2020**	**0.1050**	**4.3070**		**26,304.8183**	**26,304.8183**	**1.0344**		**26,330.6785**

3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.4 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9999	39.8778	7.7130	0.1498	3.7799	0.0395	3.8195	1.0883	0.0378	1.1261		15,826.3208	15,826.3208	0.7850		15,845.9459
Worker	4.5517	2.2740	32.6777	0.1001	11.7389	0.0711	11.8100	3.1137	0.0654	3.1791		9,973.7087	9,973.7087	0.2218		9,979.2533
Total	**5.5516**	**42.1518**	**40.3906**	**0.2499**	**15.5188**	**0.1106**	**15.6294**	**4.2020**	**0.1032**	**4.3052**		**25,800.0295**	**25,800.0295**	**1.0068**		**25,825.1993**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.4 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9999	39.8778	7.7130	0.1498	3.7799	0.0395	3.8195	1.0883	0.0378	1.1261		15,826.3208	15,826.3208	0.7850		15,845.9459
Worker	4.5517	2.2740	32.6777	0.1001	11.7389	0.0711	11.8100	3.1137	0.0654	3.1791		9,973.7087	9,973.7087	0.2218		9,979.2533
Total	**5.5516**	**42.1518**	**40.3906**	**0.2499**	**15.5188**	**0.1106**	**15.6294**	**4.2020**	**0.1032**	**4.3052**		**25,800.0295**	**25,800.0295**	**1.0068**		**25,825.1993**

3.4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.4 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9772	39.5981	7.4683	0.1489	3.7799	0.0390	3.8189	1.0883	0.0373	1.1256		15,738.6300	15,738.6300	0.7791		15,758.1077
Worker	4.3054	2.0791	30.3788	0.0964	11.7389	0.0688	11.8077	3.1137	0.0633	3.1770		9,611.8626	9,611.8626	0.2015		9,616.9001
Total	**5.2826**	**41.6772**	**37.8471**	**0.2454**	**15.5188**	**0.1078**	**15.6266**	**4.2020**	**0.1006**	**4.3026**		**25,350.4926**	**25,350.4926**	**0.9806**		**25,375.0078**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.4 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9772	39.5981	7.4683	0.1489	3.7799	0.0390	3.8189	1.0883	0.0373	1.1256		15,738.6300	15,738.6300	0.7791		15,758.1077
Worker	4.3054	2.0791	30.3788	0.0964	11.7389	0.0688	11.8077	3.1137	0.0633	3.1770		9,611.8626	9,611.8626	0.2015		9,616.9001
Total	**5.2826**	**41.6772**	**37.8471**	**0.2454**	**15.5188**	**0.1078**	**15.6266**	**4.2020**	**0.1006**	**4.3026**		**25,350.4926**	**25,350.4926**	**0.9806**		**25,375.0078**

3.4 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.4 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9582	39.3365	7.2646	0.1482	3.7799	0.0385	3.8183	1.0883	0.0368	1.1250		15,664.6552	15,664.6552	0.7724		15,683.9651
Worker	4.0684	1.9047	28.3366	0.0932	11.7389	0.0652	11.8041	3.1137	0.0600	3.1737		9,292.8398	9,292.8398	0.1835		9,297.4261
Total	**5.0265**	**41.2411**	**35.6012**	**0.2414**	**15.5188**	**0.1037**	**15.6224**	**4.2020**	**0.0967**	**4.2987**		**24,957.4949**	**24,957.4949**	**0.9559**		**24,981.3912**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.4 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9582	39.3365	7.2646	0.1482	3.7799	0.0385	3.8183	1.0883	0.0368	1.1250		15,664.6552	15,664.6552	0.7724		15,683.9651
Worker	4.0684	1.9047	28.3366	0.0932	11.7389	0.0652	11.8041	3.1137	0.0600	3.1737		9,292.8398	9,292.8398	0.1835		9,297.4261
Total	**5.0265**	**41.2411**	**35.6012**	**0.2414**	**15.5188**	**0.1037**	**15.6224**	**4.2020**	**0.0967**	**4.2987**		**24,957.4949**	**24,957.4949**	**0.9559**		**24,981.3912**

