AIR QUALITY ASSESSMENT

Green Storage Valley Center Expansion
PDS2019-IC-19-002
Valley Center, CA

Lead Agency:

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EXECUTIVE SUMMARY

This air quality impact study has been completed to determine the air quality impacts associated with the development of the proposed Green's Self Storage Expansion Development. The project is located at 28435 Lizard Rocks Road in the unincorporated County of San Diego in the town of Valley Center. The applicant seeks to expand the storage facility by constructing additional storage space on an adjacent property which would require a two-lot merger to expand the-mini-warehouse complex. Under the plan the project would demolish three structures with a total combined size of approximately 3,500 square feet (SF). The project would then construct a single structure having a total size of 36,724 SF which would be used for self-storage purposes.

It should be noted: conservatively, the analysis and modeling are based on a larger project consisting of 48, 087 SF which would generate more construction and operational emissions than the proposed project. Based upon the analysis of construction and operation activities for the proposed Project would generate less than significant direct operational and direct construction impacts related to fugitive dust. It was found that significant cancer health risks could be tied to construction and therefore would require mitigation to comply. Using Tier 4 construction equipment with Diesel Particulate Filters (DPF) attached would reduce cancer risks to less than significant at all receptors surrounding the Project site.

The site is subject to the General Plan Regional Category Village, Land Use Designation Limited Impact Industrial. Zoning for the site is M52 (Limited Industrial). The M52 – Limited Industrial zoning allows for wide range of industrial and commercial uses frequently associated with industrial operations; such as wholesaling, auto and truck repair and administrative and professional offices. The proposed Project conforms to the existing zoning and would be consistent with the growth assumptions in the General Plan and would not conflict with the County's ability to comply with the RAQS/SIP. The RAQS/SIP were prepared to demonstrate consistency with ambient air quality standards intended to be protective of human health, thus compliance with these regulations would indicate the project is not anticipated to result in adverse human health impacts. Finally, the project would generate short-term construction odors, but these impacts would not be considered significant. The project would not generate long term odor impacts. Based on this, no significant odor impacts are expected.

Based on this analysis, the project would be required to implement one mitigation measure to reduce air quality impacts to less than significant as identified below:

> *Construction Mitigation Measure 1: Ensure that all heavy diesel construction equipment is classified as Tier 4 at a minimum and includes diesel particulate filters. This will also satisfy health risk impacts related to diesel particulates under T-BACT guidelines.*

1.0 INTRODUCTION

1.1 Purpose of this Study

The purpose of this air quality study is to determine potential air quality impacts (if any) that may be created by construction or operational emissions (short term or long term) from the proposed Project. Should impacts be determined, the intent of this study would be to recommend suitable mitigation measures to reduce impacts to the extent feasible.

1.2 Project Location

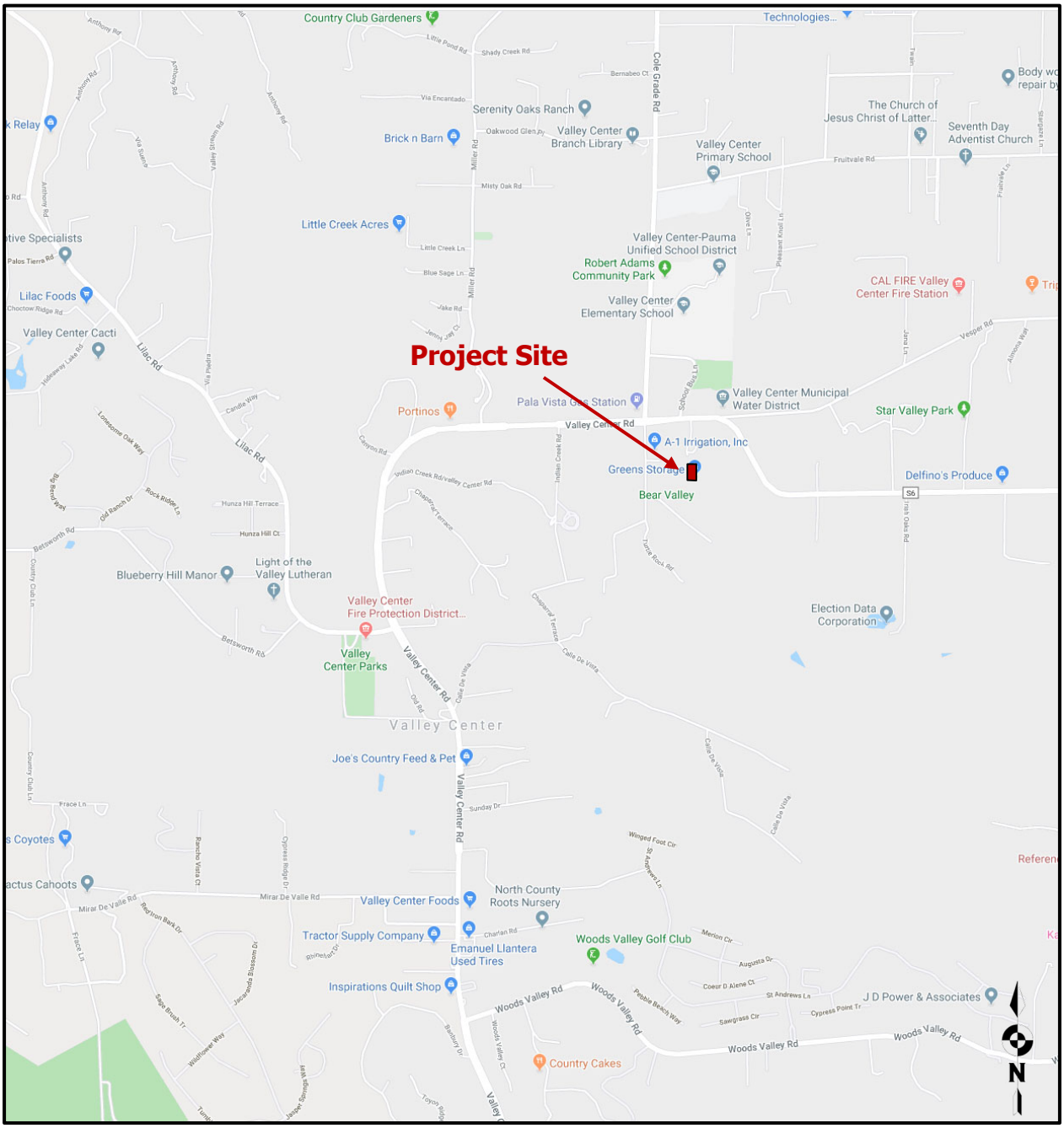
The proposed development is located at 28435 Lizard Rocks Road in the unincorporated County of San Diego in the town of Valley Center. The project is located east of Lizard Rocks Road and South of Valley Center Road. Access to the Project site would be provided along Lizard Rocks Road. A general project vicinity map is shown in Figure 1-A on the following page.

1.3 Project Description

The applicant operates an existing storage facility under site plan S03-026. The applicant seeks to expand the storage area by constructing additional storage space on an adjacent property which would require a two-lot merger to expand the-mini-warehouse complex. Under the plan the project would demolish three structures with a total combined size of approximately 3,500 square feet (SF). The project would then construct a single structure having a total size of 36,724 SF which would be used for self-storage purposes. It should be noted: The project was previously considered at 48,087 SF, but the final proposed project is 36,724 SF. However, to represent a conservative analysis, this study assumes the larger project would be developed.

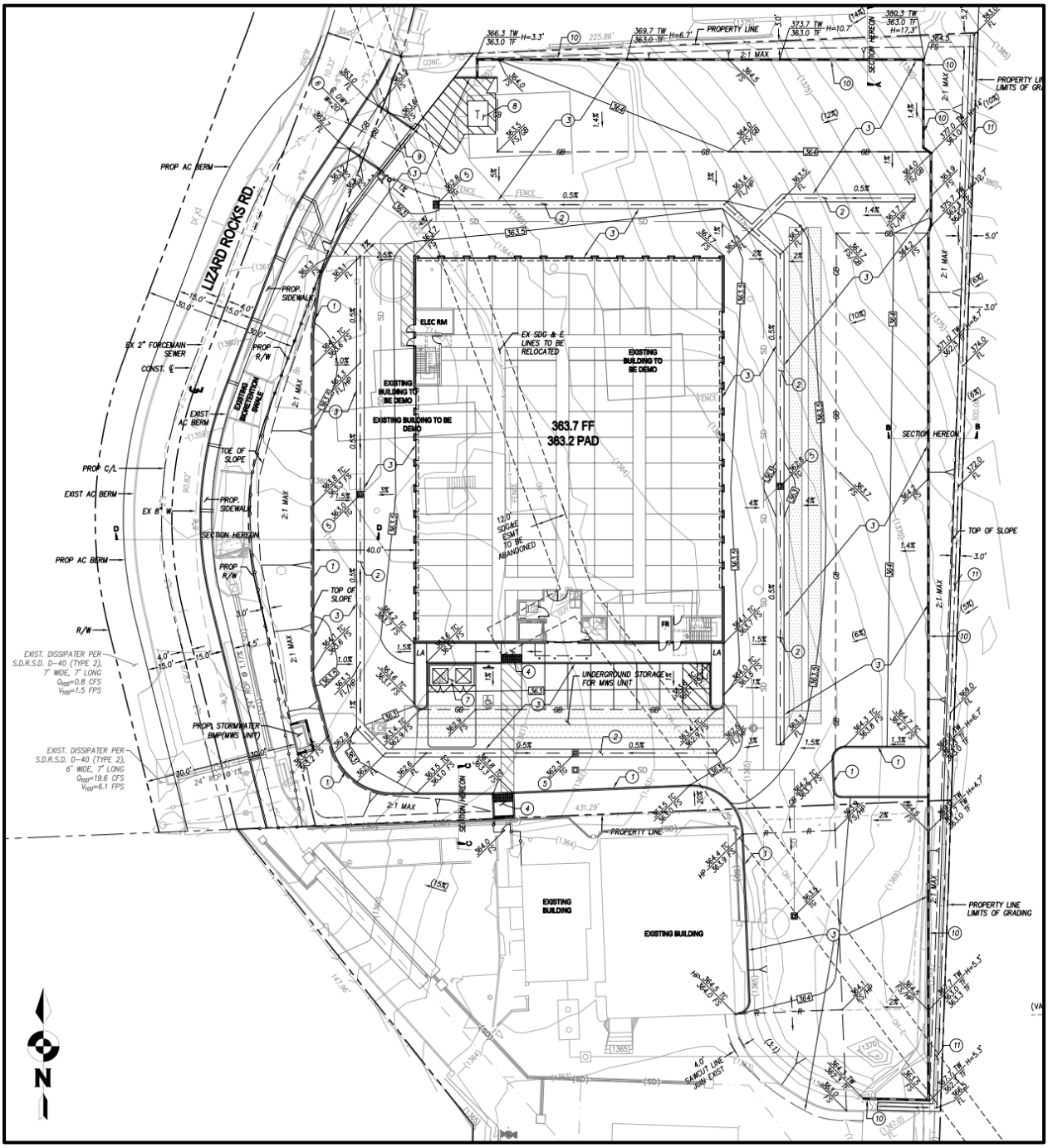
Construction of the project is proposed in early 2021 with full buildout roughly one year later and operations expected in 2022. The first complete year of operations would be expected in 2023. The project site plan is shown on in Figure 1-B on Page 3 of this report.

Figure 1-A: Project Vicinity Map



Source: (Google, 2020)

Figure 1-B: Proposed Project Site Plan



Source: (DRC Engineering, Inc., 2020)

2.0 EXISTING ENVIRONMENTAL SETTING

2.1 Existing Setting

The site is subject to the General Plan Regional Category Village, Land Use Designation Limited Impact Industrial. Zoning for the site is M52 (Limited Industrial). The project site is subject to Special Area B which requires a Site Plan and the recommendation of the Valley Center Design Review Board. The project site is surrounded by mostly light and commercial developments. Also, it should be noted that the learning jungle preschool is located approximately 85 meters (275 feet) to the northwest. The subject property is generally disturbed and has three structures onsite which will be demolished by the proposed Project. Elevations onsite average about 1,370 feet above mean sea level (AMSL).

2.2 Climate and Meteorology

Climate within the San Diego Air Basin (SDAB) area often varies dramatically over short geographical distances with cooler temperatures on the western coast gradually warming to the east as prevailing winds from the west heat up. Most of southern California is dominated by high-pressure systems for much of the year, which keeps San Diego mostly sunny and warm. Typically, during the winter months, the high-pressure system drops to the south and brings cooler, moister weather from the north. It is common for inversion layers to develop within high-pressure areas, which mostly define pressure patterns over the SDAB. These inversions are caused when a thin layer of the atmosphere increases in temperature with height. An inversion acts like a lid preventing vertical mixing of air through convective overturning.

Meteorological trends within the Valley Center area are generally similar to that of Escondido daytime highs ranging between 65ºF in the winter to approximately 88ºF in the summer with August usually being the hottest month. Median temperatures range from approximately 57ºF in the winter to approximately 78ºF in the summer. Precipitation is generally about 16.2 inches per year (WRCC, 2018). Prevailing wind patterns for the area vary during any given month during the year and also vary depending on the time of day or night. The predominant pattern though throughout the year is usually from the west or westerly (WRCC, 2018).

2.3 Regulatory Standards

Regulatory Standards, which are made up of federal, state and local air quality standards are set with the intention to reduce human health impacts from exposure to pollutants. Based on these air quality standards, regional and local impact determinations under the California

Environmental Quality Act (CEQA) would also be assumed to reduce potential health impacts because they are tied to the higher regulations.

2.3.1 Federal Standards and Definitions

The Federal Air Quality Standards were developed per the requirements of The Federal Clean Air Act, which is a federal law that was passed in 1970 and further amended in 1990. This law provides the basis for the national air pollution control effort. An important element of the act included the development of national ambient air quality standards (NAAQS) for major air pollutants.

The Clean Air Act established two types of air quality standards otherwise known as primary and secondary standards. ***Primary Standards*** set limits for the intention of protecting public health, which includes sensitive populations such as asthmatics, children and elderly. ***Secondary Standards*** set limits to protect public welfare to include the protection against decreased visibility, damage to animals, crops, vegetation and buildings. The EPA Office of Air Quality Planning and Standards (OAQPS) has set NAAQS for principal pollutants, which are called "criteria" pollutants. These pollutants are defined below:

1. ***Carbon Monoxide (CO):*** *is a colorless, odorless, and tasteless gas and is produced from the partial combustion of carbon-containing compounds, notably in internal-combustion engines. Carbon monoxide usually forms when there is a reduced availability of oxygen present during the combustion process. Exposure to CO near the levels of the ambient air quality standards can lead to fatigue, headaches, confusion, and dizziness. CO interferes with the blood's ability to carry oxygen.*
2. ***Lead (Pb):*** *is a potent neurotoxin that accumulates in soft tissues and bone over time. The major sources of lead emissions have historically been motor vehicles (such as cars and trucks) and industrial sources. Because lead is only slowly excreted, exposures to small amounts of lead from a variety of sources can accumulate to harmful levels. Effects from inhalation of lead near the level of the ambient air quality standard include impaired blood formation and nerve conduction. Lead can adversely affect the nervous, reproductive, digestive, immune, and blood-forming systems. Symptoms can include fatigue, anxiety, short-term memory loss, depression, weakness in the extremities, and learning disabilities in children.*
3. ***Nitrogen Dioxide (NO_2):*** *is a reactive, oxidizing gas capable of damaging cells lining the respiratory tract and is one of the nitrogen oxides emitted from high-temperature combustion, such as those occurring in trucks, cars, power plants, home heaters, and gas stoves. In the presence of other air contaminants, NO_2 is usually visible as a reddish-brown air layer over urban areas. NO_2 along with other traffic-related pollutants is associated with respiratory symptoms, respiratory illness and respiratory impairment. Studies in animals have reported biochemical, structural, and cellular changes in the lung when exposed to NO_2 above the level of the current state air quality standard. Clinical studies of human subjects suggest that NO_2 exposure to levels near the current standard may worsen the effect of allergens in allergic asthmatics, especially in children.*
4. ***Particulate Matter (PM_{10} or $PM_{2.5}$):*** *is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary in shape, size and chemical composition, and can be made up of multiple materials such as metal, soot, soil, and dust. PM_{10} particles are 10 microns (µm) or less and $PM_{2.5}$ particles are 2.5 (µm) or*

less. These particles can contribute significantly to regional haze and reduction of visibility in California. Exposure to PM levels exceeding current air quality standards increases the risk of allergies such as asthma and respiratory illness.