3.4 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.4 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9424	39.1302	7.1061	0.1476	3.7799	0.0381	3.8180	1.0882	0.0364	1.1247		15,601.7434	15,601.7434	0.7646		15,620.8586
Worker	3.8286	1.7484	26.5496	0.0904	11.7389	0.0605	11.7994	3.1137	0.0557	3.1694		9,012.9589	9,012.9589	0.1679		9,017.1574
Total	**4.7710**	**40.8786**	**33.6558**	**0.2380**	**15.5188**	**0.0986**	**15.6174**	**4.2019**	**0.0921**	**4.2941**		**24,614.7022**	**24,614.7022**	**0.9326**		**24,638.0160**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.4 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9424	39.1302	7.1061	0.1476	3.7799	0.0381	3.8180	1.0882	0.0364	1.1247		15,601.7434	15,601.7434	0.7646		15,620.8586
Worker	3.8286	1.7484	26.5496	0.0904	11.7389	0.0605	11.7994	3.1137	0.0557	3.1694		9,012.9589	9,012.9589	0.1679		9,017.1574
Total	**4.7710**	**40.8786**	**33.6558**	**0.2380**	**15.5188**	**0.0986**	**15.6174**	**4.2019**	**0.0921**	**4.2941**		**24,614.7022**	**24,614.7022**	**0.9326**		**24,638.0160**

3.5 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.7441					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6592**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.5 Paving - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0402	0.0184	0.2787	9.5000e-004	0.1232	6.4000e-004	0.1239	0.0327	5.8000e-004	0.0333		94.6077	94.6077	1.7600e-003		94.6518
Total	**0.0402**	**0.0184**	**0.2787**	**9.5000e-004**	**0.1232**	**6.4000e-004**	**0.1239**	**0.0327**	**5.8000e-004**	**0.0333**		**94.6077**	**94.6077**	**1.7600e-003**		**94.6518**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.7441					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6592**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.5 Paving - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0402	0.0184	0.2787	9.5000e-004	0.1232	6.4000e-004	0.1239	0.0327	5.8000e-004	0.0333		94.6077	94.6077	1.7600e-003		94.6518
Total	**0.0402**	**0.0184**	**0.2787**	**9.5000e-004**	**0.1232**	**6.4000e-004**	**0.1239**	**0.0327**	**5.8000e-004**	**0.0333**		**94.6077**	**94.6077**	**1.7600e-003**		**94.6518**

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	134.4028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**134.5737**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7663	0.3499	5.3136	0.0181	2.3494	0.0121	2.3615	0.6232	0.0112	0.6343		1,803.8532	1,803.8532	0.0336		1,804.6935
Total	**0.7663**	**0.3499**	**5.3136**	**0.0181**	**2.3494**	**0.0121**	**2.3615**	**0.6232**	**0.0112**	**0.6343**		**1,803.8532**	**1,803.8532**	**0.0336**		**1,804.6935**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	134.4028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**134.5737**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7663	0.3499	5.3136	0.0181	2.3494	0.0121	2.3615	0.6232	0.0112	0.6343		1,803.8532	1,803.8532	0.0336		1,804.6935
Total	**0.7663**	**0.3499**	**5.3136**	**0.0181**	**2.3494**	**0.0121**	**2.3615**	**0.6232**	**0.0112**	**0.6343**		**1,803.8532**	**1,803.8532**	**0.0336**		**1,804.6935**

3.6 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	134.4028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**134.5737**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7143	0.3203	4.9682	0.0176	2.3494	0.0113	2.3607	0.6232	0.0104	0.6335		1,754.5537	1,754.5537	0.0306		1,755.3190
Total	**0.7143**	**0.3203**	**4.9682**	**0.0176**	**2.3494**	**0.0113**	**2.3607**	**0.6232**	**0.0104**	**0.6335**		**1,754.5537**	**1,754.5537**	**0.0306**		**1,755.3190**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	134.4028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**134.5737**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7143	0.3203	4.9682	0.0176	2.3494	0.0113	2.3607	0.6232	0.0104	0.6335		1,754.5537	1,754.5537	0.0306		1,755.3190
Total	**0.7143**	**0.3203**	**4.9682**	**0.0176**	**2.3494**	**0.0113**	**2.3607**	**0.6232**	**0.0104**	**0.6335**		**1,754.5537**	**1,754.5537**	**0.0306**		**1,755.3190**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.1954	57.6927	32.8878	0.2669	13.7962	0.1597	13.9559	3.7354	0.1510	3.8864		27,774.4605	27,774.4605	1.3008		27,806.9803
Unmitigated	3.1954	57.6927	32.8878	0.2669	13.7962	0.1597	13.9559	3.7354	0.1510	3.8864		27,774.4605	27,774.4605	1.3008		27,806.9803

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	2,147.18	2,147.18	2147.18	6,268,711	6,268,711
Total	2,147.18	2,147.18	2,147.18	6,268,711	6,268,711

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Refrigerated Warehouse-No Rail	0.650000	0.000000	0.000000	0.000000	0.120000	0.000000	0.040000	0.190000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.5489	14.0809	11.8280	0.0845		1.0702	1.0702		1.0702	1.0702		16,897.1333	16,897.1333	0.3239	0.3098	16,997.5446
NaturalGas Unmitigated	1.5489	14.0809	11.8280	0.0845		1.0702	1.0702		1.0702	1.0702		16,897.1333	16,897.1333	0.3239	0.3098	16,997.5446

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	143626	1.5489	14.0809	11.8280	0.0845		1.0702	1.0702		1.0702	1.0702		16,897.1333	16,897.1333	0.3239	0.3098	16,997.5446
Total		**1.5489**	**14.0809**	**11.8280**	**0.0845**		**1.0702**	**1.0702**		**1.0702**	**1.0702**		**16,897.1333**	**16,897.1333**	**0.3239**	**0.3098**	**16,997.5446**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	143.626	1.5489	14.0809	11.8280	0.0845		1.0702	1.0702		1.0702	1.0702		16,897.1333	16,897.1333	0.3239	0.3098	16,997.5446
Total		**1.5489**	**14.0809**	**11.8280**	**0.0845**		**1.0702**	**1.0702**		**1.0702**	**1.0702**		**16,897.1333**	**16,897.1333**	**0.3239**	**0.3098**	**16,997.5446**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	29.4387	3.1600e-003	0.3473	3.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003		0.7446	0.7446	1.9500e-003		0.7934
Unmitigated	29.4387	3.1600e-003	0.3473	3.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003		0.7446	0.7446	1.9500e-003		0.7934

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.8859					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.5206					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0322	3.1600e-003	0.3473	3.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003		0.7446	0.7446	1.9500e-003		0.7934
Total	**29.4387**	**3.1600e-003**	**0.3473**	**3.0000e-005**		**1.2400e-003**	**1.2400e-003**		**1.2400e-003**	**1.2400e-003**		**0.7446**	**0.7446**	**1.9500e-003**		**0.7934**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.8859					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.5206					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0322	3.1600e-003	0.3473	3.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003		0.7446	0.7446	1.9500e-003		0.7934
Total	**29.4387**	**3.1600e-003**	**0.3473**	**3.0000e-005**		**1.2400e-003**	**1.2400e-003**		**1.2400e-003**	**1.2400e-003**		**0.7446**	**0.7446**	**1.9500e-003**		**0.7934**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

US Cold Storage Hesperia

San Bernardino-Mojave Desert County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	1,012.82	1000sqft	23.25	1,012,816.00	0
Other Non-Asphalt Surfaces	1,028.71	1000sqft	23.62	1,028,706.00	0
Parking Lot	1,360.81	1000sqft	31.24	1,360,814.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Applicant will extend painting period for up to 187 days

Vehicle Trips - Per TIA

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Fleet Mix - Per TIA

US Cold Storage Hesperia - San Bernardino-Mojave Desert County, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	110.00	187.00
tblConstructionPhase	PhaseEndDate	2/7/2029	5/25/2029
tblFleetMix	HHD	0.06	0.19
tblFleetMix	LDA	0.56	0.65
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.12
tblFleetMix	LHD2	4.9390e-003	0.00
tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblLandUse	LandUseSquareFeet	1,012,820.00	1,012,816.00
tblLandUse	LandUseSquareFeet	1,028,710.00	1,028,706.00
tblLandUse	LandUseSquareFeet	1,360,810.00	1,360,814.00
tblVehicleTrips	ST_TR	1.68	2.12
tblVehicleTrips	SU_TR	1.68	2.12
tblVehicleTrips	WD_TR	1.68	2.12