5. ***Ozone (O_3)**: is a highly oxidative unstable gas capable of damaging the linings of the respiratory tract. This pollutant forms in the atmosphere through reactions between chemicals directly emitted from vehicles, industrial plants, and many other sources. Exposure to ozone above ambient air quality standards can lead to human health effects such as lung inflammation, tissue damage and impaired lung functioning. Ozone can also damage materials such as rubber, fabrics and plastics.*
6. ***Sulfur Dioxide (SO_2)**: is a gaseous compound of sulfur and oxygen and is formed when sulfur-containing fuel is burned by mobile sources, such as locomotives, ships, and off-road diesel equipment. SO_2 is also emitted from several industrial processes, such as petroleum refining and metal processing. Effects from SO_2 exposures at levels near the one-hour standard include bronchoconstriction accompanied by symptoms, which may include wheezing, shortness of breath and chest tightness, especially during exercise or physical activity. Children, the elderly, and people with asthma, cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most susceptible to these symptoms. Continued exposure at elevated levels of SO_2 results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality.*

2.3.2 State Standards and Definitions

CARB sets the laws and regulations for air quality on the state level. The California Ambient Air Quality Standards (CAAQS) is similar to the NAAQS and also restricts four additional contaminants. Table 2.1 on the following page identifies both the NAAQS and CAAQS. The additional contaminants as regulated by the CAAQS are defined below:

1. ***Visibility Reducing Particles**: Particles in the Air that obstruct the visibility.*
2. ***Sulfates**: are salts of Sulfuric Acid. Sulfates occur as microscopic particles (aerosols) resulting from fossil fuel and biomass combustion. They increase the acidity of the atmosphere and form acid rain.*
3. ***Hydrogen Sulfide (H_2S)**: is a colorless, toxic and flammable gas with a recognizable smell of rotten eggs or flatulence. H_2S occurs naturally in crude petroleum, natural gas, volcanic gases, and hot springs. Usually, H_2S is formed from bacterial breakdown of organic matter. Exposure to low concentrations of hydrogen sulfide may cause irritation to the eyes, nose, or throat. It may also cause difficulty in breathing for some asthmatics. Brief exposures to high concentrations of hydrogen sulfide (greater than 500 Parts per Million (ppm)) can cause a loss of consciousness and possibly death.*
4. ***Vinyl Chloride**: also known as chloroethene and is a toxic, carcinogenic, colorless gas with a sweet odor. It is an industrial chemical mainly used to produce its polymer, polyvinyl chloride (PVC).*

Table 2.1: Ambient Air Quality Standards

Ambient Air Quality Standards						
Pollutant	**Average 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/m3)	Ultraviolet Photometry	-	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m3)		0.070 ppm (137 µg/m3)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m3	Gravimetric or Beta Attenuation	150 µg/m3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m3		-		
Fine Particulate Matter (PM2.5)[9]	24 Hour	No Separate State Standard		35 µg/m3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m3	Gravimetric or Beta Attenuation	12.0 µg/m3	15 µg/m3	
Carbon Monoxide (CO)	8 hour	9.0 ppm (10mg/m3)	Non-Dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m3)	-	Non-Dispersive Infrared Photometry
	1 hour	20 ppm (23 mg/m3)		35 ppm (40 mg/m3)		
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m3)		-	-	-
Nitrogen Dioxide (NO_2)[10]	Annual Arithmetic Mean	0.030 ppm (57 µg/m3)	Gas Phase Chemiluminescence	0.053 ppm (100 µg/m3)[8]	Same as Primary Standard	Gas Phase Chemiluminescence
	1 Hour	0.18 ppm (339 µg/m3)		0.100 ppm[8] (188/ µg/m3)	-	
Sulfur Dioxide (SO_2)[11]	Annual Arithmetic Mean	-	Ultraviolet Fluorescence	0.030 ppm[10] (for Certain Areas)	-	Ultraviolet Flourescence; Spectrophotometry (Pararoosaniline Method)[9]
	24 Hour	0.04 ppm (105 µg/m3)		0.14 ppm[10] (for Certain Areas) (See Footnote 9)	-	
	3 Hour	-		-	0.5 ppm (1300 µg/m3)	
	1 Hour	0.25 ppm (655 µg/m3)		75 ppb (196 µg/m3)	-	
Lead[12,13]	30 Day Average	1.5 µg/m3	Atomic Absorption	-		-
	Calendar Quarter	-		1.5 µg/m3	Same as Primary Standard	High Volume Sampler and Atomic Absorption
	Rolling 3-Month Average	-		0.15 µg/m3		
Visibility Reducing Particles	8 Hour	See footnote 14				
Sulfates	24 Hour	25 µg/m3	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m3)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m3)	Gas Chromatography			

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 procedure 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 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 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.
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.

Source: (California Air Resources Board, 5/4/2016)

Safer Affordable Fuel-Efficient Vehicle Rule

In August 2019, the U.S. EPA and the National Highway Traffic Safety Administration (NHSTA) jointly published a notice of the proposed rulemaking for the Safer Affordable Fuel-Efficient Vehicles Rule (SAFE Rule). The SAFE Vehicles Rule proposes amended Corporate Average Fuel Economy (CAFE) and Light-Duty Vehicle Greenhouse Gas Emissions Standards. This Notice of Proposed Rulemaking (NPRM) was the first formal step in setting the 2021-2026 Model Year (MY) standards that must be achieved by each automaker for its car and light-duty truck fleet (US EPA, 2018). Part One of the SAFE Rule withdrew the State of California's waiver, afforded under the CAA to set GHG and zero-emissions vehicle (ZEV) standards separate from the federal government and became effective in November 2019. In March 2020, Part Two of the SAFE Rule was published which set amended fuel economy and CO_2 standards for Passenger Cars and Light Trucks for model years 2021 through 2026. (US EPA, 2020).

The SAFE Rule relaxed federal greenhouse gas emissions and CAFE standards to increase in stringency at only about 1.5 percent (%) per year from model year (MY) 2020 levels over MYs 2021–2026. The previously established emission standards and related "augural" fuel economy standards would have achieved about 4% per year improvements through MY 2025.

CARB has prepared off-model adjustment factors for the Emissions Factors model (EMFAC) to account for the Final SAFE Rule. These adjustment factors account for changes in criteria pollutant estimates from mobile sources for NO_2, respirable particulate matter (PM_{10}), fine particulate matter ($PM_{2.5}$), and carbon monoxide (CO) (CARB, 2019). Similar adjustment factors were developed by CARB for CO_2 and are applied in this analysis to account for the potential changes to estimate vehicle GHG emissions as a result of the SAFE Rule (CARB, 2020).

2.3.3 Regional Standards

The State of California has 35 specific air districts, which are each responsible for ensuring that the criteria pollutants are below the National Ambient Air Quality Standard (NAAQS) and California Ambient Air Quality Standard (CAAQS). California air basins that exceed either the NAAQS or the CAAQS for any criteria pollutants are designated as "non-attainment areas" for that pollutant. The state therefore created the California State Implementation Plan (SIP), which is designed to provide control measures needed for California Air basis to attain ambient air quality standards (CARB, 2020).

The San Diego County Air Pollution Control District (SDAPCD) is the government agency which regulates sources of air pollution within the County. Therefore, the SDAPCD developed a

Regional Air Quality Strategy (RAQS) which lays out the standards, actions, and regulations to bring the region into attainment for the NAAQS and CAAQS, which are scientifically substantiated, numerical concentrations of criteria air pollutants considered to be protective of human health (SDAPCD, 2016).

The 2016 update mostly summarizes how the 2009 update has lowered NO_X and VOCs emissions which reduces ozone and clarifies and enhances emission reductions by introducing for discussion three new VOC and four new NO_X reduction measures. NO_X and VOCs are precursors to the formation of ozone in the atmosphere. The criteria pollutant standards are generally attained when each monitor within the region has had no exceedances during the previous three calendar years. A complete listing of the current attainment status for criteria pollutants with respect to both federal and state nonattainment status by pollutants for County is shown in Table 2.2 (SDAPCD, 2019).

The RAQS is largely based on population predictions by the San Diego Association of Governments (SANDAG). SANDAG uses the General Plan Update land use maps as the basis for maximum possible growth in the unincorporated area (County of San Diego, 2010). Projects that produce less growth than predicted by SANDAG would generally conform to the RAQS and projects that would allow for more growth than projected by SANDAG may generate a significant air quality impact if it is found to generate greater air pollutant emissions than what was assumed in the General Plan. Also, the project would be considered a significant impact if the project produces cumulative impacts.

Table 2.2: San Diego County Air Basin Attainment Status by Pollutant

Criteria Pollutant	Federal Designation	State Designation
Ozone (8-Hour)	Nonattainment	Nonattainment
Ozone (1-Hour)	Attainment *	Nonattainment
Carbon Monoxide	Attainment	Attainment
PM10	Unclassifiable **	Nonattainment
PM2.5	Attainment	Nonattainment
Nitrogen Dioxide	Attainment	Attainment
Sulfur Dioxide	Attainment	Attainment
Lead	Attainment	Attainment
Sulfates	No Federal Standard	Attainment
Hydrogen Sulfide	No Federal Standard	Unclassified
Visibility	No Federal Standard	Unclassified

** The federal 1-hour standard of 12 pphm was in effect from 1979 through June 15, 2005. The revoked standard is referenced here because it was employed for such a long period and because this benchmark is addressed in State Implementation Plans.*
*** At the time of designation, if the available data does not support a designation of attainment or nonattainment, the area is designated as unclassifiable.*
(SDAPCD, 2019)

The U.S. EPA uses the term VOC and CARB's Emission Inventory Branch (EIB) uses the term Reactive Organic Gases (ROG) to essentially define the same thing. There are minor deviations between compounds that define each term however for purposes of this study we will assume they are essentially the same due to the fact South Coast Air Quality Management District (SCAQMD) interchanges these words and because Air Quality models directly calculates ROG in place of VOC.

2.4 California Environmental Quality Act (CEQA) Significance Thresholds

The California Environmental Quality Act has provided a checklist to identify the significance of air quality impacts. These guidelines are found in Appendix G of the CEQA guidelines and are as follows:

AIR QUALITY -- Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the Project:

A: Conflict with or obstruct implementation of the applicable air quality plan?
B: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?
C: Expose sensitive receptors to substantial pollutant concentrations?
D: Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

2.5 SDAPCD Rule 20.2 – Air Quality Impact Assessment Screening Thresholds

The SDAPCD has established recommended trigger levels in Rule 20.2 for new or modified stationary sources. Through the County's Guidelines for Determining Significance and Report Format and Content Requirements, the County has adopted these trigger levels as Screening Level Thresholds[1] (SLTs) for use in determining CEQA air quality impacts (County of San Diego, 2007). These SLTs can be used to demonstrate that a project's total emissions would not result in a significant impact as defined by CEQA. However, since SDAPCD does not have recommended trigger level for VOCs, the County has adopted the South Coast Air Quality Management District's (SCAQMD's) VOC threshold for the Coachella Valley.

Should emissions be found to exceed these County adopted SLTs, additional modeling is required to demonstrate that the project's total air quality impacts are below the state and

[1] County SLTs are tied to achieving or maintaining attainment designations with the NAAQS and CAAQS. The federal and State ambient air quality standards, in turn, are scientifically substantiated, numerical concentrations of criteria air pollutants considered to be protective of human health.

federal ambient air quality standards. These SLTs for construction and operational activities are shown in Table 2.3.

Table 2.3: Screening Level Thresholds for Criteria Pollutants

Pollutant	Total Emissions (Pounds per Day)
Construction Emissions	
Respirable Particulate Matter (PM_{10} and $PM_{2.5}$)	100 and 55
Nitrogen Oxide (NO_x)	250
Sulfur Oxide (SO_x)	250
Carbon Monoxide (CO)	550
Reactive Organic Gases (ROG)	75
Operational Emissions	
Respirable Particulate Matter (PM_{10} and $PM_{2.5}$)	100 and 55
Nitrogen Oxide (NO_x)	250
Sulfur Oxide (SO_x)	250
Carbon Monoxide (CO)	550
Lead and Lead Compounds	3.2
Reactive Organic Gases (ROG)	75

Non-Criteria pollutants such as Hazardous Air Pollutants (HAPs) or Toxic Air Contaminants (TACs) are also regulated by the SDAPCD. Rule 1200 (Toxic Air Contaminants - New Source Review) adopted on June 12, 1996, requires evaluation of potential health risks for any new, relocated, or modified emission unit which may increase emissions of one or more toxic air contaminants. The rule requires that Projects that propose to increase cancer risk to less than one per one million have a less than significant impact. Projects that propose an increased cancer risk to greater than one in one million require implementation of toxics best available control technology (T-BACT) or impose the most effective emission limitation, emission control device or control technique to reduce the cancer risk. Upon providing T-BACT equipment a less than significant impact is expected when the risk is between one and ten per one million exposed. At no time shall the Project increase the incremental cancer risk to over ten in one million or a health hazard index (chronic and acute) greater than one.

2.6 Local Air Quality

Ambient Air Quality data is used to track air quality patterns throughout the county and is used to determine attainment status when compared to the NAAQS and CAAQS. The SDAPCD operates 11 monitoring sites, which collect data on criteria air pollutants (SDAPCD, 2019) and is responsible for the ambient monitoring program within the county.

The Project is closest to the Escondido and Camp Pendleton monitoring stations which are located approximately 7.6 and 21 miles, respectively, from the Project site. Because each site monitors different sets of criteria air pollutants, both sites were used to report ambient air quality data and is the best representation of what could be expected at the project site. This data as reported is shown in Table 2.4.

Table 2.4: Four-Year Ambient Air Quality Summary near the Project Site

Pollutant	Closest Recorded Ambient Monitoring Site	Averaging Time	CAAQS	NAAQS	2015	2016	2017	2018	Days Exceeded over 4 years
O_3 (ppm)	Camp Pendleton or Escondido Monitoring Station (Escondido Location Identified with an *)	1 Hour	0.09 ppm	No Standard	0.09	0.08	0.09	0.08	0
		8 Hour	0.070 ppm	0.070 ppm	0.08	0.07	0.08	0.07	10
* PM_{10} ($\mu g/m^3$)		24 Hour	50 $\mu g/m^3$	150 $\mu g/m^3$	30	-	-	-	N/A
		Annual Arithmetic Mean	20 $\mu g/m^3$	No Standard	19.4	-	-	-	N/A
* $PM_{2.5}$ ($\mu g/m^3$)		24 Hour	No standard -	35 $\mu g/m^3$	29.4	-	-	-	N/A
		Annual Arithmetic Mean	12 $\mu g/m^3$	15 $\mu g/m^3$	8.6	-	-	-	N/A
NO_2 (ppm)		Annual Arithmetic Mean	0.030 ppm	0.053 ppm	0.006	0.006	0.006	0.005	N/A
		1 Hour	0.18 ppm	0.100 ppm	0.060	0.072	0.063	0.048	N/A
* CO (ppm)		1 Hour	20 ppm	35 ppm	3.1	-	-	-	N/A
		8 Hour	9 ppm	9 ppm	2.0	-	-	-	N/A

Notes:
1. - Yearly maximums marked with "-" indicated data was not available for either monitoring station.
2. Days exceeded marked with "N/A" indicate no data available.
3. * Data was selected from the Escondido Monitoring Station. All other data presented was collected at the Camp Pendleton Monitoring Station.
4. SO_2 is only monitored at the El Cajon Monitoring Station. Within the entire County of San Diego, SO_2 emissions within the County are essentially Zero for all metrics including the Average, Maximum 24 hour and 1- hour standards. The Highest 1-hr measurement identified is 0.004 ppm and the most restrictive standard (CAAQS for SO_2) is 0.25 ppm.

3.0 METHODOLOGY

3.1 Construction Emissions Calculations

Air Quality impacts related to construction and daily operations were calculated using the latest CalEEMod 2016.3.2 air quality model, which was developed by BREEZE Software for SCAQMD in 2017. The construction module in CalEEMod is used to calculate the emissions associated with the construction of the Project and uses methodologies presented in the U.S. EPA AP-42 document with emphasis on Chapter 11.9. The CalEEMod input/output model is shown in ***Attachment A*** to this report.

The AERMOD dispersion model will be used to determine the concentration for air pollutants at any location near the pollutant generator. Additionally, the model identifies the maximum exposure distance and concentrations. The notable toxic air contaminant from construction is diesel exhaust since exposure to diesel exhaust is known to cause cancer and acute and chronic health effects. Diesel exhaust emissions can be estimated using the annual PM_{10} exhaust emissions from onsite construction operations obtained from the annual CalEEMod model output by summing each onsite source for the construction duration. The AERMOD input/output files for the proposed Project are shown in ***Attachment B*** of this report.

Once the dispersed concentrations of diesel particulates are estimated in the surrounding air, they are used to evaluate estimated exposure to people. Exposure is evaluated by calculating the dose in milligrams per kilogram body weight per day (mg/kg/d). For residential exposure, the breathing rates are determined for specific age groups, so inhalation dose (Dose-air) is calculated for each of these age groups, 3rd trimester, 0<2, 2<9, 2<16, 16<30 and 16-70 years. The following algorithms calculate this dose for exposure through the inhalation pathways. The worst case cancer risk dose calculation is defined in Equation 1 below (OEHHA, 2015):

Equation 1 $$Dose_{air} = C_{air} * (BR/BW) * A * EF * (1x10^{-6})$$

$Dose_{air}$	=	Dose through inhalation (mg/kg/d)
C_{air}	=	Concentration in air (µg/m^3) – dispersion models predicts a 1-hr concentration and is corrected to an annual average concentration by multiplying the 1-hr average by 0.08 (US EPA, 1992)
BR/BW	=	Daily breathing rate normalized to body weight (L/kg BW-day). See Table I.2 for the daily breathing rate for each age range.
A	=	Inhalation absorption factor (assumed to be 1)
EF	=	Exposure frequency (unitless, days/365 days)
1x10-6	=	Milligrams to micrograms conversion (10^{-3} mg/ µg), cubic meters to liters conversion (10^{-3} m^3/l)

Cancer risk is calculated by multiplying the daily inhalation or oral dose, by a cancer potency factor, the age sensitivity factor, the frequency of time spent at home and the exposure duration divided by averaging time, to yield the excess cancer risk. As described below, the excess cancer risk is calculated separately for each age grouping and then summed to yield cancer risk for any given location. Specific factors as modeled are shown within ***Attachment C*** to this report. The worst-case cancer risk calculation is defined in Equation 2 below (OEHHA, 2015) :

Equation 2

$$RISK_{inh\text{-}res} = DOSE_{air} \times CPF \times ASF \times ED/AT \times FAH$$

$RISK_{inh\text{-}res}$	=	Residential inhalation cancer risk
$DOSE_{air}$	=	Daily inhalation dose (mg/kg-day)
CPF	=	Inhalation cancer potency factor ($mg/kg\text{-}day^{-1}$)
ASF	=	Age sensitivity factor for a specified age group (unitless)
ED	=	Exposure duration (in years) for a specified age group
AT	=	Averaging time for lifetime cancer risk (years)
FAH	=	Fraction of time spent at home (unitless)

The Office of Environmental Health Hazard Assessment (OEHHA) recommends that an exposure duration (residency time) of 30 years be used to estimate individual cancer risk for the Maximally Exposed Individual Resident (MEIR). OEHHA also recommends that the 30-year exposure duration be used as the basis for public notification and risk reduction audits and plans.

Exposure durations of 9-years and 70-years are also recommended to be evaluated for the MEIR to show the range of cancer risk based on residency periods. If a facility is notifying the public regarding cancer risk, the 9-and 70-year cancer risk estimates are useful for people who have resided in their current residence for periods shorter and longer than 30 years.

Non-Cancer risks or risks defined as chronic or acute. With respect to DPM only chronic risks are calculated and are determined by the hazard index. To calculate hazard index, DPM concentration is divided by its chronic Reference Exposure Levels (REL). Where the total equals or exceeds one, a health hazard is presumed to exist. RELs are published by the Office of Environmental Health Hazard Assessment (OEHHA, 2015). Diesel Exhaust has a REL of 5 µg/m3 and targets the respiratory system.

A graphical representation of the modeling locations is shown on a site aerial below in Figure 3-A. The red points (1-3) represent the sensitive receptor locations where air quality emissions are calculated by AERMOD. The green polygon represents the grading area. For purposes of analysis an unmitigated and mitigated model was created.