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2720	46.4502	31.4029	0.0635	18.2141	2.0454	20.2596	9.9699	1.8818	11.8517	0.0000	6,152.4093	6,152.4093	1.9470	0.0000	6,201.0830
2022	8.5686	70.1248	61.9071	0.2769	15.5190	1.6359	16.4872	4.2020	1.5051	5.1452	0.0000	28,337.0742	28,337.0742	1.9631	0.0000	28,386.1518
2023	7.7341	56.7220	57.2415	0.2690	15.5189	0.8145	16.3334	4.2020	0.7655	4.9675	0.0000	27,538.3721	27,538.3721	1.7171	0.0000	27,581.2989
2024	7.3246	55.7200	54.6231	0.2657	15.5189	0.7271	16.2460	4.2020	0.6831	4.8851	0.0000	27,215.0602	27,215.0602	1.6927	0.0000	27,257.3780
2025	6.9276	54.2344	51.9560	0.2611	15.5188	0.6393	16.1581	4.2020	0.6005	4.8025	0.0000	26,760.2472	26,760.2472	1.6645	0.0000	26,801.8592
2026	6.6715	53.7476	49.7585	0.2571	15.5188	0.6364	16.1552	4.2020	0.5979	4.7998	0.0000	26,354.2419	26,354.2419	1.6402	0.0000	26,395.2464
2027	6.4259	53.2985	47.8204	0.2535	15.5188	0.6322	16.1509	4.2020	0.5939	4.7959	0.0000	25,998.4315	25,998.4315	1.6169	0.0000	26,038.8529
2028	135.3361	52.9273	46.1428	0.2504	15.5188	0.6271	16.1458	4.2019	0.5892	4.7911	0.0000	25,688.3943	25,688.3943	1.5944	0.0000	25,728.2547
2029	135.2852	1.4811	5.8902	0.0188	2.3494	0.0628	2.4122	0.6232	0.0619	0.6850	0.0000	1,856.4525	1,856.4525	0.0425	0.0000	1,857.5137
Maximum	**135.3361**	**70.1248**	**61.9071**	**0.2769**	**18.2141**	**2.0454**	**20.2596**	**9.9699**	**1.8818**	**11.8517**	**0.0000**	**28,337.0742**	**28,337.0742**	**1.9631**	**0.0000**	**28,386.1518**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2720	46.4502	31.4029	0.0635	8.2777	2.0454	10.3231	4.5080	1.8818	6.3898	0.0000	6,152.4093	6,152.4093	1.9470	0.0000	6,201.0830
2022	8.5686	70.1248	61.9071	0.2769	15.5190	1.6359	16.4872	4.2020	1.5051	5.1127	0.0000	28,337.0742	28,337.0742	1.9631	0.0000	28,386.1518
2023	7.7341	56.7220	57.2415	0.2690	15.5189	0.8145	16.3334	4.2020	0.7655	4.9675	0.0000	27,538.3721	27,538.3721	1.7171	0.0000	27,581.2989
2024	7.3246	55.7200	54.6231	0.2657	15.5189	0.7271	16.2460	4.2020	0.6831	4.8851	0.0000	27,215.0602	27,215.0602	1.6927	0.0000	27,257.3780
2025	6.9276	54.2344	51.9560	0.2611	15.5188	0.6393	16.1581	4.2020	0.6005	4.8025	0.0000	26,760.2472	26,760.2472	1.6645	0.0000	26,801.8592
2026	6.6715	53.7476	49.7585	0.2571	15.5188	0.6364	16.1552	4.2020	0.5979	4.7998	0.0000	26,354.2419	26,354.2419	1.6402	0.0000	26,395.2464
2027	6.4259	53.2985	47.8204	0.2535	15.5188	0.6322	16.1509	4.2020	0.5939	4.7959	0.0000	25,998.4315	25,998.4315	1.6169	0.0000	26,038.8529
2028	135.3361	52.9273	46.1428	0.2504	15.5188	0.6271	16.1458	4.2019	0.5892	4.7911	0.0000	25,688.3943	25,688.3943	1.5944	0.0000	25,728.2547
2029	135.2852	1.4811	5.8902	0.0188	2.3494	0.0628	2.4122	0.6232	0.0619	0.6850	0.0000	1,856.4525	1,856.4525	0.0425	0.0000	1,857.5137
Maximum	**135.3361**	**70.1248**	**61.9071**	**0.2769**	**15.5190**	**2.0454**	**16.4872**	**4.5080**	**1.8818**	**6.3898**	**0.0000**	**28,337.0742**	**28,337.0742**	**1.9631**	**0.0000**	**28,386.1518**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**7.69**	**0.00**	**7.29**	**13.65**	**0.00**	**11.76**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.4387	3.1600e-003	0.3473	3.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003		0.7446	0.7446	1.9500e-003		0.7934
Energy	1.5489	14.0809	11.8280	0.0845		1.0702	1.0702		1.0702	1.0702		16,897.1333	16,897.1333	0.3239	0.3098	16,997.5446
Mobile	3.0230	57.3264	31.0960	0.2520	13.7962	0.1617	13.9579	3.7354	0.1529	3.8883		26,236.6134	26,236.6134	1.4032		26,271.6934
Total	**34.0105**	**71.4105**	**43.2714**	**0.3365**	**13.7962**	**1.2331**	**15.0293**	**3.7354**	**1.2243**	**4.9597**		**43,134.4914**	**43,134.4914**	**1.7290**	**0.3098**	**43,270.0313**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.4387	3.1600e-003	0.3473	3.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003		0.7446	0.7446	1.9500e-003		0.7934
Energy	1.5489	14.0809	11.8280	0.0845		1.0702	1.0702		1.0702	1.0702		16,897.1333	16,897.1333	0.3239	0.3098	16,997.5446
Mobile	3.0230	57.3264	31.0960	0.2520	13.7962	0.1617	13.9579	3.7354	0.1529	3.8883		26,236.6134	26,236.6134	1.4032		26,271.6934
Total	**34.0105**	**71.4105**	**43.2714**	**0.3365**	**13.7962**	**1.2331**	**15.0293**	**3.7354**	**1.2243**	**4.9597**		**43,134.4914**	**43,134.4914**	**1.7290**	**0.3098**	**43,270.0313**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2021	9/22/2021	5	60	
2	Grading	Grading	9/23/2021	4/27/2022	5	155	
3	Building Construction	Building Construction	4/28/2022	4/5/2028	5	1550	
4	Paving	Paving	4/6/2028	9/6/2028	5	110	
5	Architectural Coating	Architectural Coating	9/7/2028	5/25/2029	5	187	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 387.5

Acres of Paving: 54.86

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,519,224; Non-Residential Outdoor: 506,408; Striped Parking Area: 143,371 (Architectural Coating – sqft)

OffRoad Equipment

US Cold Storage Hesperia - San Bernardino-Mojave Desert County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,429.00	558.00	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	286.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0728	0.0453	0.4720	1.3100e-003	0.1479	9.8000e-004	0.1488	0.0392	9.0000e-004	0.0401		130.8293	130.8293	3.7300e-003		130.9226
Total	**0.0728**	**0.0453**	**0.4720**	**1.3100e-003**	**0.1479**	**9.8000e-004**	**0.1488**	**0.0392**	**9.0000e-004**	**0.0401**		**130.8293**	**130.8293**	**3.7300e-003**		**130.9226**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**8.1298**	**2.0445**	**10.1743**	**4.4688**	**1.8809**	**6.3497**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0728	0.0453	0.4720	1.3100e-003	0.1479	9.8000e-004	0.1488	0.0392	9.0000e-004	0.0401		130.8293	130.8293	3.7300e-003		130.9226
Total	**0.0728**	**0.0453**	**0.4720**	**1.3100e-003**	**0.1479**	**9.8000e-004**	**0.1488**	**0.0392**	**9.0000e-004**	**0.0401**		**130.8293**	**130.8293**	**3.7300e-003**		**130.9226**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0808	0.0503	0.5245	1.4600e-003	0.1643	1.0800e-003	0.1654	0.0436	1.0000e-003	0.0446		145.3658	145.3658	4.1500e-003		145.4696
Total	**0.0808**	**0.0503**	**0.5245**	**1.4600e-003**	**0.1643**	**1.0800e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**145.3658**	**145.3658**	**4.1500e-003**		**145.4696**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**3.9030**	**1.9853**	**5.8883**	**1.6184**	**1.8265**	**3.4449**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0808	0.0503	0.5245	1.4600e-003	0.1643	1.0800e-003	0.1654	0.0436	1.0000e-003	0.0446		145.3658	145.3658	4.1500e-003		145.4696
Total	**0.0808**	**0.0503**	**0.5245**	**1.4600e-003**	**0.1643**	**1.0800e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**145.3658**	**145.3658**	**4.1500e-003**		**145.4696**

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.3 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0756	0.0452	0.4806	1.4100e-003	0.1643	1.0500e-003	0.1654	0.0436	9.7000e-004	0.0446		140.1334	140.1334	3.7200e-003		140.2265
Total	**0.0756**	**0.0452**	**0.4806**	**1.4100e-003**	**0.1643**	**1.0500e-003**	**0.1654**	**0.0436**	**9.7000e-004**	**0.0446**		**140.1334**	**140.1334**	**3.7200e-003**		**140.2265**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**3.9030**	**1.6349**	**5.5379**	**1.6184**	**1.5041**	**3.1225**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.3 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0756	0.0452	0.4806	1.4100e-003	0.1643	1.0500e-003	0.1654	0.0436	9.7000e-004	0.0446		140.1334	140.1334	3.7200e-003		140.2265
Total	**0.0756**	**0.0452**	**0.4806**	**1.4100e-003**	**0.1643**	**1.0500e-003**	**0.1654**	**0.0436**	**9.7000e-004**	**0.0446**		**140.1334**	**140.1334**	**3.7200e-003**		**140.2265**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.4626	51.2801	11.2025	0.1495	3.7801	0.0839	3.8640	1.0883	0.0802	1.1685		15,770.2092	15,770.2092	1.0852		15,797.3391
Worker	5.3997	3.2290	34.3412	0.1005	11.7389	0.0753	11.8142	3.1137	0.0693	3.1830		10,012.5314	10,012.5314	0.2660		10,019.1805
Total	**6.8623**	**54.5092**	**45.5437**	**0.2500**	**15.5190**	**0.1591**	**15.6781**	**4.2020**	**0.1495**	**4.3515**		**25,782.7406**	**25,782.7406**	**1.3512**		**25,816.5196**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.4626	51.2801	11.2025	0.1495	3.7801	0.0839	3.8640	1.0883	0.0802	1.1685		15,770.2092	15,770.2092	1.0852		15,797.3391
Worker	5.3997	3.2290	34.3412	0.1005	11.7389	0.0753	11.8142	3.1137	0.0693	3.1830		10,012.5314	10,012.5314	0.2660		10,019.1805
Total	**6.8623**	**54.5092**	**45.5437**	**0.2500**	**15.5190**	**0.1591**	**15.6781**	**4.2020**	**0.1495**	**4.3515**		**25,782.7406**	**25,782.7406**	**1.3512**		**25,816.5196**