Figure 3-A: Construction Health Risk Model Setup

Source: (Google, 2020)

3.2 Construction Assumptions

The Project construction dates were estimated based on a construction kickoff starting early 2021 with construction ending early 2022. The Earthwork associated with Project construction would include site preparation and grading. Following the completion of earthwork activities, paving and building construction activities occur.

CalEEMod 2016.3.2 was utilized for all calculations. Model defaults were manually updated to reflect SDAPCD Rule 67 paint VOC limits which are SDAPCD requirements. Table 3.1 shows the expected timeframes for the construction activities for all on-site infrastructure, facilities, improvements, and commercial structure, as well as the expected number of pieces of equipment. Based on information provided by the Project applicant, earthwork activities will be balanced. It should be noted that the construction schedule and equipment list are based on a facility size of 48,087 SF. The proposed facility size will decrease from the 48,087 SF and is currently identified as 36,724 SF. Based on this, the proposed schedule and equipment and any construction findings based on the 48,087 SF within this analysis would be conservative.

Table 3.1: Expected Construction Equipment

Equipment Identification	Proposed Start	Proposed Complete	Quantity
Demolition	02/15/2021	03/12/2021	
Concrete/Industrial Saws			1
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			3
Site Preparation	03/13/2021	03/16/2021	
Graders			1
Scrapers			1
Tractors/Loaders/Backhoes			1
Grading	03/17/2021	03/22/2021	
Graders			1
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			2
Paving	03/23/2021	04/05/2021	
Cement and Mortar Mixers			1
Pavers			1
Paving Equipment			1
Rollers			2
Tractors/Loaders/Backhoes			1
Building Construction	04/06/2021	01/10/2022	
Cranes			1
Forklifts			2
Generator Sets			1
Tractors/Loaders/Backhoes			1
Welders			3
Architectural Coating	07/01/2021	01/10/2022	
Air Compressors			
This equipment list and schedule is based upon default equipment inventory within CalEEMod.			

3.3 Operational Emissions

Once construction is completed the proposed Project would generate emissions from daily operations which would include sources such as mobile, area, energy, waste and water uses, which are also calculated within CalEEMod. Waste and water use do not specifically generate air quality emissions on-site. Area Sources include consumer products, landscaping and architectural coatings as part of regular maintenance. It is assumed that an average of 10 percent of the structural surface area will be re-painted each year. Air quality emissions would occur from onsite consumption of natural gas only, as electricity is generated offsite.

Finally, the Project would also generate emissions through the use of vehicles for transportation. The Project was estimated to generate 96 average daily trips (ADT) as identified within the Project traffic study (Darnell and Associates, 2020). The findings of the traffic study indicated that the project trips were so low that an intersection analysis was not necessary and that traffic mitigation measures were not required. These daily trips were utilized within the CalEEMod analysis using a rural setting which assumes an average trip length of 16.8 miles for construction vehicles and operational commute trips. The operational model is also shown in ***Attachment A*** at the end of this report. It should be noted that this analysis is for a larger building as discussed in Section 3.2 above. The traffic inputs utilized are based on the same larger facility. Based on this, this operational analysis and findings reported would be conservative.

3.4 Micro Scale Operational Emissions

Air pollutant emissions related to Project traffic have the potential to create new or worsen existing localized air quality violations with respect to carbon monoxide (CO). These increased carbon monoxide "Hot Spots" are determined through the utilization of the Institute of Transportation Studies (ITS) Transportation Project-Level Carbon Monoxide Protocol (University of California, Davis, 1997). In the event the proposed Project traffic adds vehicular trips to either an intersection that operates at Level of Service (LOS) E or F or the additional Project trips re-classify the intersection from an acceptable LOS to LOS E or F, and when total intersection peak-hour trips exceed 3,000 vehicles, the Project must conduct a CO "Hot Spot" analysis (County of San Diego, 2007).

As mentioned above in Section 3.3, the Project traffic study reported that the proposed Project would not generate enough daily trips to require an intersection analysis. This too would suggest that the project would not add enough vehicles to generate CO hotspots. Therefore, CO Hot Spot impacts are not expected and are not further analyzed.

3.5 Odor Impacts (Onsite)

Potential onsite odor generators would include short-term construction odors from activities such as paving and painting, as well as exhaust from construction equipment. Odors created during short term construction activities such as the laying of asphalt are from the bitumen and solvents used within hot asphalt, and architectural coatings.

Long term odors from a project such as this (Self Storage) facility may potentially be from maintenance activities such as future reapplication of architectural coatings, landscaping equipment or potentially vehicles accessing the site.

4.0 FINDINGS

4.1 Construction Findings

Emissions from construction activities and equipment use, identified in Section 3.2, are presented in pounds per day and are shown in Table 4.1 below. Given these findings, the Project construction would not exceed SDAPCD air quality standards. A project with emissions rates below these thresholds is considered to have a less than significant impact on regional and local air quality and would have a low potential for resulting in impacts to human health due to the nexus between SLTs, ambient air quality standards, and public health and would not be required to incorporate mitigation measures to comply.

Table 4.1: Expected Construction Emissions Summary – Pounds per Day (lb/day)

Year	ROG	NO_x	CO	SO_2	PM_{10} (Dust)	PM_{10} (Exhaust)	PM_{10} (Total)	$PM_{2.5}$ (Dust)	$PM_{2.5}$ (Exhaust)	$PM_{2.5}$ (Total)
2021	5.94	20.25	18.45	0.04	6.68	1.04	7.60	3.40	0.97	4.24
2022	5.73	17.44	18.09	0.04	0.65	0.79	1.44	0.17	0.76	0.93
Screening Level Threshold (lb/day)	75	250	550	250	-	-	100	-	-	55
Significant Impact?	**No**	**No**	**No**	**No**	-	-	**No**	-	-	**No**

4.2 Health Risk

The nearest sensitive receptors to the Project site are between 200 and 700 feet from the project and are identified in Figure 3-A above. Based upon the annual air quality modeling outputs, worst-case PM_{10} generated from onsite construction exhaust would cumulatively produce 0.104 tons over the construction duration (329-calendar days) or an average of 0.003 grams/second. The average emission rate over the grading area is $4.08x10^{-7}$ g/m2/s, which was calculated as follows:

$$\frac{0.003\,\frac{grams}{sec\,o\,nd}}{2acres * 4{,}046\,\frac{meters^2}{acre}} = 4.08 * 10^{-7}\,\frac{\frac{grams}{meters^2}}{sec\,o\,nd}$$

Utilizing the AERMOD dispersion model, we find that the peak maximum annual concentration is 1.17 µg/m^3 during the worst-case construction period. Utilizing the risk equation identified

above in Section 3.1, the inhalation cancer risk for the worst-case residential receptor is greater than one per one million exposed which would be a potentially significant impact and would require the application of T-BACT diesel equipment.

It was found that these impacts can be reduced to less than significant through the utilization of Tier 4 equipment with Diesel Particulate Filters (DPF). This equipment would cumulatively produce a total of 0.00067 tons of PM_{10} over the two-year construction duration above which equates to 0.000021 grams/second. Based on this the mitigated average emission rate over the grading area is $2.64x10^{-9}$ $g/m^2/s$. Utilizing the AERMOD dispersion model, we find that the annual concentration is 0.0038 $\mu g/m^3$ during construction. Given this, the inhalation cancer risk for the closest residential receptor was found to be 0.84 per one million exposed which would be considered a less than significant impact under CEQA with T-BACT applied. Additionally, as noted earlier in this report, detailed calculations for both the unmitigated and mitigated scenarios are shown in ***Attachment B*** of this report.

Finally, there are known chronic health risks associated with diesel exhaust which are considered non-cancer risks. These risks are calculated based on methods identified in Section 3.1 of this report. From this we find that the annual concentration of 0.0038 µg/m3 divided by the REL of 5 $\mu g/m^3$ yields a Health Hazard Index of 0.00076, which is less than one. Therefore, no chronic health risks are expected and all health risks are considered less than significant.

It should be noted that the mitigation measure to utilize Tier 4 or better equipment with DPF would further reduce Air Quality emissions identified in Section 4.1 above. Since unmitigated emissions do not exceed Rule 20.2, by default mitigated emissions would also be considered less than significant. Mitigated construction emissions are shown in Table 4.2 below:

Table 4.2: Mitigated Construction Emissions (lb/day) - Tier 4 with DPF

Year	ROG	NO_x	CO	SO_2	PM_{10} (Dust)	PM_{10} (Exhaust)	PM_{10} (Total)	$PM_{2.5}$ (Dust)	$PM_{2.5}$ (Exhaust)	$PM_{2.5}$ (Total)
2020	4.04	5.52	18.83	0.04	6.68	0.01	6.69	3.40	0.01	3.41
2021	4.03	5.43	18.70	0.04	0.65	0.01	0.66	0.17	0.01	0.19
Screening Level Threshold (lb/day)	75	250	550	250	-	-	100	-	-	55
Significant Impact?	**No**	**No**	**No**	**No**	-	-	**No**	-	-	**No**

4.3 Operational Findings

Project buildout is expected in 2022 and the first full year of operations are expected in 2023. Project trip generation was provided in the traffic study by Darnell and Associates (2020) and included in CalEEMod 2016.3.2. Additionally, the model was run for the winter and summer scenarios to determine operational impacts for the buildout year of full operations. The expected daily pollutant generation was calculated in CalEEMod utilizing the Project ADT and the expected emissions inventory provided by EMFAC2014. The daily pollutants calculated for summer and winter are shown in Tables 4.3 and 4.4.

Table 4.3: Expected Project Summer Daily Pollutant Generation (lb/day)

	ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
Area	1.17	0.00	0.01	0.00	0.00	0.00
Energy	0.00	0.02	0.02	0.00	0.00	0.00
Mobile	0.17	0.64	2.27	0.01	0.79	0.22
Adjustment Factor (Unitless)	1.01	1.01	1.00	None Specified	1.01	1.01
Adjusted Mobile (lb/day)	0.17	0.64	2.28	0.01	0.80	0.22
Total (Unmitigated)	**1.34**	**0.66**	**2.31**	**0.01**	**0.80**	**0.22**
Screening Level Thresholds	75	250	550	250	100	55
Significant Impact?	**No**	**No**	**No**	**No**	**No**	**No**

Daily pollutant generation assumes trip distances within CalEEMod
The final numbers are all rounded within Excel and are reported as rounded numbers.
Mobile emissions only were adjusted by SAFE factors to account for SAFE Rule changes.

Table 4.4: Expected Project Winter Daily Pollutant Generation (lb/day)

	ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
Area	1.17	0.00	0.01	0.00	0.00	0.00
Energy	0.00	0.02	0.02	0.00	0.00	0.00
Mobile	0.16	0.67	2.18	0.01	0.79	0.22
Adjustment Factor	1.01	1.01	1.00	None Specified	1.01	1.01
Adjusted Mobile	0.16	0.67	2.19	0.01	0.80	0.22
Total (Unmitigated)	**1.33**	**0.69**	**2.22**	**0.01**	**0.80**	**0.22**
Screening Level Thresholds	75	250	550	250	100	55
Significant Impact?	**No**	**No**	**No**	**No**	**No**	**No**

Daily pollutant generation assumes trip distances within CalEEMod
The final numbers are all rounded within Excel and are reported as rounded numbers.
Mobile emissions only were adjusted by SAFE factors to account for SAFE Rule changes.

A project with emissions rates below these thresholds is considered to have a less than significant impact on regional and local air quality and would have a low potential for resulting in impacts to human health due to the nexus between SLTs, ambient air quality standards, and public health and would not be required to incorporate mitigation measures to comply. Given this, a less than significant impact is expected. It should be noted: The proposed facility size will decrease from the 48,087 SF as analyzed within this report and is currently identified as 36,724 SF. Based on this, the proposed operations findings which is based on the 48,087 SF within this analysis would be conservative.

4.4 Odor Impact Findings

Potential onsite odor generators would include short term construction odors from activities such as paving and possibly painting. Odors created during short term construction activities would most likely be from placing asphalt which has a slight odor from the bitumen and solvents used within hot asphalt. Asphalt operations are fairly quick and are not expected to cause significant long-term odor impacts. Due to the high dispersive nature of exhaust emissions, the concentration of emissions would be reduced with distance between the project site and the sensitive receptors adjacent to the project site and would be considered less than significant.

Long term odors from a project such as this (Self Storage) would not generate odors of any significance. Based on this, long term odor impacts would be less than significant.

4.5 Cumulative Impact Findings

The Project would not generate significant construction or operational impacts as demonstrated within this analysis. Furthermore, the Project would not cause any significant traffic impacts or add a significant number of vehicular trips to the offsite roadway network as was identified in the project traffic study (Darnell and Associates, 2020).

Cumulative impacts would exist when either there are direct air quality impacts or when multiple construction projects occur within close proximity of the project site simultaneously. To illustrate this, if a Project were to produce air quality emissions simultaneous to a nearby construction project the addition of both project emissions to the environment could exceed significance thresholds. If a nearby Project was to be under construction at the same time, that Project would need to produce an additive amount of emissions close to the Project site such that emissions would exceed thresholds.

An AERMOD analysis has been prepared with three sensitive receptors adjacent and near the Project site, including the nearby preschool just over 200 feet away. It was found that

potentially significant cancer health risks could be tied to construction and therefore would require mitigation to comply. Using Tier 4 construction equipment with DPF would reduce cancer risks to less than significant at all receptors surrounding the Project site.

Based on conversations with both the County and the applicant the nearest cumulative construction project would be the Weston Commercial project to the northwest to the east though is over 1,300 feet away. The proposed Project applicant would coordinate with County staff to ensure construction phases for which significant emissions are generated (i.e., grading) would not occur simultaneous to similar construction phases for the Weston project, to the extent feasible. Given this, the proposed Project is expected to generate less than significant cumulative construction emissions impacts.

Finally, the site is subject to the General Plan Regional Category Village, Land Use Designation Limited Impact Industrial. Zoning for the site is M52 (Limited Industrial). The M52 – Limited Industrial zoning allows for wide range of industrial and commercial uses frequently associated with industrial operations; such as wholesaling, auto and truck repair and administrative and professional offices. The proposed Project conforms to the existing zoning and would be consistent with the growth assumptions in the General Plan and would not conflict with the County's ability to comply with the RAQS/SIP. Furthermore, no adverse human health impacts would be caused due to the project's compliance with the RAQS/SIP.

4.6 Conclusion of Findings

Based upon the analysis of construction and operation activities for the proposed Project would generate less than significant direct operational and direct construction impacts related to fugitive dust.

It was found that significant cancer health risks could be tied to construction and therefore would require mitigation to comply. Using Tier 4 construction equipment with DPF attached would reduce cancer risks to less than significant at all receptors surrounding the Project site.

Finally, the site is subject to the General Plan Regional Category Village, Land Use Designation Limited Impact Industrial. Zoning for the site is M52 (Limited Industrial). The M52 – Limited Industrial zoning allows for wide range of industrial and commercial uses frequently associated with industrial operations; such as wholesaling, auto and truck repair and administrative and professional offices. The proposed Project conforms to the existing zoning and would be consistent with the growth assumptions in the General Plan and would not conflict with the County's ability to comply with the RAQS/SIP.

Finally, the project would generate short-term construction odors but these impacts would not be considered significant. The project would not generate long term odor impacts. Based on this, no significant odor impacts are expected.

Based on this analysis, the project would be required to implement one mitigation measure identified below:

> *Construction Mitigation Measure 1: Ensure that all heavy diesel construction equipment is classified as Tier 4 at a minimum and includes diesel particulate filters. This will also satisfy health risk impacts related to diesel particulates under T-BACT guidelines.*

5.0 REFERENCES

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6.0 CERTIFICATIONS

The contents of this report represent an accurate depiction of the air quality environment and impacts within and surrounding the proposed Project development. This report was prepared utilizing the latest emission rates and reduction methodologies. This report was prepared by Jeremy Louden; a County approved CEQA Consultant for Air Quality.