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1022	39.4324	9.5364	0.1454	3.7800	0.0415	3.8215	1.0883	0.0397	1.1280		15,346.2255	15,346.2255	0.8710		15,367.9994
Worker	5.0592	2.9048	31.4611	0.0967	11.7389	0.0732	11.8121	3.1137	0.0674	3.1811		9,636.9367	9,636.9367	0.2383		9,642.8935
Total	**6.1614**	**42.3371**	**40.9975**	**0.2421**	**15.5189**	**0.1147**	**15.6337**	**4.2020**	**0.1071**	**4.3091**		**24,983.1622**	**24,983.1622**	**1.1092**		**25,010.8929**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1022	39.4324	9.5364	0.1454	3.7800	0.0415	3.8215	1.0883	0.0397	1.1280		15,346.2255	15,346.2255	0.8710		15,367.9994
Worker	5.0592	2.9048	31.4611	0.0967	11.7389	0.0732	11.8121	3.1137	0.0674	3.1811		9,636.9367	9,636.9367	0.2383		9,642.8935
Total	**6.1614**	**42.3371**	**40.9975**	**0.2421**	**15.5189**	**0.1147**	**15.6337**	**4.2020**	**0.1071**	**4.3091**		**24,983.1622**	**24,983.1622**	**1.1092**		**25,010.8929**

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0871	39.6471	9.2010	0.1452	3.7800	0.0413	3.8213	1.0883	0.0395	1.1277		15,334.9822	15,334.9822	0.8709		15,356.7553
Worker	4.7659	2.6292	29.2553	0.0935	11.7389	0.0725	11.8114	3.1137	0.0668	3.1805		9,324.3791	9,324.3791	0.2174		9,329.8150
Total	**5.8530**	**42.2762**	**38.4563**	**0.2388**	**15.5189**	**0.1138**	**15.6327**	**4.2020**	**0.1062**	**4.3082**		**24,659.3613**	**24,659.3613**	**1.0884**		**24,686.5703**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0871	39.6471	9.2010	0.1452	3.7800	0.0413	3.8213	1.0883	0.0395	1.1277		15,334.9822	15,334.9822	0.8709		15,356.7553
Worker	4.7659	2.6292	29.2553	0.0935	11.7389	0.0725	11.8114	3.1137	0.0668	3.1805		9,324.3791	9,324.3791	0.2174		9,329.8150
Total	**5.8530**	**42.2762**	**38.4563**	**0.2388**	**15.5189**	**0.1138**	**15.6327**	**4.2020**	**0.1062**	**4.3082**		**24,659.3613**	**24,659.3613**	**1.0884**		**24,686.5703**

3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.4 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0593	39.3774	8.8596	0.1444	3.7799	0.0407	3.8206	1.0883	0.0389	1.1271		15,249.3553	15,249.3553	0.8670		15,271.0293
Worker	4.5010	2.3873	27.0117	0.0898	11.7389	0.0711	11.8100	3.1137	0.0654	3.1791		8,954.4175	8,954.4175	0.1966		8,959.3319
Total	**5.5602**	**41.7647**	**35.8714**	**0.2342**	**15.5188**	**0.1117**	**15.6306**	**4.2020**	**0.1043**	**4.3062**		**24,203.7729**	**24,203.7729**	**1.0635**		**24,230.3611**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.4 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0593	39.3774	8.8596	0.1444	3.7799	0.0407	3.8206	1.0883	0.0389	1.1271		15,249.3553	15,249.3553	0.8670		15,271.0293
Worker	4.5010	2.3873	27.0117	0.0898	11.7389	0.0711	11.8100	3.1137	0.0654	3.1791		8,954.4175	8,954.4175	0.1966		8,959.3319
Total	**5.5602**	**41.7647**	**35.8714**	**0.2342**	**15.5188**	**0.1117**	**15.6306**	**4.2020**	**0.1043**	**4.3062**		**24,203.7729**	**24,203.7729**	**1.0635**		**24,230.3611**

3.4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.4 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0357	39.0961	8.5969	0.1436	3.7799	0.0401	3.8200	1.0883	0.0383	1.1265		15,167.9761	15,167.9761	0.8606		15,189.4920
Worker	4.2684	2.1818	25.0769	0.0865	11.7389	0.0688	11.8077	3.1137	0.0633	3.1770		8,629.7914	8,629.7914	0.1786		8,634.2564
Total	**5.3041**	**41.2779**	**33.6738**	**0.2301**	**15.5188**	**0.1089**	**15.6277**	**4.2020**	**0.1016**	**4.3036**		**23,797.7675**	**23,797.7675**	**1.0392**		**23,823.7484**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.4 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0357	39.0961	8.5969	0.1436	3.7799	0.0401	3.8200	1.0883	0.0383	1.1265		15,167.9761	15,167.9761	0.8606		15,189.4920
Worker	4.2684	2.1818	25.0769	0.0865	11.7389	0.0688	11.8077	3.1137	0.0633	3.1770		8,629.7914	8,629.7914	0.1786		8,634.2564
Total	**5.3041**	**41.2779**	**33.6738**	**0.2301**	**15.5188**	**0.1089**	**15.6277**	**4.2020**	**0.1016**	**4.3036**		**23,797.7675**	**23,797.7675**	**1.0392**		**23,823.7484**

3.4 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.4 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0159	38.8311	8.3787	0.1429	3.7799	0.0394	3.8193	1.0883	0.0377	1.1259		15,098.8034	15,098.8034	0.8533		15,120.1367
Worker	4.0426	1.9978	23.3570	0.0837	11.7389	0.0652	11.8041	3.1137	0.0600	3.1737		8,343.1537	8,343.1537	0.1626		8,347.2181
Total	**5.0585**	**40.8288**	**31.7358**	**0.2265**	**15.5188**	**0.1046**	**15.6234**	**4.2020**	**0.0976**	**4.2996**		**23,441.9571**	**23,441.9571**	**1.0159**		**23,467.3548**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.4 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0159	38.8311	8.3787	0.1429	3.7799	0.0394	3.8193	1.0883	0.0377	1.1259		15,098.8034	15,098.8034	0.8533		15,120.1367
Worker	4.0426	1.9978	23.3570	0.0837	11.7389	0.0652	11.8041	3.1137	0.0600	3.1737		8,343.1537	8,343.1537	0.1626		8,347.2181
Total	**5.0585**	**40.8288**	**31.7358**	**0.2265**	**15.5188**	**0.1046**	**15.6234**	**4.2020**	**0.0976**	**4.2996**		**23,441.9571**	**23,441.9571**	**1.0159**		**23,467.3548**

3.4 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.4 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9995	38.6246	8.2082	0.1423	3.7799	0.0390	3.8188	1.0882	0.0373	1.1255		15,040.5164	15,040.5164	0.8447		15,061.6346
Worker	3.8095	1.8329	21.8499	0.0811	11.7389	0.0605	11.7994	3.1137	0.0557	3.1694		8,091.4036	8,091.4036	0.1487		8,095.1220
Total	**4.8089**	**40.4576**	**30.0581**	**0.2234**	**15.5188**	**0.0995**	**15.6183**	**4.2019**	**0.0929**	**4.2949**		**23,131.9200**	**23,131.9200**	**0.9935**		**23,156.7566**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.4 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9995	38.6246	8.2082	0.1423	3.7799	0.0390	3.8188	1.0882	0.0373	1.1255		15,040.5164	15,040.5164	0.8447		15,061.6346
Worker	3.8095	1.8329	21.8499	0.0811	11.7389	0.0605	11.7994	3.1137	0.0557	3.1694		8,091.4036	8,091.4036	0.1487		8,095.1220
Total	**4.8089**	**40.4576**	**30.0581**	**0.2234**	**15.5188**	**0.0995**	**15.6183**	**4.2019**	**0.0929**	**4.2949**		**23,131.9200**	**23,131.9200**	**0.9935**		**23,156.7566**

3.5 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.7441					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6592**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.5 Paving - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0400	0.0192	0.2294	8.5000e-004	0.1232	6.4000e-004	0.1239	0.0327	5.8000e-004	0.0333		84.9343	84.9343	1.5600e-003		84.9733
Total	**0.0400**	**0.0192**	**0.2294**	**8.5000e-004**	**0.1232**	**6.4000e-004**	**0.1239**	**0.0327**	**5.8000e-004**	**0.0333**		**84.9343**	**84.9343**	**1.5600e-003**		**84.9733**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.7441					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6592**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.5 Paving - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0400	0.0192	0.2294	8.5000e-004	0.1232	6.4000e-004	0.1239	0.0327	5.8000e-004	0.0333		84.9343	84.9343	1.5600e-003		84.9733
Total	**0.0400**	**0.0192**	**0.2294**	**8.5000e-004**	**0.1232**	**6.4000e-004**	**0.1239**	**0.0327**	**5.8000e-004**	**0.0333**		**84.9343**	**84.9343**	**1.5600e-003**		**84.9733**