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Date March 5, 2021

ATTACHMENT A

CalEEMod Results

Green Storage Facility

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	48.10	1000sqft	1.10	48,100.00	0
Parking Lot	0.90	Acre	0.90	39,204.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 2 acre site

Construction Phase - CS

Trips and VMT -

Demolition -

Architectural Coating - Rule 67 Paint is standard in SD

Vehicle Trips - Per TS

Area Coating - Rule 67 Paint is Standard in San Diego

Construction Off-road Equipment Mitigation - Tier 4

Fleet Mix -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Parking	250	100
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	138.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	1.68	2.00
tblVehicleTrips	SU_TR	1.68	2.00
tblVehicleTrips	WD_TR	1.68	2.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.9438	20.2469	18.4458	0.0370	6.6801	1.0426	7.5967	3.4014	0.9731	4.2446	0.0000	3,499.2814	3,499.2814	0.7702	0.0000	3,512.0988
2022	5.7259	17.4431	18.0941	0.0368	0.6477	0.7899	1.4377	0.1737	0.7604	0.9342	0.0000	3,475.8275	3,475.8275	0.5009	0.0000	3,488.3497
Maximum	**5.9438**	**20.2469**	**18.4458**	**0.0370**	**6.6801**	**1.0426**	**7.5967**	**3.4014**	**0.9731**	**4.2446**	**0.0000**	**3,499.2814**	**3,499.2814**	**0.7702**	**0.0000**	**3,512.0988**

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	4.0392	5.5156	18.8332	0.0370	6.6801	0.0124	6.6860	3.4014	0.0119	3.4072	0.0000	3,499.2814	3,499.2814	0.7702	0.0000	3,512.0988
2022	4.0251	5.4298	18.6952	0.0368	0.6477	0.0119	0.6596	0.1737	0.0115	0.1852	0.0000	3,475.8275	3,475.8275	0.5009	0.0000	3,488.3497
Maximum	**4.0392**	**5.5156**	**18.8332**	**0.0370**	**6.6801**	**0.0124**	**6.6860**	**3.4014**	**0.0119**	**3.4072**	**0.0000**	**3,499.2814**	**3,499.2814**	**0.7702**	**0.0000**	**3,512.0988**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**30.90**	**70.96**	**-2.71**	**0.00**	**0.00**	**98.68**	**18.69**	**0.00**	**98.65**	**30.63**	**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	1.1688	5.0000e-005	5.0000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114
Energy	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003		25.8911	25.8911	5.0000e-004	4.7000e-004	26.0449
Mobile	0.1690	0.6440	2.2657	8.6100e-003	0.7880	6.2800e-003	0.7943	0.2106	5.8500e-003	0.2164		876.1675	876.1675	0.0412		877.1968
Total	**1.3402**	**0.6656**	**2.2888**	**8.7400e-003**	**0.7880**	**7.9400e-003**	**0.7960**	**0.2106**	**7.5100e-003**	**0.2181**		**902.0693**	**902.0693**	**0.0417**	**4.7000e-004**	**903.2531**

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	1.1688	5.0000e-005	5.0000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114
Energy	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003		25.8911	25.8911	5.0000e-004	4.7000e-004	26.0449
Mobile	0.1690	0.6440	2.2657	8.6100e-003	0.7880	6.2800e-003	0.7943	0.2106	5.8500e-003	0.2164		876.1675	876.1675	0.0412		877.1968
Total	**1.3402**	**0.6656**	**2.2888**	**8.7400e-003**	**0.7880**	**7.9400e-003**	**0.7960**	**0.2106**	**7.5100e-003**	**0.2181**		**902.0693**	**902.0693**	**0.0417**	**4.7000e-004**	**903.2531**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/15/2021	3/12/2021	5	20	
2	Site Preparation	Site Preparation	3/13/2021	3/16/2021	5	2	
3	Grading	Grading	3/17/2021	3/22/2021	5	4	
4	Paving	Paving	3/23/2021	4/5/2021	5	10	
5	Building Construction	Building Construction	4/6/2021	1/10/2022	5	200	
6	Architectural Coating	Architectural Coating	7/1/2021	1/10/2022	5	138	

Acres of Grading (Site Preparation Phase): 3

Acres of Grading (Grading Phase): 2

Acres of Paving: 0.9

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 72,150; Non-Residential Outdoor: 24,050; Striped Parking Area: 2,352 (Architectural Coating – sqft)

OffRoad Equipment

Green Storage Facility - San Diego Air Basin, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
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
Demolition	5	13.00	0.00	16.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	37.00	14.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

3.2 Demolition - 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					0.1744	0.0000	0.1744	0.0264	0.0000	0.0264			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.7171	2,322.7171	0.5940		2,337.5658
Total	**1.9930**	**19.6966**	**14.4925**	**0.0241**	**0.1744**	**1.0409**	**1.2153**	**0.0264**	**0.9715**	**0.9979**		**2,322.7171**	**2,322.7171**	**0.5940**		**2,337.5658**

3.2 Demolition - 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	5.9400e-003	0.2051	0.0502	6.2000e-004	0.0140	6.3000e-004	0.0146	3.8300e-003	6.0000e-004	4.4300e-003		67.6544	67.6544	5.9800e-003		67.8038
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0624	0.0435	0.5080	1.6400e-003	0.1661	1.1000e-003	0.1672	0.0440	1.0200e-003	0.0451		163.0832	163.0832	4.5400e-003		163.1967
Total	**0.0684**	**0.2485**	**0.5582**	**2.2600e-003**	**0.1800**	**1.7300e-003**	**0.1818**	**0.0479**	**1.6200e-003**	**0.0495**		**230.7376**	**230.7376**	**0.0105**		**231.0005**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1744	0.0000	0.1744	0.0264	0.0000	0.0264			0.0000			0.0000
Off-Road	0.2811	1.2179	14.7184	0.0241		5.6200e-003	5.6200e-003		5.6200e-003	5.6200e-003	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
Total	**0.2811**	**1.2179**	**14.7184**	**0.0241**	**0.1744**	**5.6200e-003**	**0.1800**	**0.0264**	**5.6200e-003**	**0.0320**	**0.0000**	**2,322.7171**	**2,322.7171**	**0.5940**		**2,337.5658**

3.2 Demolition - 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	5.9400e-003	0.2051	0.0502	6.2000e-004	0.0140	6.3000e-004	0.0146	3.8300e-003	6.0000e-004	4.4300e-003		67.6544	67.6544	5.9800e-003		67.8038
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0624	0.0435	0.5080	1.6400e-003	0.1661	1.1000e-003	0.1672	0.0440	1.0200e-003	0.0451		163.0832	163.0832	4.5400e-003		163.1967
Total	**0.0684**	**0.2485**	**0.5582**	**2.2600e-003**	**0.1800**	**1.7300e-003**	**0.1818**	**0.0479**	**1.6200e-003**	**0.0495**		**230.7376**	**230.7376**	**0.0105**		**231.0005**

3.3 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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457		2,372.8832	2,372.8832	0.7674		2,392.0692
Total	**1.5463**	**18.2862**	**10.7496**	**0.0245**	**1.5908**	**0.7019**	**2.2926**	**0.1718**	**0.6457**	**0.8175**		**2,372.8832**	**2,372.8832**	**0.7674**		**2,392.0692**

3.3 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	0.0384	0.0267	0.3126	1.0100e-003	0.1022	6.8000e-004	0.1029	0.0271	6.3000e-004	0.0277		100.3589	100.3589	2.7900e-003		100.4287
Total	**0.0384**	**0.0267**	**0.3126**	**1.0100e-003**	**0.1022**	**6.8000e-004**	**0.1029**	**0.0271**	**6.3000e-004**	**0.0277**		**100.3589**	**100.3589**	**2.7900e-003**		**100.4287**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	0.3008	1.3034	11.8595	0.0245		6.0200e-003	6.0200e-003		6.0200e-003	6.0200e-003	0.0000	2,372.8832	2,372.8832	0.7674		2,392.0692
Total	**0.3008**	**1.3034**	**11.8595**	**0.0245**	**1.5908**	**6.0200e-003**	**1.5968**	**0.1718**	**6.0200e-003**	**0.1778**	**0.0000**	**2,372.8832**	**2,372.8832**	**0.7674**		**2,392.0692**

3.3 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	0.0384	0.0267	0.3126	1.0100e-003	0.1022	6.8000e-004	0.1029	0.0271	6.3000e-004	0.0277		100.3589	100.3589	2.7900e-003		100.4287
Total	**0.0384**	**0.0267**	**0.3126**	**1.0100e-003**	**0.1022**	**6.8000e-004**	**0.1029**	**0.0271**	**6.3000e-004**	**0.0277**		**100.3589**	**100.3589**	**2.7900e-003**		**100.4287**

3.4 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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
Total	**1.8271**	**20.2135**	**9.7604**	**0.0206**	**6.5523**	**0.9158**	**7.4681**	**3.3675**	**0.8425**	**4.2100**		**1,995.6114**	**1,995.6114**	**0.6454**		**2,011.7470**

3.4 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	0.0480	0.0334	0.3908	1.2600e-003	0.1277	8.5000e-004	0.1286	0.0339	7.8000e-004	0.0347		125.4486	125.4486	3.4900e-003		125.5359
Total	**0.0480**	**0.0334**	**0.3908**	**1.2600e-003**	**0.1277**	**8.5000e-004**	**0.1286**	**0.0339**	**7.8000e-004**	**0.0347**		**125.4486**	**125.4486**	**3.4900e-003**		**125.5359**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.2522	1.0927	10.9071	0.0206		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	1,995.6114	1,995.6114	0.6454		2,011.7470
Total	**0.2522**	**1.0927**	**10.9071**	**0.0206**	**6.5523**	**5.0400e-003**	**6.5574**	**3.3675**	**5.0400e-003**	**3.3725**	**0.0000**	**1,995.6114**	**1,995.6114**	**0.6454**		**2,011.7470**

3.4 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	0.0480	0.0334	0.3908	1.2600e-003	0.1277	8.5000e-004	0.1286	0.0339	7.8000e-004	0.0347		125.4486	125.4486	3.4900e-003		125.5359
Total	**0.0480**	**0.0334**	**0.3908**	**1.2600e-003**	**0.1277**	**8.5000e-004**	**0.1286**	**0.0339**	**7.8000e-004**	**0.0347**		**125.4486**	**125.4486**	**3.4900e-003**		**125.5359**

3.5 Paving - 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					
Off-Road	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371		1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.2358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2991**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**		**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

3.5 Paving - 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	0.0720	0.0501	0.5862	1.8900e-003	0.1916	1.2700e-003	0.1929	0.0508	1.1700e-003	0.0520		188.1729	188.1729	5.2400e-003		188.3039
Total	**0.0720**	**0.0501**	**0.5862**	**1.8900e-003**	**0.1916**	**1.2700e-003**	**0.1929**	**0.0508**	**1.1700e-003**	**0.0520**		**188.1729**	**188.1729**	**5.2400e-003**		**188.3039**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2104	0.9117	12.9737	0.0178		4.2100e-003	4.2100e-003		4.2100e-003	4.2100e-003	0.0000	1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.2358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4462**	**0.9117**	**12.9737**	**0.0178**		**4.2100e-003**	**4.2100e-003**		**4.2100e-003**	**4.2100e-003**	**0.0000**	**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

3.5 Paving - 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	0.0720	0.0501	0.5862	1.8900e-003	0.1916	1.2700e-003	0.1929	0.0508	1.1700e-003	0.0520		188.1729	188.1729	5.2400e-003		188.3039
Total	**0.0720**	**0.0501**	**0.5862**	**1.8900e-003**	**0.1916**	**1.2700e-003**	**0.1929**	**0.0508**	**1.1700e-003**	**0.0520**		**188.1729**	**188.1729**	**5.2400e-003**		**188.3039**

3.6 Building Construction - 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					
Off-Road	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
Total	**2.0451**	**16.0275**	**14.5629**	**0.0250**		**0.8173**	**0.8173**		**0.7831**	**0.7831**		**2,288.9355**	**2,288.9355**	**0.4503**		**2,300.1935**

3.6 Building Construction - 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	0.0400	1.3693	0.3459	3.5000e-003	0.0857	2.7400e-003	0.0885	0.0247	2.6200e-003	0.0273		376.9238	376.9238	0.0277		377.6163
Worker	0.1777	0.1237	1.4458	4.6600e-003	0.4726	3.1400e-003	0.4757	0.1253	2.8900e-003	0.1282		464.1599	464.1599	0.0129		464.4829
Total	**0.2177**	**1.4929**	**1.7917**	**8.1600e-003**	**0.5583**	**5.8800e-003**	**0.5642**	**0.1500**	**5.5100e-003**	**0.1555**		**841.0837**	**841.0837**	**0.0406**		**842.0992**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3296	3.8705	14.9355	0.0250		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
Total	**0.3296**	**3.8705**	**14.9355**	**0.0250**		**5.2800e-003**	**5.2800e-003**		**5.2800e-003**	**5.2800e-003**	**0.0000**	**2,288.9355**	**2,288.9355**	**0.4503**		**2,300.1935**

3.6 Building Construction - 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	0.0400	1.3693	0.3459	3.5000e-003	0.0857	2.7400e-003	0.0885	0.0247	2.6200e-003	0.0273		376.9238	376.9238	0.0277		377.6163
Worker	0.1777	0.1237	1.4458	4.6600e-003	0.4726	3.1400e-003	0.4757	0.1253	2.8900e-003	0.1282		464.1599	464.1599	0.0129		464.4829
Total	**0.2177**	**1.4929**	**1.7917**	**8.1600e-003**	**0.5583**	**5.8800e-003**	**0.5642**	**0.1500**	**5.5100e-003**	**0.1555**		**841.0837**	**841.0837**	**0.0406**		**842.0992**

3.6 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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
Total	**1.8555**	**14.6040**	**14.3533**	**0.0250**		**0.7022**	**0.7022**		**0.6731**	**0.6731**		**2,289.2813**	**2,289.2813**	**0.4417**		**2,300.3230**

3.6 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	0.0372	1.2964	0.3272	3.4600e-003	0.0857	2.3600e-003	0.0881	0.0247	2.2500e-003	0.0269		373.3914	373.3914	0.0268		374.0616
Worker	0.1683	0.1129	1.3455	4.4800e-003	0.4726	3.0700e-003	0.4757	0.1253	2.8300e-003	0.1282		447.1171	447.1171	0.0119		447.4132
Total	**0.2055**	**1.4092**	**1.6727**	**7.9400e-003**	**0.5583**	**5.4300e-003**	**0.5638**	**0.1500**	**5.0800e-003**	**0.1551**		**820.5085**	**820.5085**	**0.0387**		**821.4748**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3296	3.8705	14.9355	0.0250		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
Total	**0.3296**	**3.8705**	**14.9355**	**0.0250**		**5.2800e-003**	**5.2800e-003**		**5.2800e-003**	**5.2800e-003**	**0.0000**	**2,289.2813**	**2,289.2813**	**0.4417**		**2,300.3230**

3.6 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	0.0372	1.2964	0.3272	3.4600e-003	0.0857	2.3600e-003	0.0881	0.0247	2.2500e-003	0.0269		373.3914	373.3914	0.0268		374.0616
Worker	0.1683	0.1129	1.3455	4.4800e-003	0.4726	3.0700e-003	0.4757	0.1253	2.8300e-003	0.1282		447.1171	447.1171	0.0119		447.4132
Total	**0.2055**	**1.4092**	**1.6727**	**7.9400e-003**	**0.5583**	**5.4300e-003**	**0.5638**	**0.1500**	**5.0800e-003**	**0.1551**		**820.5085**	**820.5085**	**0.0387**		**821.4748**

3.7 Architectural Coating - 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					
Archit. Coating	3.4286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**3.6475**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 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	0.0336	0.0234	0.2735	8.8000e-004	0.0894	5.9000e-004	0.0900	0.0237	5.5000e-004	0.0243		87.8140	87.8140	2.4400e-003		87.8751
Total	**0.0336**	**0.0234**	**0.2735**	**8.8000e-004**	**0.0894**	**5.9000e-004**	**0.0900**	**0.0237**	**5.5000e-004**	**0.0243**		**87.8140**	**87.8140**	**2.4400e-003**		**87.8751**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**3.4583**	**0.1288**	**1.8324**	**2.9700e-003**		**5.9000e-004**	**5.9000e-004**		**5.9000e-004**	**5.9000e-004**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 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	0.0336	0.0234	0.2735	8.8000e-004	0.0894	5.9000e-004	0.0900	0.0237	5.5000e-004	0.0243		87.8140	87.8140	2.4400e-003		87.8751
Total	**0.0336**	**0.0234**	**0.2735**	**8.8000e-004**	**0.0894**	**5.9000e-004**	**0.0900**	**0.0237**	**5.5000e-004**	**0.0243**		**87.8140**	**87.8140**	**2.4400e-003**		**87.8751**

3.7 Architectural Coating - 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					
Archit. Coating	3.4286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**3.6331**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 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	0.0318	0.0214	0.2546	8.5000e-004	0.0894	5.8000e-004	0.0900	0.0237	5.3000e-004	0.0243		84.5897	84.5897	2.2400e-003		84.6458
Total	**0.0318**	**0.0214**	**0.2546**	**8.5000e-004**	**0.0894**	**5.8000e-004**	**0.0900**	**0.0237**	**5.3000e-004**	**0.0243**		**84.5897**	**84.5897**	**2.2400e-003**		**84.6458**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**3.4583**	**0.1288**	**1.8324**	**2.9700e-003**		**5.9000e-004**	**5.9000e-004**		**5.9000e-004**	**5.9000e-004**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 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	0.0318	0.0214	0.2546	8.5000e-004	0.0894	5.8000e-004	0.0900	0.0237	5.3000e-004	0.0243		84.5897	84.5897	2.2400e-003		84.6458
Total	**0.0318**	**0.0214**	**0.2546**	**8.5000e-004**	**0.0894**	**5.8000e-004**	**0.0900**	**0.0237**	**5.3000e-004**	**0.0243**		**84.5897**	**84.5897**	**2.2400e-003**		**84.6458**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1690	0.6440	2.2657	8.6100e-003	0.7880	6.2800e-003	0.7943	0.2106	5.8500e-003	0.2164		876.1675	876.1675	0.0412		877.1968
Unmitigated	0.1690	0.6440	2.2657	8.6100e-003	0.7880	6.2800e-003	0.7943	0.2106	5.8500e-003	0.2164		876.1675	876.1675	0.0412		877.1968

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	96.20	96.20	96.20	371,665	371,665
Total	96.20	96.20	96.20	371,665	371,665

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
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	14.70	6.60	6.60	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
Parking Lot	0.602700	0.040134	0.179939	0.104242	0.014985	0.005435	0.016642	0.024350	0.001934	0.001888	0.005938	0.000757	0.001056
Unrefrigerated Warehouse-No Rail	0.602700	0.040134	0.179939	0.104242	0.014985	0.005435	0.016642	0.024350	0.001934	0.001888	0.005938	0.000757	0.001056

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003		25.8911	25.8911	5.0000e-004	4.7000e-004	26.0449
NaturalGas Unmitigated	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003		25.8911	25.8911	5.0000e-004	4.7000e-004	26.0449

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					
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
Unrefrigerated Warehouse-No Rail	220.074	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003		25.8911	25.8911	5.0000e-004	4.7000e-004	26.0449
Total		**2.3700e-003**	**0.0216**	**0.0181**	**1.3000e-004**		**1.6400e-003**	**1.6400e-003**		**1.6400e-003**	**1.6400e-003**		**25.8911**	**25.8911**	**5.0000e-004**	**4.7000e-004**	**26.0449**

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					
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
Unrefrigerated Warehouse-No Rail	0.220074	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003		25.8911	25.8911	5.0000e-004	4.7000e-004	26.0449
Total		**2.3700e-003**	**0.0216**	**0.0181**	**1.3000e-004**		**1.6400e-003**	**1.6400e-003**		**1.6400e-003**	**1.6400e-003**		**25.8911**	**25.8911**	**5.0000e-004**	**4.7000e-004**	**26.0449**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1688	5.0000e-005	5.0000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114
Unmitigated	1.1688	5.0000e-005	5.0000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1252					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	5.0000e-005	5.0000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114
Total	**1.1688**	**5.0000e-005**	**5.0000e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0107**	**0.0107**	**3.0000e-005**		**0.0114**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1252					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	5.0000e-005	5.0000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114
Total	**1.1688**	**5.0000e-005**	**5.0000e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0107**	**0.0107**	**3.0000e-005**		**0.0114**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Green Storage Facility

San Diego Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	48.10	1000sqft	1.10	48,100.00	0
Parking Lot	0.90	Acre	0.90	39,204.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 2 acre site

Construction Phase - CS

Trips and VMT -

Demolition -

Architectural Coating - Rule 67 Paint is standard in SD

Vehicle Trips - Per TS

Area Coating - Rule 67 Paint is Standard in San Diego

Construction Off-road Equipment Mitigation - Tier 4

Fleet Mix -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Parking	250	100
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	138.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	1.68	2.00
tblVehicleTrips	SU_TR	1.68	2.00
tblVehicleTrips	WD_TR	1.68	2.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.9802	20.2510	18.3515	0.0366	6.6801	1.0426	7.5967	3.4014	0.9731	4.2446	0.0000	3,454.6984	3,454.6984	0.7701	0.0000	3,467.5366
2022	5.7609	17.4530	18.0042	0.0364	0.6477	0.7900	1.4378	0.1737	0.7605	0.9343	0.0000	3,432.5429	3,432.5429	0.5017	0.0000	3,445.0852
Maximum	**5.9802**	**20.2510**	**18.3515**	**0.0366**	**6.6801**	**1.0426**	**7.5967**	**3.4014**	**0.9731**	**4.2446**	**0.0000**	**3,454.6984**	**3,454.6984**	**0.7701**	**0.0000**	**3,467.5366**

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	4.0755	5.5277	18.7390	0.0366	6.6801	0.0125	6.6860	3.4014	0.0121	3.4072	0.0000	3,454.6984	3,454.6984	0.7701	0.0000	3,467.5366
2022	4.0602	5.4398	18.6053	0.0364	0.6477	0.0120	0.6597	0.1737	0.0116	0.1853	0.0000	3,432.5429	3,432.5429	0.5017	0.0000	3,445.0852
Maximum	**4.0755**	**5.5277**	**18.7390**	**0.0366**	**6.6801**	**0.0125**	**6.6860**	**3.4014**	**0.0121**	**3.4072**	**0.0000**	**3,454.6984**	**3,454.6984**	**0.7701**	**0.0000**	**3,467.5366**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**30.71**	**70.91**	**-2.72**	**0.00**	**0.00**	**98.67**	**18.69**	**0.00**	**98.64**	**30.63**	**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	1.1688	5.0000e-005	5.0000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114
Energy	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003		25.8911	25.8911	5.0000e-004	4.7000e-004	26.0449
Mobile	0.1638	0.6670	2.1807	8.1700e-003	0.7880	6.3000e-003	0.7943	0.2106	5.8700e-003	0.2165		831.9057	831.9057	0.0410		832.9299
Total	**1.3350**	**0.6886**	**2.2038**	**8.3000e-003**	**0.7880**	**7.9600e-003**	**0.7960**	**0.2106**	**7.5300e-003**	**0.2181**		**857.8075**	**857.8075**	**0.0415**	**4.7000e-004**	**858.9862**

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	1.1688	5.0000e-005	5.0000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114
Energy	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003		25.8911	25.8911	5.0000e-004	4.7000e-004	26.0449
Mobile	0.1638	0.6670	2.1807	8.1700e-003	0.7880	6.3000e-003	0.7943	0.2106	5.8700e-003	0.2165		831.9057	831.9057	0.0410		832.9299
Total	**1.3350**	**0.6886**	**2.2038**	**8.3000e-003**	**0.7880**	**7.9600e-003**	**0.7960**	**0.2106**	**7.5300e-003**	**0.2181**		**857.8075**	**857.8075**	**0.0415**	**4.7000e-004**	**858.9862**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/15/2021	3/12/2021	5	20	
2	Site Preparation	Site Preparation	3/13/2021	3/16/2021	5	2	
3	Grading	Grading	3/17/2021	3/22/2021	5	4	
4	Paving	Paving	3/23/2021	4/5/2021	5	10	
5	Building Construction	Building Construction	4/6/2021	1/10/2022	5	200	
6	Architectural Coating	Architectural Coating	7/1/2021	1/10/2022	5	138	

Acres of Grading (Site Preparation Phase): 3

Acres of Grading (Grading Phase): 2

Acres of Paving: 0.9

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 72,150; Non-Residential Outdoor: 24,050; Striped Parking Area: 2,352 (Architectural Coating – sqft)

OffRoad Equipment

Green Storage Facility - San Diego Air Basin, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
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
Demolition	5	13.00	0.00	16.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	37.00	14.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

3.2 Demolition - 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					0.1744	0.0000	0.1744	0.0264	0.0000	0.0264			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.7171	2,322.7171	0.5940		2,337.5658
Total	**1.9930**	**19.6966**	**14.4925**	**0.0241**	**0.1744**	**1.0409**	**1.2153**	**0.0264**	**0.9715**	**0.9979**		**2,322.7171**	**2,322.7171**	**0.5940**		**2,337.5658**

3.2 Demolition - 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	6.1000e-003	0.2068	0.0533	6.1000e-004	0.0140	6.4000e-004	0.0146	3.8300e-003	6.1000e-004	4.4400e-003		66.4855	66.4855	6.1700e-003		66.6399
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0725	0.0488	0.4679	1.5300e-003	0.1661	1.1000e-003	0.1672	0.0440	1.0200e-003	0.0451		153.0267	153.0267	4.2500e-003		153.1330
Total	**0.0786**	**0.2556**	**0.5212**	**2.1400e-003**	**0.1800**	**1.7400e-003**	**0.1818**	**0.0479**	**1.6300e-003**	**0.0495**		**219.5123**	**219.5123**	**0.0104**		**219.7728**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1744	0.0000	0.1744	0.0264	0.0000	0.0264			0.0000			0.0000
Off-Road	0.2811	1.2179	14.7184	0.0241		5.6200e-003	5.6200e-003		5.6200e-003	5.6200e-003	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
Total	**0.2811**	**1.2179**	**14.7184**	**0.0241**	**0.1744**	**5.6200e-003**	**0.1800**	**0.0264**	**5.6200e-003**	**0.0320**	**0.0000**	**2,322.7171**	**2,322.7171**	**0.5940**		**2,337.5658**

3.2 Demolition - 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	6.1000e-003	0.2068	0.0533	6.1000e-004	0.0140	6.4000e-004	0.0146	3.8300e-003	6.1000e-004	4.4400e-003		66.4855	66.4855	6.1700e-003		66.6399
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0725	0.0488	0.4679	1.5300e-003	0.1661	1.1000e-003	0.1672	0.0440	1.0200e-003	0.0451		153.0267	153.0267	4.2500e-003		153.1330
Total	**0.0786**	**0.2556**	**0.5212**	**2.1400e-003**	**0.1800**	**1.7400e-003**	**0.1818**	**0.0479**	**1.6300e-003**	**0.0495**		**219.5123**	**219.5123**	**0.0104**		**219.7728**

3.3 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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457		2,372.8832	2,372.8832	0.7674		2,392.0692
Total	**1.5463**	**18.2862**	**10.7496**	**0.0245**	**1.5908**	**0.7019**	**2.2926**	**0.1718**	**0.6457**	**0.8175**		**2,372.8832**	**2,372.8832**	**0.7674**		**2,392.0692**

3.3 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	0.0446	0.0300	0.2879	9.4000e-004	0.1022	6.8000e-004	0.1029	0.0271	6.3000e-004	0.0277		94.1703	94.1703	2.6100e-003		94.2357
Total	**0.0446**	**0.0300**	**0.2879**	**9.4000e-004**	**0.1022**	**6.8000e-004**	**0.1029**	**0.0271**	**6.3000e-004**	**0.0277**		**94.1703**	**94.1703**	**2.6100e-003**		**94.2357**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	0.3008	1.3034	11.8595	0.0245		6.0200e-003	6.0200e-003		6.0200e-003	6.0200e-003	0.0000	2,372.8832	2,372.8832	0.7674		2,392.0692
Total	**0.3008**	**1.3034**	**11.8595**	**0.0245**	**1.5908**	**6.0200e-003**	**1.5968**	**0.1718**	**6.0200e-003**	**0.1778**	**0.0000**	**2,372.8832**	**2,372.8832**	**0.7674**		**2,392.0692**

3.3 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	0.0446	0.0300	0.2879	9.4000e-004	0.1022	6.8000e-004	0.1029	0.0271	6.3000e-004	0.0277		94.1703	94.1703	2.6100e-003		94.2357
Total	**0.0446**	**0.0300**	**0.2879**	**9.4000e-004**	**0.1022**	**6.8000e-004**	**0.1029**	**0.0271**	**6.3000e-004**	**0.0277**		**94.1703**	**94.1703**	**2.6100e-003**		**94.2357**

3.4 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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
Total	**1.8271**	**20.2135**	**9.7604**	**0.0206**	**6.5523**	**0.9158**	**7.4681**	**3.3675**	**0.8425**	**4.2100**		**1,995.6114**	**1,995.6114**	**0.6454**		**2,011.7470**

3.4 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	0.0558	0.0375	0.3599	1.1800e-003	0.1277	8.5000e-004	0.1286	0.0339	7.8000e-004	0.0347		117.7129	117.7129	3.2700e-003		117.7946
Total	**0.0558**	**0.0375**	**0.3599**	**1.1800e-003**	**0.1277**	**8.5000e-004**	**0.1286**	**0.0339**	**7.8000e-004**	**0.0347**		**117.7129**	**117.7129**	**3.2700e-003**		**117.7946**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.2522	1.0927	10.9071	0.0206		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	1,995.6114	1,995.6114	0.6454		2,011.7470
Total	**0.2522**	**1.0927**	**10.9071**	**0.0206**	**6.5523**	**5.0400e-003**	**6.5574**	**3.3675**	**5.0400e-003**	**3.3725**	**0.0000**	**1,995.6114**	**1,995.6114**	**0.6454**		**2,011.7470**

3.4 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	0.0558	0.0375	0.3599	1.1800e-003	0.1277	8.5000e-004	0.1286	0.0339	7.8000e-004	0.0347		117.7129	117.7129	3.2700e-003		117.7946
Total	**0.0558**	**0.0375**	**0.3599**	**1.1800e-003**	**0.1277**	**8.5000e-004**	**0.1286**	**0.0339**	**7.8000e-004**	**0.0347**		**117.7129**	**117.7129**	**3.2700e-003**		**117.7946**

3.5 Paving - 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					
Off-Road	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371		1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.2358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2991**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**		**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

3.5 Paving - 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	0.0837	0.0563	0.5399	1.7700e-003	0.1916	1.2700e-003	0.1929	0.0508	1.1700e-003	0.0520		176.5693	176.5693	4.9000e-003		176.6919
Total	**0.0837**	**0.0563**	**0.5399**	**1.7700e-003**	**0.1916**	**1.2700e-003**	**0.1929**	**0.0508**	**1.1700e-003**	**0.0520**		**176.5693**	**176.5693**	**4.9000e-003**		**176.6919**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2104	0.9117	12.9737	0.0178		4.2100e-003	4.2100e-003		4.2100e-003	4.2100e-003	0.0000	1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.2358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4462**	**0.9117**	**12.9737**	**0.0178**		**4.2100e-003**	**4.2100e-003**		**4.2100e-003**	**4.2100e-003**	**0.0000**	**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

3.5 Paving - 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	0.0837	0.0563	0.5399	1.7700e-003	0.1916	1.2700e-003	0.1929	0.0508	1.1700e-003	0.0520		176.5693	176.5693	4.9000e-003		176.6919
Total	**0.0837**	**0.0563**	**0.5399**	**1.7700e-003**	**0.1916**	**1.2700e-003**	**0.1929**	**0.0508**	**1.1700e-003**	**0.0520**		**176.5693**	**176.5693**	**4.9000e-003**		**176.6919**

3.6 Building Construction - 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					
Off-Road	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
Total	**2.0451**	**16.0275**	**14.5629**	**0.0250**		**0.8173**	**0.8173**		**0.7831**	**0.7831**		**2,288.9355**	**2,288.9355**	**0.4503**		**2,300.1935**

3.6 Building Construction - 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	0.0423	1.3635	0.3873	3.4100e-003	0.0857	2.8600e-003	0.0886	0.0247	2.7400e-003	0.0274		366.3781	366.3781	0.0295		367.1159
Worker	0.2064	0.1387	1.3317	4.3700e-003	0.4726	3.1400e-003	0.4757	0.1253	2.8900e-003	0.1282		435.5377	435.5377	0.0121		435.8400
Total	**0.2487**	**1.5022**	**1.7191**	**7.7800e-003**	**0.5583**	**6.0000e-003**	**0.5643**	**0.1500**	**5.6300e-003**	**0.1556**		**801.9158**	**801.9158**	**0.0416**		**802.9559**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3296	3.8705	14.9355	0.0250		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
Total	**0.3296**	**3.8705**	**14.9355**	**0.0250**		**5.2800e-003**	**5.2800e-003**		**5.2800e-003**	**5.2800e-003**	**0.0000**	**2,288.9355**	**2,288.9355**	**0.4503**		**2,300.1935**

3.6 Building Construction - 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	0.0423	1.3635	0.3873	3.4100e-003	0.0857	2.8600e-003	0.0886	0.0247	2.7400e-003	0.0274		366.3781	366.3781	0.0295		367.1159
Worker	0.2064	0.1387	1.3317	4.3700e-003	0.4726	3.1400e-003	0.4757	0.1253	2.8900e-003	0.1282		435.5377	435.5377	0.0121		435.8400
Total	**0.2487**	**1.5022**	**1.7191**	**7.7800e-003**	**0.5583**	**6.0000e-003**	**0.5643**	**0.1500**	**5.6300e-003**	**0.1556**		**801.9158**	**801.9158**	**0.0416**		**802.9559**

3.6 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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
Total	**1.8555**	**14.6040**	**14.3533**	**0.0250**		**0.7022**	**0.7022**		**0.6731**	**0.6731**		**2,289.2813**	**2,289.2813**	**0.4417**		**2,300.3230**

3.6 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	0.0393	1.2900	0.3663	3.3700e-003	0.0857	2.4700e-003	0.0882	0.0247	2.3600e-003	0.0270		362.8758	362.8758	0.0285		363.5889
Worker	0.1960	0.1266	1.2370	4.2100e-003	0.4726	3.0700e-003	0.4757	0.1253	2.8300e-003	0.1282		419.5613	419.5613	0.0111		419.8383
Total	**0.2353**	**1.4166**	**1.6033**	**7.5800e-003**	**0.5583**	**5.5400e-003**	**0.5639**	**0.1500**	**5.1900e-003**	**0.1552**		**782.4371**	**782.4371**	**0.0396**		**783.4272**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3296	3.8705	14.9355	0.0250		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
Total	**0.3296**	**3.8705**	**14.9355**	**0.0250**		**5.2800e-003**	**5.2800e-003**		**5.2800e-003**	**5.2800e-003**	**0.0000**	**2,289.2813**	**2,289.2813**	**0.4417**		**2,300.3230**

3.6 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	0.0393	1.2900	0.3663	3.3700e-003	0.0857	2.4700e-003	0.0882	0.0247	2.3600e-003	0.0270		362.8758	362.8758	0.0285		363.5889
Worker	0.1960	0.1266	1.2370	4.2100e-003	0.4726	3.0700e-003	0.4757	0.1253	2.8300e-003	0.1282		419.5613	419.5613	0.0111		419.8383
Total	**0.2353**	**1.4166**	**1.6033**	**7.5800e-003**	**0.5583**	**5.5400e-003**	**0.5639**	**0.1500**	**5.1900e-003**	**0.1552**		**782.4371**	**782.4371**	**0.0396**		**783.4272**

3.7 Architectural Coating - 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					
Archit. Coating	3.4286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**3.6475**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 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	0.0390	0.0263	0.2520	8.3000e-004	0.0894	5.9000e-004	0.0900	0.0237	5.5000e-004	0.0243		82.3990	82.3990	2.2900e-003		82.4562
Total	**0.0390**	**0.0263**	**0.2520**	**8.3000e-004**	**0.0894**	**5.9000e-004**	**0.0900**	**0.0237**	**5.5000e-004**	**0.0243**		**82.3990**	**82.3990**	**2.2900e-003**		**82.4562**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**3.4583**	**0.1288**	**1.8324**	**2.9700e-003**		**5.9000e-004**	**5.9000e-004**		**5.9000e-004**	**5.9000e-004**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 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	0.0390	0.0263	0.2520	8.3000e-004	0.0894	5.9000e-004	0.0900	0.0237	5.5000e-004	0.0243		82.3990	82.3990	2.2900e-003		82.4562
Total	**0.0390**	**0.0263**	**0.2520**	**8.3000e-004**	**0.0894**	**5.9000e-004**	**0.0900**	**0.0237**	**5.5000e-004**	**0.0243**		**82.3990**	**82.3990**	**2.2900e-003**		**82.4562**

3.7 Architectural Coating - 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					
Archit. Coating	3.4286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**3.6331**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 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	0.0371	0.0240	0.2340	8.0000e-004	0.0894	5.8000e-004	0.0900	0.0237	5.3000e-004	0.0243		79.3765	79.3765	2.1000e-003		79.4289
Total	**0.0371**	**0.0240**	**0.2340**	**8.0000e-004**	**0.0894**	**5.8000e-004**	**0.0900**	**0.0237**	**5.3000e-004**	**0.0243**		**79.3765**	**79.3765**	**2.1000e-003**		**79.4289**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**3.4583**	**0.1288**	**1.8324**	**2.9700e-003**		**5.9000e-004**	**5.9000e-004**		**5.9000e-004**	**5.9000e-004**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 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	0.0371	0.0240	0.2340	8.0000e-004	0.0894	5.8000e-004	0.0900	0.0237	5.3000e-004	0.0243		79.3765	79.3765	2.1000e-003		79.4289
Total	**0.0371**	**0.0240**	**0.2340**	**8.0000e-004**	**0.0894**	**5.8000e-004**	**0.0900**	**0.0237**	**5.3000e-004**	**0.0243**		**79.3765**	**79.3765**	**2.1000e-003**		**79.4289**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1638	0.6670	2.1807	8.1700e-003	0.7880	6.3000e-003	0.7943	0.2106	5.8700e-003	0.2165		831.9057	831.9057	0.0410		832.9299
Unmitigated	0.1638	0.6670	2.1807	8.1700e-003	0.7880	6.3000e-003	0.7943	0.2106	5.8700e-003	0.2165		831.9057	831.9057	0.0410		832.9299

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	96.20	96.20	96.20	371,665	371,665
Total	96.20	96.20	96.20	371,665	371,665

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
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	14.70	6.60	6.60	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
Parking Lot	0.602700	0.040134	0.179939	0.104242	0.014985	0.005435	0.016642	0.024350	0.001934	0.001888	0.005938	0.000757	0.001056
Unrefrigerated Warehouse-No Rail	0.602700	0.040134	0.179939	0.104242	0.014985	0.005435	0.016642	0.024350	0.001934	0.001888	0.005938	0.000757	0.001056

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003		25.8911	25.8911	5.0000e-004	4.7000e-004	26.0449
NaturalGas Unmitigated	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003		25.8911	25.8911	5.0000e-004	4.7000e-004	26.0449

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					
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
Unrefrigerated Warehouse-No Rail	220.074	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003		25.8911	25.8911	5.0000e-004	4.7000e-004	26.0449
Total		**2.3700e-003**	**0.0216**	**0.0181**	**1.3000e-004**		**1.6400e-003**	**1.6400e-003**		**1.6400e-003**	**1.6400e-003**		**25.8911**	**25.8911**	**5.0000e-004**	**4.7000e-004**	**26.0449**

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					
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
Unrefrigerated Warehouse-No Rail	0.220074	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003		25.8911	25.8911	5.0000e-004	4.7000e-004	26.0449
Total		**2.3700e-003**	**0.0216**	**0.0181**	**1.3000e-004**		**1.6400e-003**	**1.6400e-003**		**1.6400e-003**	**1.6400e-003**		**25.8911**	**25.8911**	**5.0000e-004**	**4.7000e-004**	**26.0449**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1688	5.0000e-005	5.0000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114
Unmitigated	1.1688	5.0000e-005	5.0000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1252					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	5.0000e-005	5.0000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114
Total	**1.1688**	**5.0000e-005**	**5.0000e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0107**	**0.0107**	**3.0000e-005**		**0.0114**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1252					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	5.0000e-005	5.0000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114
Total	**1.1688**	**5.0000e-005**	**5.0000e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0107**	**0.0107**	**3.0000e-005**		**0.0114**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Green Storage Facility

San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	48.10	1000sqft	1.10	48,100.00	0
Parking Lot	0.90	Acre	0.90	39,204.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Green Storage Facility - San Diego Air Basin, Annual

Project Characteristics -

Land Use - 2 acre site

Construction Phase - CS

Trips and VMT -

Demolition -

Architectural Coating - Rule 67 Paint is standard in SD

Vehicle Trips - Per TS

Area Coating - Rule 67 Paint is Standard in San Diego

Construction Off-road Equipment Mitigation - Tier 4

Fleet Mix -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Parking	250	100
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	138.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	1.68	2.00
tblVehicleTrips	SU_TR	1.68	2.00
tblVehicleTrips	WD_TR	1.68	2.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.4957	2.1161	1.9580	3.8700e-003	0.0782	0.1020	0.1801	0.0238	0.0975	0.1213	0.0000	332.4640	332.4640	0.0543	0.0000	333.8226
2022	0.0172	0.0524	0.0540	1.1000e-004	1.9000e-003	2.3700e-003	4.2700e-003	5.1000e-004	2.2800e-003	2.7900e-003	0.0000	9.3721	9.3721	1.3600e-003	0.0000	9.4062
Maximum	**0.4957**	**2.1161**	**1.9580**	**3.8700e-003**	**0.0782**	**0.1020**	**0.1801**	**0.0238**	**0.0975**	**0.1213**	**0.0000**	**332.4640**	**332.4640**	**0.0543**	**0.0000**	**333.8226**

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	0.2911	0.5559	2.0068	3.8700e-003	0.0782	1.2900e-003	0.0794	0.0238	1.2400e-003	0.0250	0.0000	332.4637	332.4637	0.0543	0.0000	333.8223
2022	0.0121	0.0164	0.0558	1.1000e-004	1.9000e-003	4.0000e-005	1.9300e-003	5.1000e-004	3.0000e-005	5.4000e-004	0.0000	9.3721	9.3721	1.3600e-003	0.0000	9.4062
Maximum	**0.2911**	**0.5559**	**2.0068**	**3.8700e-003**	**0.0782**	**1.2900e-003**	**0.0794**	**0.0238**	**1.2400e-003**	**0.0250**	**0.0000**	**332.4637**	**332.4637**	**0.0543**	**0.0000**	**333.8223**

	ROG	NOx	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	**40.90**	**73.61**	**-2.51**	**0.00**	**0.00**	**98.73**	**55.88**	**0.00**	**98.73**	**79.41**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-15-2021	5-14-2021	0.6163	0.1123
2	5-15-2021	8-14-2021	0.7341	0.2528
3	8-15-2021	11-14-2021	0.8227	0.3147
4	11-15-2021	2-14-2022	0.5036	0.1951
		Highest	0.8227	0.3147

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2133	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.8000e-004	8.8000e-004	0.0000	0.0000	9.3000e-004
Energy	4.3000e-004	3.9400e-003	3.3100e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	66.1470	66.1470	2.5700e-003	5.9000e-004	66.3883
Mobile	0.0292	0.1215	0.3948	1.5000e-003	0.1401	1.1400e-003	0.1412	0.0375	1.0600e-003	0.0386	0.0000	138.5478	138.5478	6.7200e-003	0.0000	138.7158
Waste						0.0000	0.0000		0.0000	0.0000	9.1772	0.0000	9.1772	0.5424	0.0000	22.7362
Water						0.0000	0.0000		0.0000	0.0000	3.5289	47.3331	50.8619	0.3644	8.9500e-003	62.6386
Total	**0.2429**	**0.1254**	**0.3986**	**1.5200e-003**	**0.1401**	**1.4400e-003**	**0.1415**	**0.0375**	**1.3600e-003**	**0.0389**	**12.7061**	**252.0288**	**264.7348**	**0.9160**	**9.5400e-003**	**290.4797**

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	0.2133	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.8000e-004	8.8000e-004	0.0000	0.0000	9.3000e-004
Energy	4.3000e-004	3.9400e-003	3.3100e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	66.1470	66.1470	2.5700e-003	5.9000e-004	66.3883
Mobile	0.0292	0.1215	0.3948	1.5000e-003	0.1401	1.1400e-003	0.1412	0.0375	1.0600e-003	0.0386	0.0000	138.5478	138.5478	6.7200e-003	0.0000	138.7158
Waste						0.0000	0.0000		0.0000	0.0000	9.1772	0.0000	9.1772	0.5424	0.0000	22.7362
Water						0.0000	0.0000		0.0000	0.0000	3.5289	47.3331	50.8619	0.3644	8.9500e-003	62.6386
Total	**0.2429**	**0.1254**	**0.3986**	**1.5200e-003**	**0.1401**	**1.4400e-003**	**0.1415**	**0.0375**	**1.3600e-003**	**0.0389**	**12.7061**	**252.0288**	**264.7348**	**0.9160**	**9.5400e-003**	**290.4797**

	ROG	NOx	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

Green Storage Facility - San Diego Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/15/2021	3/12/2021	5	20	
2	Site Preparation	Site Preparation	3/13/2021	3/16/2021	5	2	
3	Grading	Grading	3/17/2021	3/22/2021	5	4	
4	Paving	Paving	3/23/2021	4/5/2021	5	10	
5	Building Construction	Building Construction	4/6/2021	1/10/2022	5	200	
6	Architectural Coating	Architectural Coating	7/1/2021	1/10/2022	5	138	

Acres of Grading (Site Preparation Phase): 3

Acres of Grading (Grading Phase): 2

Acres of Paving: 0.9

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 72,150; Non-Residential Outdoor: 24,050; Striped Parking Area: 2,352 (Architectural Coating – sqft)

OffRoad Equipment

Green Storage Facility - San Diego Air Basin, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
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
Demolition	5	13.00	0.00	16.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	37.00	14.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

3.2 Demolition - 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					1.7400e-003	0.0000	1.7400e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1970	0.1449	2.4000e-004		0.0104	0.0104		9.7100e-003	9.7100e-003	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060
Total	**0.0199**	**0.1970**	**0.1449**	**2.4000e-004**	**1.7400e-003**	**0.0104**	**0.0122**	**2.6000e-004**	**9.7100e-003**	**9.9700e-003**	**0.0000**	**21.0713**	**21.0713**	**5.3900e-003**	**0.0000**	**21.2060**

3.2 Demolition - 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	6.0000e-005	2.0900e-003	5.2000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.6093	0.6093	5.0000e-005	0.0000	0.6107
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	4.8000e-004	4.7100e-003	2.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.4022	1.4022	4.0000e-005	0.0000	1.4032
Total	**7.0000e-004**	**2.5700e-003**	**5.2300e-003**	**3.0000e-005**	**1.7600e-003**	**2.0000e-005**	**1.7700e-003**	**4.7000e-004**	**2.0000e-005**	**4.8000e-004**	**0.0000**	**2.0115**	**2.0115**	**9.0000e-005**	**0.0000**	**2.0139**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7400e-003	0.0000	1.7400e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8100e-003	0.0122	0.1472	2.4000e-004		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060
Total	**2.8100e-003**	**0.0122**	**0.1472**	**2.4000e-004**	**1.7400e-003**	**6.0000e-005**	**1.8000e-003**	**2.6000e-004**	**6.0000e-005**	**3.2000e-004**	**0.0000**	**21.0713**	**21.0713**	**5.3900e-003**	**0.0000**	**21.2060**

3.2 Demolition - 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	6.0000e-005	2.0900e-003	5.2000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.6093	0.6093	5.0000e-005	0.0000	0.6107
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	4.8000e-004	4.7100e-003	2.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.4022	1.4022	4.0000e-005	0.0000	1.4032
Total	**7.0000e-004**	**2.5700e-003**	**5.2300e-003**	**3.0000e-005**	**1.7600e-003**	**2.0000e-005**	**1.7700e-003**	**4.7000e-004**	**2.0000e-005**	**4.8000e-004**	**0.0000**	**2.0115**	**2.0115**	**9.0000e-005**	**0.0000**	**2.0139**

3.3 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					1.5900e-003	0.0000	1.5900e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5500e-003	0.0183	0.0108	2.0000e-005		7.0000e-004	7.0000e-004		6.5000e-004	6.5000e-004	0.0000	2.1526	2.1526	7.0000e-004	0.0000	2.1701
Total	**1.5500e-003**	**0.0183**	**0.0108**	**2.0000e-005**	**1.5900e-003**	**7.0000e-004**	**2.2900e-003**	**1.7000e-004**	**6.5000e-004**	**8.2000e-004**	**0.0000**	**2.1526**	**2.1526**	**7.0000e-004**	**0.0000**	**2.1701**

3.3 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	4.0000e-005	3.0000e-005	2.9000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0863	0.0863	0.0000	0.0000	0.0864
Total	**4.0000e-005**	**3.0000e-005**	**2.9000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0863**	**0.0863**	**0.0000**	**0.0000**	**0.0864**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5900e-003	0.0000	1.5900e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-004	1.3000e-003	0.0119	2.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.1526	2.1526	7.0000e-004	0.0000	2.1701
Total	**3.0000e-004**	**1.3000e-003**	**0.0119**	**2.0000e-005**	**1.5900e-003**	**1.0000e-005**	**1.6000e-003**	**1.7000e-004**	**1.0000e-005**	**1.8000e-004**	**0.0000**	**2.1526**	**2.1526**	**7.0000e-004**	**0.0000**	**2.1701**

3.3 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	4.0000e-005	3.0000e-005	2.9000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0863	0.0863	0.0000	0.0000	0.0864
Total	**4.0000e-005**	**3.0000e-005**	**2.9000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0863**	**0.0863**	**0.0000**	**0.0000**	**0.0864**

3.4 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					0.0131	0.0000	0.0131	6.7300e-003	0.0000	6.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6500e-003	0.0404	0.0195	4.0000e-005		1.8300e-003	1.8300e-003		1.6800e-003	1.6800e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501
Total	**3.6500e-003**	**0.0404**	**0.0195**	**4.0000e-005**	**0.0131**	**1.8300e-003**	**0.0149**	**6.7300e-003**	**1.6800e-003**	**8.4100e-003**	**0.0000**	**3.6208**	**3.6208**	**1.1700e-003**	**0.0000**	**3.6501**

3.4 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	1.0000e-004	7.0000e-005	7.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2157	0.2157	1.0000e-005	0.0000	0.2159
Total	**1.0000e-004**	**7.0000e-005**	**7.3000e-004**	**0.0000**	**2.5000e-004**	**0.0000**	**2.5000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2157**	**0.2157**	**1.0000e-005**	**0.0000**	**0.2159**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0131	0.0000	0.0131	6.7300e-003	0.0000	6.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0000e-004	2.1900e-003	0.0218	4.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501
Total	**5.0000e-004**	**2.1900e-003**	**0.0218**	**4.0000e-005**	**0.0131**	**1.0000e-005**	**0.0131**	**6.7300e-003**	**1.0000e-005**	**6.7400e-003**	**0.0000**	**3.6208**	**3.6208**	**1.1700e-003**	**0.0000**	**3.6501**

3.4 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	1.0000e-004	7.0000e-005	7.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2157	0.2157	1.0000e-005	0.0000	0.2159
Total	**1.0000e-004**	**7.0000e-005**	**7.3000e-004**	**0.0000**	**2.5000e-004**	**0.0000**	**2.5000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2157**	**0.2157**	**1.0000e-005**	**0.0000**	**0.2159**

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.3200e-003	0.0532	0.0589	9.0000e-005		2.9100e-003	2.9100e-003		2.6900e-003	2.6900e-003	0.0000	7.7524	7.7524	2.4600e-003	0.0000	7.8138
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.5000e-003**	**0.0532**	**0.0589**	**9.0000e-005**		**2.9100e-003**	**2.9100e-003**		**2.6900e-003**	**2.6900e-003**	**0.0000**	**7.7524**	**7.7524**	**2.4600e-003**	**0.0000**	**7.8138**

3.5 Paving - 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	3.7000e-004	2.8000e-004	2.7200e-003	1.0000e-005	9.4000e-004	1.0000e-005	9.4000e-004	2.5000e-004	1.0000e-005	2.5000e-004	0.0000	0.8090	0.8090	2.0000e-005	0.0000	0.8095
Total	**3.7000e-004**	**2.8000e-004**	**2.7200e-003**	**1.0000e-005**	**9.4000e-004**	**1.0000e-005**	**9.4000e-004**	**2.5000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**0.8090**	**0.8090**	**2.0000e-005**	**0.0000**	**0.8095**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0500e-003	4.5600e-003	0.0649	9.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	7.7524	7.7524	2.4600e-003	0.0000	7.8138
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.2300e-003**	**4.5600e-003**	**0.0649**	**9.0000e-005**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**7.7524**	**7.7524**	**2.4600e-003**	**0.0000**	**7.8138**

3.5 Paving - 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	3.7000e-004	2.8000e-004	2.7200e-003	1.0000e-005	9.4000e-004	1.0000e-005	9.4000e-004	2.5000e-004	1.0000e-005	2.5000e-004	0.0000	0.8090	0.8090	2.0000e-005	0.0000	0.8095
Total	**3.7000e-004**	**2.8000e-004**	**2.7200e-003**	**1.0000e-005**	**9.4000e-004**	**1.0000e-005**	**9.4000e-004**	**2.5000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**0.8090**	**0.8090**	**2.0000e-005**	**0.0000**	**0.8095**

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1984	1.5547	1.4126	2.4300e-003		0.0793	0.0793		0.0760	0.0760	0.0000	201.4193	201.4193	0.0396	0.0000	202.4100
Total	**0.1984**	**1.5547**	**1.4126**	**2.4300e-003**		**0.0793**	**0.0793**		**0.0760**	**0.0760**	**0.0000**	**201.4193**	**201.4193**	**0.0396**	**0.0000**	**202.4100**

3.6 Building Construction - 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	3.9800e-003	0.1339	0.0355	3.4000e-004	8.1500e-003	2.7000e-004	8.4200e-003	2.3500e-003	2.6000e-004	2.6100e-003	0.0000	32.7784	32.7784	2.5100e-003	0.0000	32.8411
Worker	0.0176	0.0132	0.1301	4.3000e-004	0.0448	3.0000e-004	0.0451	0.0119	2.8000e-004	0.0122	0.0000	38.7120	38.7120	1.0700e-003	0.0000	38.7389
Total	**0.0216**	**0.1471**	**0.1657**	**7.7000e-004**	**0.0529**	**5.7000e-004**	**0.0535**	**0.0142**	**5.4000e-004**	**0.0148**	**0.0000**	**71.4904**	**71.4904**	**3.5800e-003**	**0.0000**	**71.5799**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0320	0.3754	1.4487	2.4300e-003		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	201.4190	201.4190	0.0396	0.0000	202.4097
Total	**0.0320**	**0.3754**	**1.4487**	**2.4300e-003**		**5.1000e-004**	**5.1000e-004**		**5.1000e-004**	**5.1000e-004**	**0.0000**	**201.4190**	**201.4190**	**0.0396**	**0.0000**	**202.4097**

3.6 Building Construction - 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	3.9800e-003	0.1339	0.0355	3.4000e-004	8.1500e-003	2.7000e-004	8.4200e-003	2.3500e-003	2.6000e-004	2.6100e-003	0.0000	32.7784	32.7784	2.5100e-003	0.0000	32.8411
Worker	0.0176	0.0132	0.1301	4.3000e-004	0.0448	3.0000e-004	0.0451	0.0119	2.8000e-004	0.0122	0.0000	38.7120	38.7120	1.0700e-003	0.0000	38.7389
Total	**0.0216**	**0.1471**	**0.1657**	**7.7000e-004**	**0.0529**	**5.7000e-004**	**0.0535**	**0.0142**	**5.4000e-004**	**0.0148**	**0.0000**	**71.4904**	**71.4904**	**3.5800e-003**	**0.0000**	**71.5799**

3.6 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	5.5700e-003	0.0438	0.0431	8.0000e-005		2.1100e-003	2.1100e-003		2.0200e-003	2.0200e-003	0.0000	6.2304	6.2304	1.2000e-003	0.0000	6.2605
Total	**5.5700e-003**	**0.0438**	**0.0431**	**8.0000e-005**		**2.1100e-003**	**2.1100e-003**		**2.0200e-003**	**2.0200e-003**	**0.0000**	**6.2304**	**6.2304**	**1.2000e-003**	**0.0000**	**6.2605**

3.6 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	1.1000e-004	3.9200e-003	1.0400e-003	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.0042	1.0042	8.0000e-005	0.0000	1.0061
Worker	5.2000e-004	3.7000e-004	3.7400e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1534	1.1534	3.0000e-005	0.0000	1.1541
Total	**6.3000e-004**	**4.2900e-003**	**4.7800e-003**	**2.0000e-005**	**1.6300e-003**	**2.0000e-005**	**1.6500e-003**	**4.4000e-004**	**2.0000e-005**	**4.6000e-004**	**0.0000**	**2.1575**	**2.1575**	**1.1000e-004**	**0.0000**	**2.1602**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.9000e-004	0.0116	0.0448	8.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	6.2304	6.2304	1.2000e-003	0.0000	6.2605
Total	**9.9000e-004**	**0.0116**	**0.0448**	**8.0000e-005**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**6.2304**	**6.2304**	**1.2000e-003**	**0.0000**	**6.2605**

3.6 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	1.1000e-004	3.9200e-003	1.0400e-003	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.0042	1.0042	8.0000e-005	0.0000	1.0061
Worker	5.2000e-004	3.7000e-004	3.7400e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1534	1.1534	3.0000e-005	0.0000	1.1541
Total	**6.3000e-004**	**4.2900e-003**	**4.7800e-003**	**2.0000e-005**	**1.6300e-003**	**2.0000e-005**	**1.6500e-003**	**4.4000e-004**	**2.0000e-005**	**4.6000e-004**	**0.0000**	**2.1575**	**2.1575**	**1.1000e-004**	**0.0000**	**2.1602**

3.7 Architectural Coating - 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					
Archit. Coating	0.2263					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0145	0.1008	0.1200	2.0000e-004		6.2100e-003	6.2100e-003		6.2100e-003	6.2100e-003	0.0000	16.8515	16.8515	1.1600e-003	0.0000	16.8804
Total	**0.2407**	**0.1008**	**0.1200**	**2.0000e-004**		**6.2100e-003**	**6.2100e-003**		**6.2100e-003**	**6.2100e-003**	**0.0000**	**16.8515**	**16.8515**	**1.1600e-003**	**0.0000**	**16.8804**

3.7 Architectural Coating - 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	2.2600e-003	1.7000e-003	0.0168	6.0000e-005	5.7600e-003	4.0000e-005	5.8000e-003	1.5300e-003	4.0000e-005	1.5700e-003	0.0000	4.9833	4.9833	1.4000e-004	0.0000	4.9867
Total	**2.2600e-003**	**1.7000e-003**	**0.0168**	**6.0000e-005**	**5.7600e-003**	**4.0000e-005**	**5.8000e-003**	**1.5300e-003**	**4.0000e-005**	**1.5700e-003**	**0.0000**	**4.9833**	**4.9833**	**1.4000e-004**	**0.0000**	**4.9867**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2263					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9600e-003	8.5000e-003	0.1209	2.0000e-004		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	16.8515	16.8515	1.1600e-003	0.0000	16.8804
Total	**0.2282**	**8.5000e-003**	**0.1209**	**2.0000e-004**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**16.8515**	**16.8515**	**1.1600e-003**	**0.0000**	**16.8804**

3.7 Architectural Coating - 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	2.2600e-003	1.7000e-003	0.0168	6.0000e-005	5.7600e-003	4.0000e-005	5.8000e-003	1.5300e-003	4.0000e-005	1.5700e-003	0.0000	4.9833	4.9833	1.4000e-004	0.0000	4.9867
Total	**2.2600e-003**	**1.7000e-003**	**0.0168**	**6.0000e-005**	**5.7600e-003**	**4.0000e-005**	**5.8000e-003**	**1.5300e-003**	**4.0000e-005**	**1.5700e-003**	**0.0000**	**4.9833**	**4.9833**	**1.4000e-004**	**0.0000**	**4.9867**

3.7 Architectural Coating - 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					
Archit. Coating	0.0103					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2300e-003	5.4400e-003	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.7660	0.7660	5.0000e-005	0.0000	0.7672
Total	**0.0109**	**4.2300e-003**	**5.4400e-003**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.7660**	**0.7660**	**5.0000e-005**	**0.0000**	**0.7672**

3.7 Architectural Coating - 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	1.0000e-004	7.0000e-005	7.1000e-004	0.0000	2.6000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2182	0.2182	1.0000e-005	0.0000	0.2184
Total	**1.0000e-004**	**7.0000e-005**	**7.1000e-004**	**0.0000**	**2.6000e-004**	**0.0000**	**2.6000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2182**	**0.2182**	**1.0000e-005**	**0.0000**	**0.2184**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0103					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-005	3.9000e-004	5.5000e-003	1.0000e-005		0.0000	0.0000		0.0000	0.0000	0.0000	0.7660	0.7660	5.0000e-005	0.0000	0.7672
Total	**0.0104**	**3.9000e-004**	**5.5000e-003**	**1.0000e-005**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.7660**	**0.7660**	**5.0000e-005**	**0.0000**	**0.7672**

3.7 Architectural Coating - 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	1.0000e-004	7.0000e-005	7.1000e-004	0.0000	2.6000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2182	0.2182	1.0000e-005	0.0000	0.2184
Total	**1.0000e-004**	**7.0000e-005**	**7.1000e-004**	**0.0000**	**2.6000e-004**	**0.0000**	**2.6000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2182**	**0.2182**	**1.0000e-005**	**0.0000**	**0.2184**

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	0.0292	0.1215	0.3948	1.5000e-003	0.1401	1.1400e-003	0.1412	0.0375	1.0600e-003	0.0386	0.0000	138.5478	138.5478	6.7200e-003	0.0000	138.7158
Unmitigated	0.0292	0.1215	0.3948	1.5000e-003	0.1401	1.1400e-003	0.1412	0.0375	1.0600e-003	0.0386	0.0000	138.5478	138.5478	6.7200e-003	0.0000	138.7158

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	96.20	96.20	96.20	371,665	371,665
Total	96.20	96.20	96.20	371,665	371,665

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
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	14.70	6.60	6.60	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
Parking Lot	0.602700	0.040134	0.179939	0.104242	0.014985	0.005435	0.016642	0.024350	0.001934	0.001888	0.005938	0.000757	0.001056
Unrefrigerated Warehouse-No Rail	0.602700	0.040134	0.179939	0.104242	0.014985	0.005435	0.016642	0.024350	0.001934	0.001888	0.005938	0.000757	0.001056

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	61.8605	61.8605	2.4900e-003	5.2000e-004	62.0762
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	61.8605	61.8605	2.4900e-003	5.2000e-004	62.0762
NaturalGas Mitigated	4.3000e-004	3.9400e-003	3.3100e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2866	4.2866	8.0000e-005	8.0000e-005	4.3120
NaturalGas Unmitigated	4.3000e-004	3.9400e-003	3.3100e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2866	4.2866	8.0000e-005	8.0000e-005	4.3120

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					
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
Unrefrigerated Warehouse-No Rail	80327	4.3000e-004	3.9400e-003	3.3100e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2866	4.2866	8.0000e-005	8.0000e-005	4.3120
Total		**4.3000e-004**	**3.9400e-003**	**3.3100e-003**	**2.0000e-005**		**3.0000e-004**	**3.0000e-004**		**3.0000e-004**	**3.0000e-004**	**0.0000**	**4.2866**	**4.2866**	**8.0000e-005**	**8.0000e-005**	**4.3120**

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					
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
Unrefrigerated Warehouse-No Rail	80327	4.3000e-004	3.9400e-003	3.3100e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2866	4.2866	8.0000e-005	8.0000e-005	4.3120
Total		**4.3000e-004**	**3.9400e-003**	**3.3100e-003**	**2.0000e-005**		**3.0000e-004**	**3.0000e-004**		**3.0000e-004**	**3.0000e-004**	**0.0000**	**4.2866**	**4.2866**	**8.0000e-005**	**8.0000e-005**	**4.3120**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	13721.4	4.4843	1.8000e-004	4.0000e-005	4.4999
Unrefrigerated Warehouse-No Rail	175565	57.3762	2.3100e-003	4.8000e-004	57.5763
Total		**61.8605**	**2.4900e-003**	**5.2000e-004**	**62.0762**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	13721.4	4.4843	1.8000e-004	4.0000e-005	4.4999
Unrefrigerated Warehouse-No Rail	175565	57.3762	2.3100e-003	4.8000e-004	57.5763
Total		**61.8605**	**2.4900e-003**	**5.2000e-004**	**62.0762**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2133	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.8000e-004	8.8000e-004	0.0000	0.0000	9.3000e-004
Unmitigated	0.2133	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.8000e-004	8.8000e-004	0.0000	0.0000	9.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0228					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1904					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.8000e-004	8.8000e-004	0.0000	0.0000	9.3000e-004
Total	**0.2133**	**0.0000**	**4.5000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**8.8000e-004**	**8.8000e-004**	**0.0000**	**0.0000**	**9.3000e-004**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0228					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1904					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.8000e-004	8.8000e-004	0.0000	0.0000	9.3000e-004
Total	**0.2133**	**0.0000**	**4.5000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**8.8000e-004**	**8.8000e-004**	**0.0000**	**0.0000**	**9.3000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	50.8619	0.3644	8.9500e-003	62.6386
Unmitigated	50.8619	0.3644	8.9500e-003	62.6386

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	11.1231 / 0	50.8619	0.3644	8.9500e-003	62.6386
Total		**50.8619**	**0.3644**	**8.9500e-003**	**62.6386**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	11.1231 / 0	50.8619	0.3644	8.9500e-003	62.6386
Total		**50.8619**	**0.3644**	**8.9500e-003**	**62.6386**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.1772	0.5424	0.0000	22.7362
Unmitigated	9.1772	0.5424	0.0000	22.7362

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	45.21	9.1772	0.5424	0.0000	22.7362
Total		**9.1772**	**0.5424**	**0.0000**	**22.7362**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	45.21	9.1772	0.5424	0.0000	22.7362
Total		**9.1772**	**0.5424**	**0.0000**	**22.7362**

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

ATTACHMENT B

AERMOD – Unmitigated and Mitigated Scenarios

```
1                     AERMOD PRIME - (DATED  18081)

                     AERMODPrMSPx VERSION
              (C) COPYRIGHT 1998-2017, Trinity Consultants

 Run Began on  1/28/2020 at 15:49:43

** BREEZE AERMOD
** Trinity Consultants
** VERSION  8.1

CO STARTING
CO TITLEONE  Weston PM10 Exhaust unmit
CO MODELOPT  DFAULT  CONC  NODRYDPLT  NOWETDPLT
CO RUNORNOT  RUN
CO AVERTIME  ANNUAL
CO POLLUTID  PM10
CO FLAGPOLE  1.5
CO FINISHED

SO STARTING
SO ELEVUNIT  METERS
SO LOCATION  GKBY9003  AREAPOLY  498037  3676841.6  0
** SRCDESCR  Construction Area
SO SRCPARAM  GKBY9003  4.08E-07  3  8  1
SO AREAVERT  GKBY9003  498037 3676841.6  498030.7 3676749.9  497956.9 3676747.5  497947.6 3676778.9
SO AREAVERT  GKBY9003  497948.1 3676783.4  497961.4 3676815.7  497969.6 3676839.4  498037 3676841.6
SO SRCGROUP  ALL
SO FINISHED

RE STARTING
RE ELEVUNIT  METERS
RE DISCCART  497879  3676869.7  0  0  1.5
** SENSITIV
** RCPDESCR  Preschool
RE DISCCART  498115.1  3676672  0  0  1.5
** SENSITIV
** RCPDESCR  Residential 1
RE DISCCART  497783.7  3676960.6  0  0  1.5
** SENSITIV
** RCPDESCR  Residential 2
RE FINISHED

ME STARTING
ME SURFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\18-63L~1\Aermod\ESCOND~1\ESCONDIDO-2012-V15181.SFC"
** SURFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\18-63L~1\Aermod\ESCOND~1\ESCONDIDO-2012-V15181.SFC"
ME PROFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\18-63L~1\Aermod\ESCOND~1\ESCONDIDO-2012-V15181.PFL"
** PROFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\18-63L~1\Aermod\ESCOND~1\ESCONDIDO-2012-V15181.PFL"
ME SURFDATA  53120 2012
ME UAIRDATA  3190 2012
ME SITEDATA  00001002 2012
ME PROFBASE  205  METERS
ME STARTEND  2012  1  1  1  2012  12  31  24
ME FINISHED

OU STARTING
OU FILEFORM  FIX
OU FINISHED

** ************************************************************************
** It is recommended that the user not edit any data below this line
** ************************************************************************


** AMPTYPE  NED
** AMPDATUM  2
** AMPZONE  11
** AMPHEMISPHERE  N
```

```
** PROJECTIONWKT
PROJCS["UTM_6326_Zone11",GEOGCS["WGS_84",DATUM["World_Geodetic_System_1984",SPHEROID["WGS_1984",6378137,298.2572235
63],TOWGS84[0,0,0,0,0,0,0]],PRIMEM["Greenwich",0],UNIT["Degree",0.0174532925199433]],PROJECTION["Universal_Transver
se_Mercator"],PARAMETER["Zone",11],UNIT["Meter",1,AUTHORITY["EPSG","9001"]]]
** PROJECTION  UTM
** DATUM  WGE
** UNITS  METER
** ZONE  11
** HEMISPHERE  N
** ORIGINLON  0
** ORIGINLAT  0
** PARALLEL1  0
** PARALLEL2  0
** AZIMUTH  0
** SCALEFACT  0
** FALSEEAST  0
** FALSENORTH  0

** POSTFMT  UNFORM
** TEMPLATE REGULATORY,0
** AERMODEXE  AERMOD_BREEZE_18081_64.EXE
** AERMAPEXE  AERMAP_EPA_18081_64.EXE



  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            3 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
                ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186      54       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.40
 MX W403      54       PFLCNV: Turbulence data is being used w/o ADJ_U* option       SigA Data
 MX W402      54       PFLCNV: Turbulence data being used with ADJ_U* w/o DFAULT        Option

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION  18081 ***   ***  Weston PM10 Exhaust unmit                                          ***
     01/28/20
 *** AERMET - VERSION  15181 ***   ***                                                                    ***
   15:49:43

   PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  RURAL  SigA Data

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses RURAL Dispersion Only.
```

```
 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.

 **Other Options Specified:
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Accepts FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM10

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:      1 Source(s);       1 Source Group(s); and       3 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:      0 VOLUME source(s)
                and:      1 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  15181

 **Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   205.00 ;  Decay Coef. =    0.000     ;  Rot. Angle
=     0.0
                  Emission Units = GRAMS/SEC                              ;  Emission Rate Unit Factor =
0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.5 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 *** AERMOD - VERSION  18081 ***   ***  Weston PM10 Exhaust unmit                                          ***
     01/28/20
 *** AERMET - VERSION  15181 ***   ***                                                                    ***
   15:49:43

   PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  RURAL  SigA Data


                                          *** AREAPOLY SOURCE DATA ***

              NUMBER EMISSION RATE   LOCATION OF AREA  BASE     RELEASE  NUMBER      INIT.   URBAN  EMISSION RATE
   SOURCE      PART.  (GRAMS/SEC       X        Y      ELEV.    HEIGHT  OF VERTS.     SZ     SOURCE  SCALAR VARY
     ID        CATS.   /METER**2)   (METERS) (METERS) (METERS) (METERS)            (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - -
```

```
 GKBY9003         0   0.40800E-06  498037.0 3676841.6     0.0     3.00       8         1.00     NO
↑ *** AERMOD - VERSION  18081 ***   ***  Weston PM10 Exhaust unmit                                          ***
     01/28/20
 *** AERMET - VERSION  15181 ***   ***                                                                      ***
   15:49:43

   PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  RURAL  SigA Data


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                             SOURCE IDs
 -----------                                             ----------


  ALL        GKBY9003    ,
↑ *** AERMOD - VERSION  18081 ***   ***  Weston PM10 Exhaust unmit                                          ***
     01/28/20
 *** AERMET - VERSION  15181 ***   ***                                                                      ***
   15:49:43

   PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  RURAL  SigA Data

                                           *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                             (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1
1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1
1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1
1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1
1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1
1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1
1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1
1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1

                      METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2012   1  1  1
                                                              AND END DATE: 2012  12 31 24

                 NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA
FILE.



                                  *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                          (METERS/SEC)

                                             1.54,   3.09,   5.14,   8.23,  10.80,
↑ *** AERMOD - VERSION  18081 ***   ***  Weston PM10 Exhaust unmit                                          ***
     01/28/20
 *** AERMET - VERSION  15181 ***   ***                                                                      ***
   15:49:43

   PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  RURAL  SigA Data

                                    *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:   C:\Users\XEONRT\AMAZON~1\LDN\18-63L~1\Aermod\ESCOND~1\ESCONDIDO-2012-V15181.SFC    Met Version:
15181
   Profile file:   C:\Users\XEONRT\AMAZON~1\LDN\18-63L~1\Aermod\ESCOND~1\ESCONDIDO-2012-V15181.PFL
```

Surface format: FREE

Profile format: FREE

Surface station no.: 53120 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA HT
12	01	01	1	01	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	51.	10.0	282.5 10.0
12	01	01	1	02	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	64.	10.0	281.9 10.0
12	01	01	1	03	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	31.	10.0	280.9 10.0
12	01	01	1	04	-2.9	0.056	-9.000	-9.000	-999.	32.	5.5	0.15	1.10	1.00	1.18	130.	10.0	280.4 10.0
12	01	01	1	05	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	47.	10.0	280.4 10.0
12	01	01	1	06	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	39.	10.0	279.8 10.0
12	01	01	1	07	-0.7	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	60.	10.0	279.2 10.0
12	01	01	1	08	-0.5	0.029	-9.000	-9.000	-999.	12.	4.0	0.47	1.10	0.50	0.44	42.	10.0	280.4 10.0
12	01	01	1	09	33.3	0.106	0.323	0.014	36.	83.	-3.2	0.47	1.10	0.30	0.44	44.	10.0	285.4 10.0
12	01	01	1	10	85.9	0.121	0.634	0.011	106.	101.	-1.8	0.48	1.10	0.23	0.44	232.	10.0	291.4 10.0
12	01	01	1	11	123.6	0.252	0.982	0.005	273.	303.	-11.5	0.48	1.10	0.21	1.34	242.	10.0	297.5 10.0
12	01	01	1	12	141.2	0.255	1.253	0.005	496.	309.	-10.4	0.48	1.10	0.20	1.34	249.	10.0	299.8 10.0
12	01	01	1	13	139.0	0.308	1.399	0.005	700.	410.	-18.6	0.48	1.10	0.20	1.78	244.	10.0	300.4 10.0
12	01	01	1	14	118.4	0.303	1.510	0.005	1033.	401.	-20.9	0.48	1.10	0.21	1.78	241.	10.0	301.4 10.0
12	01	01	1	15	79.3	0.291	1.390	0.005	1204.	377.	-27.6	0.48	1.10	0.24	1.78	260.	10.0	301.4 10.0
12	01	01	1	16	24.5	0.162	0.951	0.005	1244.	167.	-15.4	0.51	1.10	0.34	0.89	292.	10.0	299.8 10.0
12	01	01	1	17	-2.5	0.060	-9.000	-9.000	-999.	45.	7.5	0.51	1.10	0.61	0.89	282.	10.0	296.9 10.0
12	01	01	1	18	-0.6	0.029	-9.000	-9.000	-999.	12.	3.4	0.47	1.10	1.00	0.44	10.	10.0	293.1 10.0
12	01	01	1	19	-4.0	0.066	-9.000	-9.000	-999.	40.	6.3	0.11	1.10	1.00	1.48	329.	10.0	290.4 10.0
12	01	01	1	20	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	65.	10.0	288.1 10.0
12	01	01	1	21	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	61.	10.0	286.4 10.0
12	01	01	1	22	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	33.	10.0	285.4 10.0
12	01	01	1	23	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	50.	10.0	284.2 10.0
12	01	01	1	24	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	42.	10.0	283.1 10.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	10.0	1	51.	0.44	282.6	30.0	-99.00	0.20

F indicates top of profile (=1) or below (=0)

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): GKBY9003 ,

*** SENSITIVE DISCRETE RECEPTOR POINTS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
497879.00	3676869.70	0.58151	498115.10	3676672.00	0.50234
497783.70	3676960.60	0.16947			

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 1 YEARS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

NETWORK GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE GRID-ID
ALL	1ST HIGHEST VALUE IS	0.58151 AT	497879.00,	3676869.70,	0.00,	0.00,	1.50)	SR
	2ND HIGHEST VALUE IS	0.50234 AT	498115.10,	3676672.00,	0.00,	0.00,	1.50)	SR
	3RD HIGHEST VALUE IS	0.16947 AT	497783.70,	3676960.60,	0.00,	0.00,	1.50)	SR
	4TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)	
	5TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)	
	6TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)	
	7TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)	
	8TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)	
	9TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)	
	10TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

A Total of   0 Fatal Error Message(s)
A Total of   3 Warning Message(s)
A Total of   378 Informational Message(s)

A Total of   8784 Hours Were Processed

A Total of   250 Calm Hours Identified

A Total of   128 Missing Hours Identified (1.46 Percent)

   ******** FATAL ERROR MESSAGES ********
              *** NONE ***

   ********   WARNING MESSAGES   ********
ME W186   54   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.40
MX W403   54   PFLCNV: Turbulence data is being used w/o ADJ_U* option   SigA Data
MX W402   54   PFLCNV: Turbulence data being used with ADJ_U* w/o DFAULT   Option

   ****
   *** AERMOD Finishes Successfully ***
   ****

```
1                     AERMOD PRIME - (DATED  18081)

                     AERMODPrMSPx VERSION
              (C) COPYRIGHT 1998-2017, Trinity Consultants

 Run Began on  1/28/2020 at 15:53:56

** BREEZE AERMOD
** Trinity Consultants
** VERSION  8.1

CO STARTING
CO TITLEONE  Weston PM10 Exhaust mitigated
CO MODELOPT  DFAULT  CONC  NODRYDPLT  NOWETDPLT
CO RUNORNOT  RUN
CO AVERTIME  ANNUAL
CO POLLUTID  PM10
CO FLAGPOLE  1.5
CO FINISHED

SO STARTING
SO ELEVUNIT  METERS
SO LOCATION  GKBY9003  AREAPOLY  498037  3676841.6  0
** SRCDESCR  Construction Area
SO SRCPARAM  GKBY9003  2.64E-09  3  8  1
SO AREAVERT  GKBY9003  498037 3676841.6  498030.7 3676749.9  497956.9 3676747.5  497947.6 3676778.9
SO AREAVERT  GKBY9003  497948.1 3676783.4  497961.4 3676815.7  497969.6 3676839.4  498037 3676841.6
SO SRCGROUP  ALL
SO FINISHED

RE STARTING
RE ELEVUNIT  METERS
RE DISCCART  497879  3676869.7  0  0  1.5
** SENSITIV
** RCPDESCR  Preschool
RE DISCCART  498115.1  3676672  0  0  1.5
** SENSITIV
** RCPDESCR  Residential 1
RE DISCCART  497783.7  3676960.6  0  0  1.5
** SENSITIV
** RCPDESCR  Residential 2
RE FINISHED

ME STARTING
ME SURFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\18-63L~1\Aermod\ESCOND~1\ESCONDIDO-2012-V15181.SFC"
** SURFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\18-63L~1\Aermod\ESCOND~1\ESCONDIDO-2012-V15181.SFC"
ME PROFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\18-63L~1\Aermod\ESCOND~1\ESCONDIDO-2012-V15181.PFL"
** PROFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\18-63L~1\Aermod\ESCOND~1\ESCONDIDO-2012-V15181.PFL"
ME SURFDATA  53120 2012
ME UAIRDATA  3190 2012
ME SITEDATA  00001002 2012
ME PROFBASE  205  METERS
ME STARTEND  2012  1  1  1  2012  12  31  24
ME FINISHED

OU STARTING
OU FILEFORM  FIX
OU FINISHED

** **************************************************************************
** It is recommended that the user not edit any data below this line
** **************************************************************************


** AMPTYPE  NED
** AMPDATUM  2
** AMPZONE  11
** AMPHEMISPHERE  N
```

```
** PROJECTIONWKT
PROJCS["UTM_6326_Zone11",GEOGCS["WGS_84",DATUM["World_Geodetic_System_1984",SPHEROID["WGS_1984",6378137,298.2572235
63],TOWGS84[0,0,0,0,0,0,0]],PRIMEM["Greenwich",0],UNIT["Degree",0.0174532925199433]],PROJECTION["Universal_Transver
se_Mercator"],PARAMETER["Zone",11],UNIT["Meter",1,AUTHORITY["EPSG","9001"]]]
** PROJECTION  UTM
** DATUM  WGE
** UNITS  METER
** ZONE  11
** HEMISPHERE  N
** ORIGINLON  0
** ORIGINLAT  0
** PARALLEL1  0
** PARALLEL2  0
** AZIMUTH  0
** SCALEFACT  0
** FALSEEAST  0
** FALSENORTH  0

** POSTFMT  UNFORM
** TEMPLATE Regulatory,0
** AERMODEXE  AERMOD_BREEZE_18081_64.EXE
** AERMAPEXE  AERMAP_EPA_18081_64.EXE



  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            3 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
                ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186      54       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.40
 MX W403      54       PFLCNV: Turbulence data is being used w/o ADJ_U* option       SigA Data
 MX W402      54       PFLCNV: Turbulence data being used with ADJ_U* w/o DFAULT        Option

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION  18081 ***   ***  Weston PM10 Exhaust mitigated                                      ***
     01/28/20
 *** AERMET - VERSION  15181 ***   ***                                                                    ***
   15:53:56

   PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  RURAL  SigA Data

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses RURAL Dispersion Only.
```

```
 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.

 **Other Options Specified:
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Accepts FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM10

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:      1 Source(s);       1 Source Group(s); and       3 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:      0 VOLUME source(s)
                and:      1 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  15181

 **Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   205.00 ;  Decay Coef. =    0.000     ;  Rot. Angle
=     0.0
                  Emission Units = GRAMS/SEC                              ;  Emission Rate Unit Factor =
0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.5 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 *** AERMOD - VERSION  18081 ***   ***  Weston PM10 Exhaust mitigated                                        ***
     01/28/20
 *** AERMET - VERSION  15181 ***   ***                                                                      ***
   15:53:56

   PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  RURAL  SigA Data


                                          *** AREAPOLY SOURCE DATA ***

              NUMBER EMISSION RATE   LOCATION OF AREA  BASE     RELEASE  NUMBER      INIT.   URBAN  EMISSION RATE
   SOURCE      PART.  (GRAMS/SEC       X        Y      ELEV.    HEIGHT  OF VERTS.     SZ     SOURCE  SCALAR VARY
     ID        CATS.   /METER**2)   (METERS) (METERS) (METERS) (METERS)            (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - -
```

```
 GKBY9003         0   0.26400E-08  498037.0 3676841.6     0.0     3.00       8         1.00     NO
↑ *** AERMOD - VERSION  18081 ***   ***  Weston PM10 Exhaust mitigated                                      ***
     01/28/20
 *** AERMET - VERSION  15181 ***   ***                                                                    ***
   15:53:56

   PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  RURAL  SigA Data


                                            *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                             SOURCE IDs
 -----------                                             ----------


  ALL        GKBY9003    ,
↑ *** AERMOD - VERSION  18081 ***   ***  Weston PM10 Exhaust mitigated                                      ***
     01/28/20
 *** AERMET - VERSION  15181 ***   ***                                                                    ***
   15:53:56

   PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  RURAL  SigA Data

                                             *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                 (1=YES; 0=NO)

            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1
1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1
1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1
1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1
1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1
1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1
1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1
1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1

                       METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2012   1  1  1
                                                             AND END DATE: 2012  12 31 24

                NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA
FILE.



                                  *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                            (METERS/SEC)

                                                 1.54,   3.09,   5.14,   8.23,  10.80,
↑ *** AERMOD - VERSION  18081 ***   ***  Weston PM10 Exhaust mitigated                                      ***
     01/28/20
 *** AERMET - VERSION  15181 ***   ***                                                                    ***
   15:53:56

   PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  RURAL  SigA Data

                                    *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:   C:\Users\XEONRT\AMAZON~1\LDN\18-63L~1\Aermod\ESCOND~1\ESCONDIDO-2012-V15181.SFC    Met Version:
15181
   Profile file:   C:\Users\XEONRT\AMAZON~1\LDN\18-63L~1\Aermod\ESCOND~1\ESCONDIDO-2012-V15181.PFL
```

Surface format: FREE

Profile format: FREE

Surface station no.: 53120 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA HT
12	01	01	1	01	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	51.	10.0	282.5 10.0
12	01	01	1	02	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	64.	10.0	281.9 10.0
12	01	01	1	03	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	31.	10.0	280.9 10.0
12	01	01	1	04	-2.9	0.056	-9.000	-9.000	-999.	32.	5.5	0.15	1.10	1.00	1.18	130.	10.0	280.4 10.0
12	01	01	1	05	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	47.	10.0	280.4 10.0
12	01	01	1	06	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	39.	10.0	279.8 10.0
12	01	01	1	07	-0.7	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	60.	10.0	279.2 10.0
12	01	01	1	08	-0.5	0.029	-9.000	-9.000	-999.	12.	4.0	0.47	1.10	0.50	0.44	42.	10.0	280.4 10.0
12	01	01	1	09	33.3	0.106	0.323	0.014	36.	83.	-3.2	0.47	1.10	0.30	0.44	44.	10.0	285.4 10.0
12	01	01	1	10	85.9	0.121	0.634	0.011	106.	101.	-1.8	0.48	1.10	0.23	0.44	232.	10.0	291.4 10.0
12	01	01	1	11	123.6	0.252	0.982	0.005	273.	303.	-11.5	0.48	1.10	0.21	1.34	242.	10.0	297.5 10.0
12	01	01	1	12	141.2	0.255	1.253	0.005	496.	309.	-10.4	0.48	1.10	0.20	1.34	249.	10.0	299.8 10.0
12	01	01	1	13	139.0	0.308	1.399	0.005	700.	410.	-18.6	0.48	1.10	0.20	1.78	244.	10.0	300.4 10.0
12	01	01	1	14	118.4	0.303	1.510	0.005	1033.	401.	-20.9	0.48	1.10	0.21	1.78	241.	10.0	301.4 10.0
12	01	01	1	15	79.3	0.291	1.390	0.005	1204.	377.	-27.6	0.48	1.10	0.24	1.78	260.	10.0	301.4 10.0
12	01	01	1	16	24.5	0.162	0.951	0.005	1244.	167.	-15.4	0.51	1.10	0.34	0.89	292.	10.0	299.8 10.0
12	01	01	1	17	-2.5	0.060	-9.000	-9.000	-999.	45.	7.5	0.51	1.10	0.61	0.89	282.	10.0	296.9 10.0
12	01	01	1	18	-0.6	0.029	-9.000	-9.000	-999.	12.	3.4	0.47	1.10	1.00	0.44	10.	10.0	293.1 10.0
12	01	01	1	19	-4.0	0.066	-9.000	-9.000	-999.	40.	6.3	0.11	1.10	1.00	1.48	329.	10.0	290.4 10.0
12	01	01	1	20	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	65.	10.0	288.1 10.0
12	01	01	1	21	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	61.	10.0	286.4 10.0
12	01	01	1	22	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	33.	10.0	285.4 10.0
12	01	01	1	23	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	50.	10.0	284.2 10.0
12	01	01	1	24	-0.6	0.029	-9.000	-9.000	-999.	12.	3.3	0.47	1.10	1.00	0.44	42.	10.0	283.1 10.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	10.0	1	51.	0.44	282.6	30.0	-99.00	0.20

F indicates top of profile (=1) or below (=0)

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): GKBY9003 ,

*** SENSITIVE DISCRETE RECEPTOR POINTS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
497879.00	3676869.70	0.00376	498115.10	3676672.00	0.00325
497783.70	3676960.60	0.00110			

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 1 YEARS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

NETWORK GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00376 AT	497879.00,	3676869.70,	0.00,	0.00,	1.50)	SR
	2ND HIGHEST VALUE IS	0.00325 AT	498115.10,	3676672.00,	0.00,	0.00,	1.50)	SR
	3RD HIGHEST VALUE IS	0.00110 AT	497783.70,	3676960.60,	0.00,	0.00,	1.50)	SR
	4TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)	
	5TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)	
	6TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)	
	7TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)	
	8TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)	
	9TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)	
	10TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

A Total of   0 Fatal Error Message(s)
A Total of   3 Warning Message(s)
A Total of   378 Informational Message(s)

A Total of   8784 Hours Were Processed

A Total of   250 Calm Hours Identified

A Total of   128 Missing Hours Identified (1.46 Percent)

   ******** FATAL ERROR MESSAGES ********
              *** NONE ***

   ********   WARNING MESSAGES   ********
ME W186   54   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.40
MX W403   54   PFLCNV: Turbulence data is being used w/o ADJ_U* option   SigA Data
MX W402   54   PFLCNV: Turbulence data being used with ADJ_U* w/o DFAULT   Option

   ****
   *** AERMOD Finishes Successfully ***
   ****

ATTACHMENT C

Cancer Risk Calculations – Unmitigated and Mitigated Scenarios

Air Quality Health Risk Calculations (Worst-Case)
Green's Storage Unmitigated

From CalEE Annual Output	Emission per day (Ton/Total Construction Duration)	**0.10371**
	Construction Start	**2/15/2021**
	Construction Complete	**1/10/2022**
	Days	**329**
	Construction Emission per day (lb/day)	**0.630455927**
	Annual Duration (Days)	**365**
	Annualized Emission Rate (Grams/Second)	**0.003305515**
	Project Site Size (Acres)	**2**
	Project Site Size (meters^2)	**8093.712845**
	Length of Smalles Side (meters)	**89.96506458**
Used as an input to SCREEN3	Emission Rate over Grading Area(g/s-m^2)	**4.08E-07**
From SCREEN3*0.08	Concentration Annual (Ug/M^3)	**0.581**

	Days	Days to years					
Duration	329	0.901369863					
Age (Years)	3rd Trimester (0.25)	0-2	2-9	2-16	16-30	16-70	
Cair (annual) - From F15	0.581	0.581	0.581	0.581	0.581	0.581	
Breathing Rate per agegroup BR/BW (Page 5-25)	361	1090	861	745	335	290	
A (Default is 1)	1	1	1	1	1	1	
Exposure Frequency = EF (days/365days)	0.96	0.96	0.96	0.96	0.96	0.96	
10^-6 Microgram to Milligram / liters to m3	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	
Dose-inh	0.00020135	0.00060796	0.00048023	0.00041553	0.00018685	0.00016175	
Construction Days	329	0.901369863					
potency factor for Diesel	1.1	1.1	1.1	1.1	1.1	1.1	
Age Sensitivity Factor	10	10	3	3	1	1	
ED	0.25	0.901369863	0.901369863	0.901369863	0.901369863	0.901369863	
AT	70	70	70	70	70	70	
FAH	0.85	0.85	0.72	0.72	0.73	0.73	
Risk for Each Age Group	6.7237E-06	7.31965E-05	1.46927E-05	1.27132E-05	1.93202E-06	1.6725E-06	
Risk per million Exposed	6.7236972	73.19652572	14.69271135	12.71320553	1.932024864	1.672499136	
Cancer Risk Per Million 9-years	94.61						
Cancer Risk Per Million 30-years	94.57						
Cancer Risk Per Million 70-years	**94.31**						

Air Quality Health Risk Calculations (Worst-Case)
Greens Storage with Tier 4 PDF with DPF

From CalEE Annual Output	Emission per day (Ton/Total Construction Duration)	**0.00067**
	Construction Start	**2/15/2021**
	Construction Complete	**1/10/2022**
	Days	**329**
	Construction Emission per day (lb/day)	**0.004072948**
	Annual Duration (Days)	**365**
	Annualized Emission Rate (Grams/Second)	**0.000021**
	Project Site Size (Acres)	**2**
	Project Site Size (meters^2)	**8093.712845**
	Length of Smalles Side (meters)	**89.96506458**
Used as an input to SCREEN3	Emission Rate over Grading Area(g/s-m^2)	**2.64E-09**
From SCREEN3*0.08	Concentration Annual (Ug/M^3)	**0.0038**

	Days	Days to years				
Duration	458	1.254794521				
Age (Years)	3rd Trimester (0.25)	0-2	2-9	2-16	16-30	16-70
Cair (annual) - From F15	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038
Breathing Rate per agegroup BR/BW (Page 5-25)	361	1090	861	745	335	290
A (Default is 1)	1	1	1	1	1	1
Exposure Frequency = EF (days/365days)	0.96	0.96	0.96	0.96	0.96	0.96
10^-6 Microgram to Milligram / liters to m3	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001
Dose-inh	0.00000132	0.00000398	0.00000314	0.00000272	0.00000122	0.00000106
Construction Days	458	1.254794521				
potency factor for Diesel	1.1	1.1	1.1	1.1	1.1	1.1
Age Sensitivity Factor	10	10	3	3	1	1
ED	0.25	1.254794521	1.254794521	1.254794521	1.254794521	1.254794521
AT	70	70	70	70	70	70
FAH	0.85	0.85	0.72	0.72	0.73	0.73
Risk for Each Age Group	4.3976E-08	6.6645E-07	1.33776E-07	1.15753E-07	1.7591E-08	1.5228E-08
Risk per million Exposed	0.043975989	0.666449907	0.133776242	0.115752962	0.017590969	0.015228003

Cancer Risk Per Million 9-years	0.84
Cancer Risk Per Million 30-years	0.84
Cancer Risk Per Million 70-years	**0.84**