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	134.4028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**134.5737**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7624	0.3668	4.3730	0.0162	2.3494	0.0121	2.3615	0.6232	0.0112	0.6343		1,619.4132	1,619.4132	0.0298		1,620.1574
Total	**0.7624**	**0.3668**	**4.3730**	**0.0162**	**2.3494**	**0.0121**	**2.3615**	**0.6232**	**0.0112**	**0.6343**		**1,619.4132**	**1,619.4132**	**0.0298**		**1,620.1574**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	134.4028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**134.5737**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7624	0.3668	4.3730	0.0162	2.3494	0.0121	2.3615	0.6232	0.0112	0.6343		1,619.4132	1,619.4132	0.0298		1,620.1574
Total	**0.7624**	**0.3668**	**4.3730**	**0.0162**	**2.3494**	**0.0121**	**2.3615**	**0.6232**	**0.0112**	**0.6343**		**1,619.4132**	**1,619.4132**	**0.0298**		**1,620.1574**

3.6 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	134.4028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**134.5737**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7115	0.3356	4.0811	0.0158	2.3494	0.0113	2.3607	0.6232	0.0104	0.6335		1,575.0045	1,575.0045	0.0271		1,575.6819
Total	**0.7115**	**0.3356**	**4.0811**	**0.0158**	**2.3494**	**0.0113**	**2.3607**	**0.6232**	**0.0104**	**0.6335**		**1,575.0045**	**1,575.0045**	**0.0271**		**1,575.6819**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	134.4028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**134.5737**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7115	0.3356	4.0811	0.0158	2.3494	0.0113	2.3607	0.6232	0.0104	0.6335		1,575.0045	1,575.0045	0.0271		1,575.6819
Total	**0.7115**	**0.3356**	**4.0811**	**0.0158**	**2.3494**	**0.0113**	**2.3607**	**0.6232**	**0.0104**	**0.6335**		**1,575.0045**	**1,575.0045**	**0.0271**		**1,575.6819**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.0230	57.3264	31.0960	0.2520	13.7962	0.1617	13.9579	3.7354	0.1529	3.8883		26,236.6134	26,236.6134	1.4032		26,271.6934
Unmitigated	3.0230	57.3264	31.0960	0.2520	13.7962	0.1617	13.9579	3.7354	0.1529	3.8883		26,236.6134	26,236.6134	1.4032		26,271.6934

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	2,147.18	2,147.18	2147.18	6,268,711	6,268,711
Total	2,147.18	2,147.18	2,147.18	6,268,711	6,268,711

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Refrigerated Warehouse-No Rail	0.650000	0.000000	0.000000	0.000000	0.120000	0.000000	0.040000	0.190000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.5489	14.0809	11.8280	0.0845		1.0702	1.0702		1.0702	1.0702		16,897.1333	16,897.1333	0.3239	0.3098	16,997.5446
NaturalGas Unmitigated	1.5489	14.0809	11.8280	0.0845		1.0702	1.0702		1.0702	1.0702		16,897.1333	16,897.1333	0.3239	0.3098	16,997.5446

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	143626	1.5489	14.0809	11.8280	0.0845		1.0702	1.0702		1.0702	1.0702		16,897.1333	16,897.1333	0.3239	0.3098	16,997.5446
Total		**1.5489**	**14.0809**	**11.8280**	**0.0845**		**1.0702**	**1.0702**		**1.0702**	**1.0702**		**16,897.1333**	**16,897.1333**	**0.3239**	**0.3098**	**16,997.5446**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	143.626	1.5489	14.0809	11.8280	0.0845		1.0702	1.0702		1.0702	1.0702		16,897.1333	16,897.1333	0.3239	0.3098	16,997.5446
Total		**1.5489**	**14.0809**	**11.8280**	**0.0845**		**1.0702**	**1.0702**		**1.0702**	**1.0702**		**16,897.1333**	**16,897.1333**	**0.3239**	**0.3098**	**16,997.5446**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	29.4387	3.1600e-003	0.3473	3.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003		0.7446	0.7446	1.9500e-003		0.7934
Unmitigated	29.4387	3.1600e-003	0.3473	3.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003		0.7446	0.7446	1.9500e-003		0.7934

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.8859					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.5206					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0322	3.1600e-003	0.3473	3.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003		0.7446	0.7446	1.9500e-003		0.7934
Total	**29.4387**	**3.1600e-003**	**0.3473**	**3.0000e-005**		**1.2400e-003**	**1.2400e-003**		**1.2400e-003**	**1.2400e-003**		**0.7446**	**0.7446**	**1.9500e-003**		**0.7934**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.8859					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.5206					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0322	3.1600e-003	0.3473	3.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003		0.7446	0.7446	1.9500e-003		0.7934
Total	**29.4387**	**3.1600e-003**	**0.3473**	**3.0000e-005**		**1.2400e-003**	**1.2400e-003**		**1.2400e-003**	**1.2400e-003**		**0.7446**	**0.7446**	**1.9500e-003**		**0.7934**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation