APPENDIX B

Air Quality and Greenhouse Gas Report
DSRT SURF, Palm Desert, CA

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March, 2019

AIR QUALITY AND GREENHOUSE GAS REPORT

DSRT SURF

Palm Desert, CA

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March 2019

AIR QUALITY AND GREENHOUSE GAS REPORT

DSRT SURF

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SECTION I. INTRODUCTION & PROJECT DESCRIPTION

A. Introduction

The purpose of this report is to assess the potential air quality impacts associated with the construction and operation of the proposed DSRT SURF Project ("Project"). This report describes the current air quality regulations and provides historical air quality monitoring concentrations and minimization measures to further reduce projected emissions of criteria pollutants and greenhouse gases.

B. Project Description

The Project site is partially developed and bounded by the Desert Willow Golf Course, Clubhouse and a parking lot on the north, Desert Willow Golf Course and Desert Willow Drive on the east, Desert Willow Golf Course, the Westin Desert Willow Villas, and Willow Ridge Drive on the west, and Desert Willow Golf Course on the south.

The Project proposes the development of a 5.5-acre surf lagoon and surf center facilities to include restaurant, bar, retail and similar facilities. It will also include up to 350 hotel rooms and up to 88 residential villas on the site. The Project will be implemented in two phases: Phase I includes development of the Surf Lagoon Planning Area, which will consist of the surf lagoon and associated amenities on 11.85 acres. Phase II includes development of the Hotels and Villas Planning Area, which will result in the construction of the hotel(s) and villas on approximately 5.84 acres.

A Specific Plan was prepared for the Project that will guide the development of the overall Project site. For purposes of analysis, the maximum buildout densities allowed in the Specific Plan will be assumed and is shown in Table 1, below.

Table 1
DSRT SURF Specific Plan
Specific Plan Land Uses

Surf Lagoon Planning Area (11.85 acres)	**Max/Min Allowed**
Surf Lagoon	Max 6 acres
Surf Center Building, including:	Max 35,000 SF
Restaurants/Bars	Max. 8,000* SF
Meetings/Events	Max. 6,000 SF
Retail	Max. 4,000 SF

Table 1 DSRT SURF Specific Plan Specific Plan Land Uses	
Surf Lagoon Planning Area (11.85 acres)	**Max/Min Allowed**
Ancillary Restrooms/Changing Rooms/Locker Buildings	Max 1,500 SF
Ancillary Rental Building(s)	Max 1,500 SF
East Lagoon Café and Bar	Max 2,750 SF
Maintenance and Equipment Buildings	Max 15,000 SF
Hotel and Villas Planning Area (5.84 acres)	**Max/Min Allowed**
Hotels	Max 350 rooms, Max 200,000 SF
Hotel Spa	Max 12,500 SF
Villas	Max 88 Villas; 1 to 4 bedrooms
Villa Clubhouse	Max 3,125 SF
Maintenance and Equipment Buildings	Max 2,500 SF

C. Project Location

The Project site is located on approximately 17.69 acres of land on the west side of Desert Willow Drive within the Desert Willow Golf Course in the City of Palm Desert, in the Coachella Valley region of Riverside County (Exhibit 1, 2, and 3).

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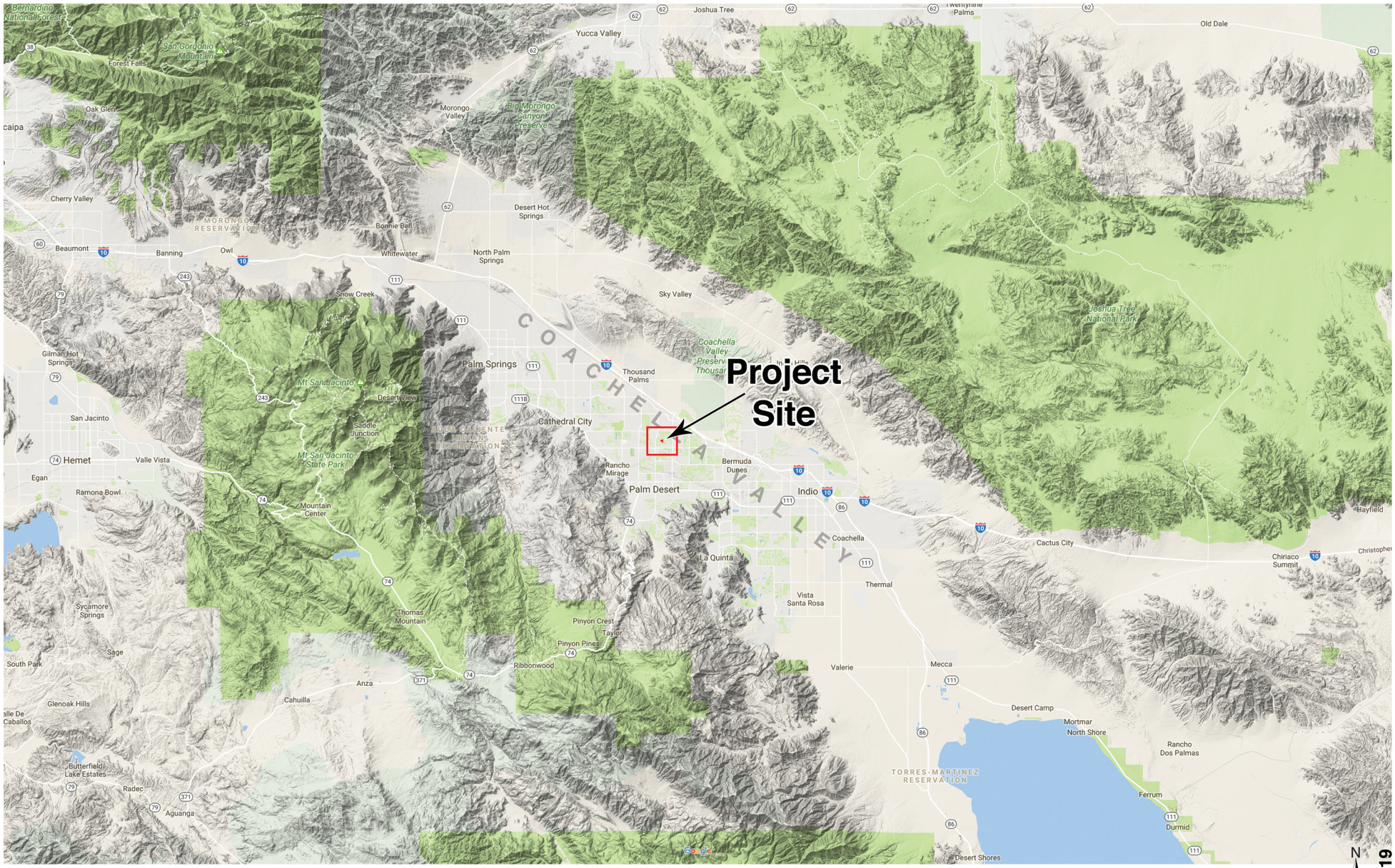
DSRT SURF
Regional Location Map
Palm Desert, California

DSRT SURF

Exhibit
1



Source: Google Maps, 2017

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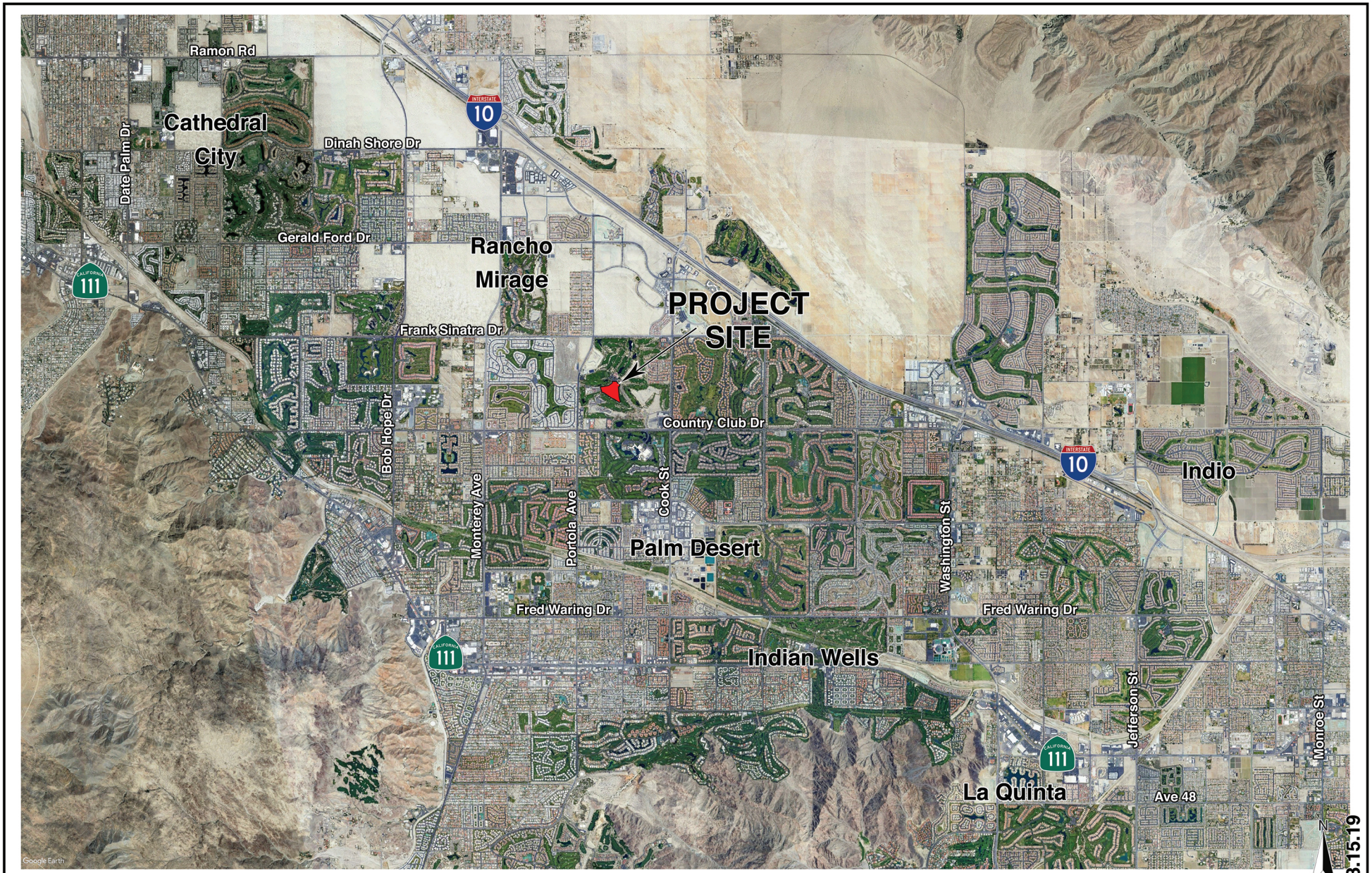
DSRT SURF
Area Location Map
Palm Desert, California

DSRT SURF

Exhibit

2



Source: Google Earth, 2018

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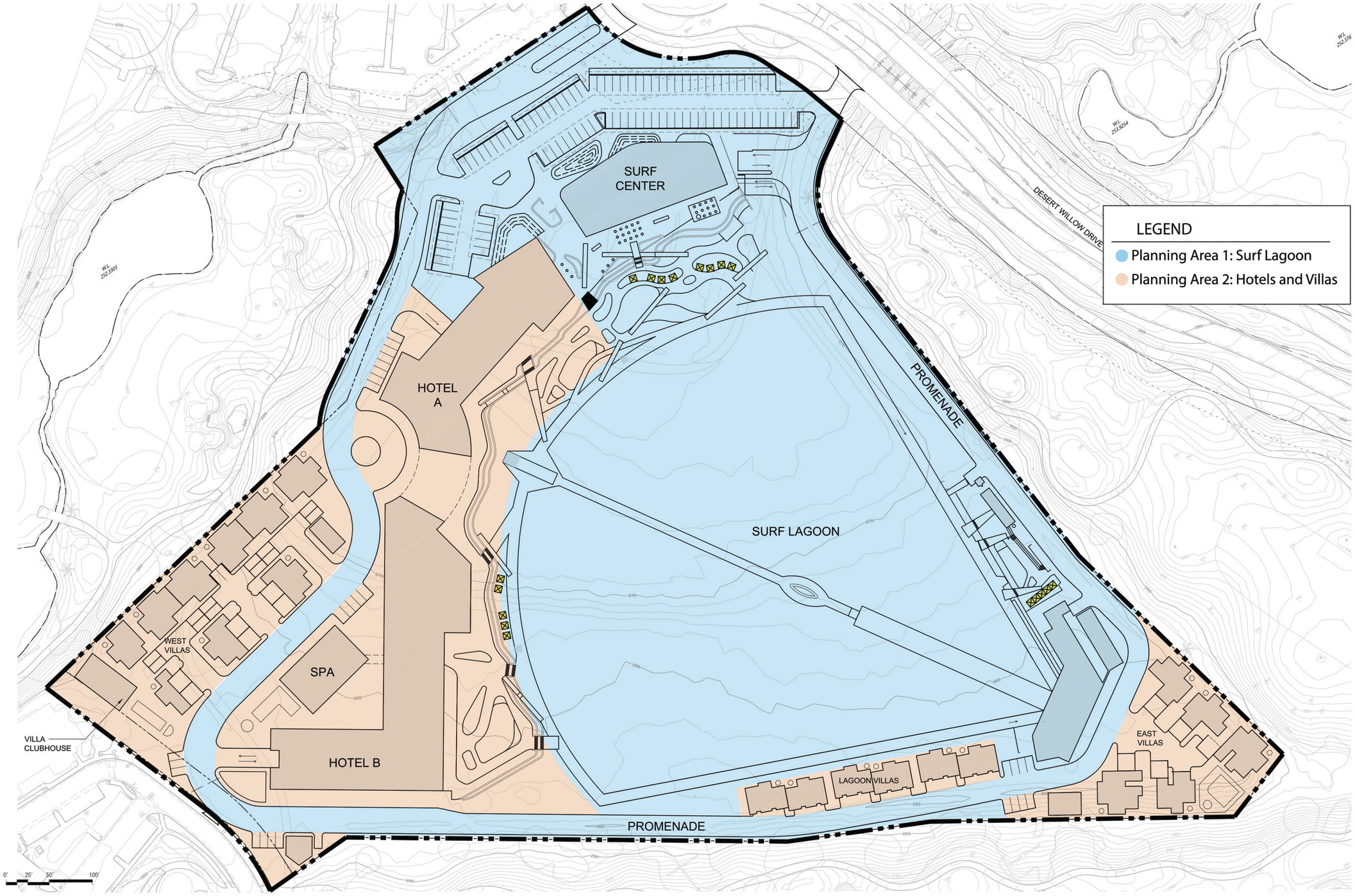
DSRT SURF
Vicinity Map
Palm Desert, California

DSRT SURF

Exhibit
3



Source: Delawie Architects, 2018

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DSRT SURF
Specific Plan Planning Area
Palm Desert, California

Exhibit
4

SECTION II. EXISTING CONDITIONS

Introduction

The project site is located within the Salton Sea Air Basin (SSAB) and is within the jurisdiction of the South Coast Air Quality Management District (SCAQMD). Air quality in the Salton Sea Air Basin has been impacted by emissions associated with increased development, population growth, and vehicle emissions. Although air pollution is emitted locally from various sources, some of the degradation of air quality within the Salton Sea Air Basin can be attributed to sources tributary to but located outside of the basin. In the project area, air quality is regulated by the SCAQMD, as well as federal and state policy.

A. Climatic Conditions and Air Quality

The proposed DSRT SURF Project is located within the Coachella Valley portion of the SSAB immediately east of the San Jacinto Mountains. Meteorological conditions are largely attributable to the low desert geographic setting and the mountains surrounding the region that isolate the Coachella Valley from moderating coastal influences and create a hot and dry low-lying desert condition. As the desert heats up a large area of thermal low pressure develops, which draws dense, cooler coastal air through the narrow San Gorgonio Pass and into the valley, generating strong winds that cross the most active fluvial (water-related) erosion zones in the valley. These strong winds sweep up, suspend and transport large quantities of sand and dust, reducing visibility, damaging property, and constituting a significant health threat. The region is also subject to seasonal northeasterly Santa Ana winds that are associated with high pressure parked over Nevada and the four corners region.

The Coachella Valley portion of the SSAB is typical of a low desert climate, with summer temperatures that frequently exceed 110°F and drop into the 20's during winter. The valley floor historically receives an average of four to six inches of rainfall per year with greater precipitation at higher elevations.

Air inversions, where a layer of stagnant air is trapped near the ground and is loaded with pollutants from motor vehicles and other sources, occasionally occur in the Coachella Valley due to local geological and climatic conditions. Inversions create conditions of haziness caused by suspended water vapor, dust, and a variety of chemical aerosols. Due to local climactic conditions, inversion layers generally form 6,000 to 8,000 feet above the desert floor.

Regulating agencies, including SCAQMD, have developed standards and regulations to reduce emissions and enhance air quality throughout the SSAB. These are further described below.

B. Air Quality Management and Regulation

Federal and state agencies have adopted air quality standards for a variety of pollutants. In 1971, the Environmental Protection Agency (EPA) established the National Ambient Air Quality Standards (NAAQS) for managing criteria pollutants. The California Clean Air Act (CCAA) became effective on January 1, 1989 and mandated health-based air quality standards at the state level. The California Air Resources Board (CARB) is responsible for enforcing state standards, which are generally more stringent than federal standards. One of the ways standards are applied is through State Implementation Plans (SIP), which are prepared to assist regional air quality management districts in meeting the federal and state ambient air quality standards in accordance with the deadlines specified in the federal Clean Air Act (CAA) and emission reduction targets of the California Clean Air Act.

Regional and local agencies have also assumed some responsibility for assuring that state and federal air quality standards are achieved. For the Coachella Valley, including the subject project site, the South Coast Air Quality Management District (SCAQMD) is responsible for establishing air quality measurement criteria and relevant management policies for the SSAB.

The 2003 PM_{10} Coachella Valley State Implementation Plan (CVSIP) was jointly developed by the SCAQMD, Coachella Valley Association of Governments (CVAG) and its member cities, and was approved by the U.S. EPA. The 2003 PM10 CVSIP updated the 1990 plan, which was drafted as a requirement of the federal Clean Air Act to demonstrate expeditious attainment of PM_{10} standards.[1] On April 18, 2003, the EPA approved the updated CVSIP.

The SSAB, including the Coachella Valley, is subject to the provisions of the SCAQMD Rule Book,[2] which sets forth policies and other measures designed to meet federal and state ambient air quality standards. These rules, along with SCAQMD's 2016 Air Quality Management Plan are intended to satisfy the planning requirements of both the federal and state Clean Air Acts. The SCAQMD also monitors daily pollutant levels and meteorological conditions throughout the District. Currently there are three monitoring sites in the Coachella Valley, located in Palm Springs, Indio, and Mecca.

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1 "2003 Coachella Valley PM10 State Implementation Plan, August 1, 2003, p.ES-1.

2 South Coast Air Quality Management District Rules and Regulations, Adopted February 4, 1977.

The California Environmental Quality Act (CEQA) also sets forth standards to determine a project's potential to affect air quality. These standards as defined by the California Environmental Quality Act (CEQA) are described below.

Air Quality and Greenhouse Gas Significance Thresholds

The following significant thresholds or criteria are not strictly those recommended in § 15064.7 of the CEQA Guidelines, rather they are derived from Appendix G of the Guidelines, and are used to determine if and to what extent a project may have a potentially significant impact on air quality. The project would have a significant effect to air quality if the Project would:

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; or

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Table 2 shows the SCAQMD significance thresholds for criteria pollutant emissions during construction and operation of a Project.

Table 2
SCAQMD Air Quality Significance Thresholds
Mass Daily Thresholds

Pollutant	Construction and Operation Thresholds
CO	550 lbs/day
NO_x	100 lbs/day
ROG	75 lbs/day
PM_{10}	150 lbs/day
$PM_{2.5}$	55 lbs/day
SOx	150 lbs/day
For the Coachella Valley, the mass daily thresholds for operation are the same as the construction thresholds.	

In addition, the Project would be considered to have a significant effect on greenhouse gas emissions if it is determined that the project would:

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

A significant effect on the environment is defined as a "substantial, or potentially substantial, adverse change to the environment" (California Public Resources Code Section 21068).

On December 5, 2008, the SCAQMD formally adopted a greenhouse gas significance threshold of 10,000 MTCO2e/year that only applies to stationary sources (industrial uses) where SCAQMD is the lead agency (SCAQMD Resolution No. 08-35). This threshold was adopted based upon an October 2008 staff report and draft interim guidance document[3] that also recommended a threshold for all projects using a tiered approach.

It was recommended by SCAQMD staff that a project's greenhouse gas emissions would be considered significant if it could not comply with at least one of the following "tiered" tests:

- **Tier 1**: Is there an applicable exemption?
- **Tier 2**: Is the project compliant with a greenhouse gas reduction plan that is, at a minimum, consistent with the goals of AB 32?
- **Tier 3**: Is the project below an absolute threshold (10,000 MTCO2e/yr for industrial projects; 3,000 MTCO2e/yr for residential and commercial projects)?
- **Tier 4**: Is the project below a (yet to be set) performance threshold?
- **Tier 5**: Would the project achieve a screening level with off-site mitigation?

C. Air Quality Standards

Federal and state air quality standards established for criteria pollutants are designed to protect the general population and especially that segment of the population that is most susceptible to respiratory distress or infection, including the elderly, children, asthmatics, or those who are weak from disease or illness.

The following air pollutants are collectively known as criteria air pollutants and are defined as those pollutants for which established air quality standards have been adopted by federal and state governments:

[3] Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold, prepared by SCAQMD, October 2008.

Ozone (O_3) is a pungent, colorless, toxic gas, and a component of photochemical smog. It is formed when byproducts of combustion react in the presence of ultraviolet sunlight. This process takes place in the atmosphere where oxides of nitrogen combine with reactive organic gases, such as hydrocarbons. Exposure to ozone can result in diminished breathing capacity, increased sensitivity to infections, and inflammation of the lung tissue. Children and people with pre-existing lung disease are most susceptible to the effects of ozone.

Carbon Monoxide (CO) is a colorless, odorless, toxic gas and a byproduct from the partial combustion of fossil fuels, most notably from automobiles and other motor vehicles. Carbon monoxide passes through the lungs directly into the blood stream and reduces the amount of oxygen reaching the vital organs, such as the heart, brain and tissues. In high concentrations, carbon monoxide can contribute to the development of heart disease, anemia, and impaired psychological behavior. Individuals that have heart and blood diseases, smokers, babies in utero, and people with chronic hypoxemia are most susceptible to the effects of CO. The SSAB is in non-attainment for the federal 8-hour O_3 standard.

Nitrogen Oxide (NO_x) includes Nitric oxide (NO) and Nitrogen dioxide (NO_2), which are the primary oxides of nitrogen, and combined are known as nitrogen oxides. These oxides are produced at high temperatures during combustion as byproducts of motor vehicles, power plants, and off-road equipment. NOx contributes to the formation of ozone serving as the primary receptor of ultraviolet light and initiating the photochemical reaction. Short-term exposure to nitrogen dioxide can result in airway constriction, diminished lung capacity, and is highly toxic by inhalation. Populations living near roadways are more likely to experience effects of nitrogen oxides due to elevated exposure to motor vehicle exhaust. The SSAB is in attainment for NO_2.

Sulfur Dioxide (SO_2) results from the combustion of high-sulfur content fuels, such as coal and petroleum. Sources include motor vehicle fuel combustion, chemical manufacturing plants, and sulfur recovery plants. Sulfur dioxide is a colorless, pungent, extremely irritating gas that can cause airway constriction and severe breathing difficulties in asthmatics. High levels of exposure can cause fluid accumulation in the lungs, damage to lung tissue, and sloughing off of cells lining the respiratory tract. The SSAB is in attainment for SO_2.

Particulate Matter (PM_{10} and $PM_{2.5}$) consist of fine suspended particles of ten microns or smaller in diameter, and are the byproducts of road dust, sand, diesel soot, windstorms, and the abrasion of tires and brakes. The elderly, children and adults with pre-existing respiratory or cardiovascular disease are most susceptible to the effects of PM. Elevated PM_{10} and $PM_{2.5}$ levels are also associated with an increase in mortality rates, respiratory infections, occurrences and severity of

asthma attacks and hospital admissions. The SSAB is a non- attainment area for PM_{10} and is classified as attainment/unclassifiable for $PM_{2.5}$.

Volatile Organic Compounds (VOC) are also known as Reactive Organic Gas (ROG). This class of pollutants has no state or federal ambient air quality standards and is not classified as criteria pollutants; however, they are regulated because they are responsible for contributing to the formation of ozone. They also contribute to higher PM_{10} levels because they transform into organic aerosols when released into the atmosphere. VOCs pose a health threat when people are exposed to high concentrations. Benzene, for example, is a hydrogen component of VOC emissions known to be a carcinogen.

Lead (Pb) occurs in the atmosphere as particulate matter resulting from the manufacturing of batteries, paint, ink, and ammunition. Exposure to lead can result in anemia, kidney disease, gastrointestinal dysfunction, and neuromuscular and neurological disorders. Babies in utero, infants, and children are especially susceptible to health risks associated with exposure to lead by impacting the central nervous system and cause learning disorders. The SSAB is in attainment for lead.

Table 3 on the following page shows the state and national ambient air quality standards for criteria pollutants.

Table 3
State and National Ambient Air Quality Standards

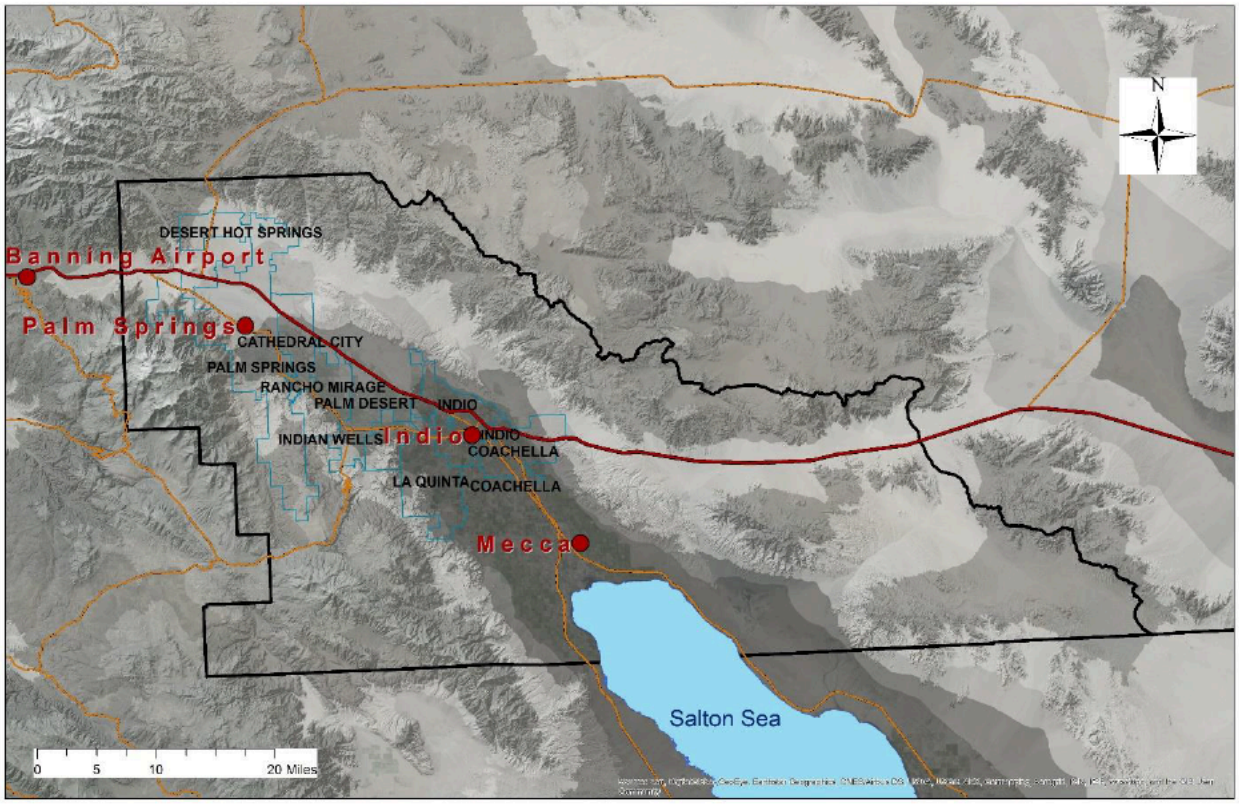
Pollutant	State Standards		National Standards**	
	Avg. Time	Concentration	Avg. Time	Concentration
Ozone (O_3)	1-hour 8-hour	0.09 ppm 0.07 ppm	1-hour 8-hour	None 0.070 ppm
Carbon Monoxide (CO)	1-hour 8-hour	20.0 ppm 9.0 ppm	1-hour 8-hour	35.0 ppm 9.0 ppm
Nitrogen Dioxide (NO_2)	1-hour AAM	0.18 ppm 0.030 ppm	1-hour AAM	0.10 ppm 0.053 ppm
Sulfur Dioxide (SO_2)	1-hour 24-hour AAM	0.25 ppm 0.04 ppm None	1-hour 24-hour AAM	0.075 ppm 0.14 ppm 0.03 ppm
Particulate Matter (PM_{10})	24-hour AAM	50 $\mu g/m^3$ 20 $\mu g/m^3$	24-hour AAM	150 $\mu g/m^3$ None
Particulate Matter ($PM_{2.5}$)	AAM 24-hour	12 $\mu g/m^3$ None	AAM 24-hour	12 $\mu g/m^3$ 35 $\mu g/m^3$
Lead	30-day Avg.	1.5 $\mu g/m^3$	3-month Avg.	0.15 $\mu g/m^3$
Visibility Reducing Particles	8-hour	No standard	No Federal Standards	
Sulfates	24-hour	25$\mu g/m^3$		
Hydrogen Sulfide	1-hour	0.03 ppm		
Vinyl Chloride	24-hour	0.01 ppm		

Source: California Air Resources Board, 1/3/19.
Notes: ppm = parts per million; ppb= parts per billion; $\mu g/ m^3$ = micrograms per cubic meter of air;
AAM = Annual Arithmetic Mean.

The air quality of a particular locale is considered to be in attainment if the measured ambient air pollutant levels for O_3, CO, SO_2 (1-hour and 24-hour), NO_2, and PM_{10} and $PM_{2.5}$ are not exceeded and all other standards are not equaled or exceeded at any time in any consecutive three-year period. Attainment also assumes the national standards (other than O_3, PM_{10}, and those based on annual averages or arithmetic mean) are not exceeded more than once per year. The O_3 standard is in attainment when the fourth highest eight-hour concentration in a year, averaged over three years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when 99 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Refer to Table 1 above for attainment standards.

D. Regional Air Quality Monitoring

The South Coast Air Quality Management District operates and maintains three air quality monitoring stations within Source Receptor Area (SRA) 30 (Coachella Valley). SR 30 includes the Indio, Palm Springs and Mecca monitoring stations, which have been operational since 1985, 1987, and 2013, respectively. Both Indio and Palm Springs stations monitor for ozone, PM_{10} and $PM_{2.5}$. The Mecca station monitors for PM_{10}.The map below shows the locations of the three monitoring stations in the Coachella Valley.



The following tables show the maximum concentration and number of days annual that state and federal standards for ozone and particulate matter (PM_{10} and $PM_{2.5}$) were exceeded between 2010 and 2017 in the Coachella Valley.

Table 4 shows that the annual average for PM_{10} was higher at the Indio and Mecca stations between 2010 and 2017. Limited 24-hour state data has been provided from all three stations the past several years, however it is assumed that PM_{10} levels continue to exceed state and federal standards until otherwise reported.

Table 4
PM_{10} Monitoring Data for the Coachella Valley

Monitoring Station	Year	Maximum Concentration (µg/m³/24hours) **	No. Days Exceeding 24-hr. Standards		Annual Average (µg/m³)
			Federal[1]	State[2]	AAM[3]
Palm Springs	2010	144.8	0.0	0.0	19.4
	2011	396.9	2.0	0.0	21.7
	2012	143.4	0.0	0.0	19.9
	2013	185.8	1.0	13.1	23.1
	2014	313.8	1.1	*	25.4
	2015	199.0	1.0	*	20.9
	2016	447.2	1.1	*	23.1
	2017	105.6	0.0	*	22.1
Indio	2010	107.0	0.0	23.9	28.8
	2011	375.9	2.0	18.6	32.6
	2012	270.6	*	43.2	33.6
	2013	255.2	3.0	85.2	37.5
	2014	322.3	6.1	94.9	43.5
	2015	381.0	*	*	44.0
	2016	393.2	*	135.7	37.0
	2017	198.6	1.0	*	34.8
Mecca	2014	*	*	*	*
	2015	306.4	5.0	*	44.2
	2016	468.9	*	*	41.1
	2017	477.6	*	81.5	47.5

Source: Annual air quality site monitoring reports per ARB. http://www.arb.ca.gov/adam/ Accessed January 2019.
1. 150 µg/m3 in 24-hour period;
2. 50 µg/m3 in 24-hour period;
3. Federal Annual Average Standard AAM > 50µg/m3
* There are insufficient (or no) data available to determine the value.
** Data may include exceptional events.

Table 5 shows that both the federal 24-hour $PM_{2.5}$ standard and the AAM state standard of >12 µg/m^3 have not been exceeded at either monitoring station from 2010 to 2017.

Table 5
$PM_{2.5}$ Monitoring Data for the Coachella Valley

Monitoring Station	Year	Max Concentration (µg/m^3/24hours)	No. Days Exceeding 24-hr. Federal Standards [a]	Annual Average (µg/m^3) AAM [b, c]
Palm Springs	2010	12.8	0.0	5.9
	2011	26.3	0.0	6.0
	2012	15.5	0.0	6.5
	2013	18.5	0.0	6.5
	2014	15.5	*	*
	2015	22.7	*	*
	2016	14.7	0	*
	2017	14.5	0	6.0
Indio	2010	16.0	0.0	6.8
	2011	35.4	0.0	7.2
	2012	18.4	0.0	7.6
	2013	25.8	0.0	8.3
	2014	18.3	*	*
	2015	24.6	*	*
	2016	25.8	0	7.6
	2017	18.8	*	*

Source: Annual air quality site monitoring reports, ARB. http://www.arb.ca.gov/adam/ Accessed January 2019.
1. 35 µg/m^3 in 24-hour period.
2. State Annual Average Standard = AAM > 12µg/m^3
* There was insufficient (or no) data available to determine the value.

Table 6 shows that the Palm Springs monitoring station exceeds the 8-hour federal and state ozone standards more frequently than the Indio site. This exceedance is attributable to the Palm Springs station's location closer to the San Gorgonio Pass where ozone is imported into the SSAB from air basins to the west.

Table 6
Ozone Monitoring Data for the Coachella Valley

Monitoring Station	Year	Max. Concentration		No. Days Standard Exceeded		
				Federal[1]	State[2]	
		1 Hour ppm	8 Hour ppm	8 Hour	1 Hour	8 Hour
Palm Springs	2010	0.114	0.099	52	20	78
	2011	0.124	0.099	49	21	69
	2012	0.126	0.101	51	17	79
	2013	0.113	0.104	46	10	82
	2014	0.108	0.093	55	9	61
	2015	0.102	0.092	47	3	51
	2016	0.103	0.092	46	6	48
	2017	0.113	0.097	57	18	63
Indio	2010	0.100	0.087	45	6	45
	2011	0.099	0.090	40	3	42
	2012	0.102	0.089	43	2	45
	2013	0.105	0.087	35	2	38
	2014	0.095	0.091	24	2	30
	2015	0.093	0.085	11	0	12
	2016	0.099	0.089	27	3	29
	2017	0.107	0.093	44	8	47

Source: ARB Annual Air Quality Data Tables. http://www.arb.ca.gov/adam/ Accessed January 2019.
1. 0.070 parts per million for the 8-hour standard.
2. 0.09 and 0.070 parts per million in 1-hour and 8-hour respectively.

Criteria Air Pollutants Summary

Air quality in the Salton Sea Air Basin exceeds state and federal standards for fugitive dust (PM_{10}) and ozone (O_3), and is in attainment/unclassified for $PM_{2.5}$. Ambient air quality in the SSAB, including the project site, does not exceed state and federal standards for carbon monoxide, nitrogen dioxides, sulfur dioxide, lead, sulfates, hydrogen sulfide, or Vinyl Chloride. The following table shows the basin's federal and state attainment status for criteria pollutants.

Table 7
Salton Sea Air Basin Designation Status

Criteria Pollutants	Federal Designation	State Designation
Ozone – 8-hour standard	Nonattainment	Nonattainment
Carbon Monoxide	Attainment	Attainment
Nitrogen Dioxide	Attainment	Attainment
Sulfur Dioxide	Attainment	Attainment
PM_{10}	Nonattainment	Nonattainment
$PM_{2.5}$	Attainment	Attainment
Source: U.S. EPA Green Book last updated December 2018, accessed January 2019.		

E. Regional Pollutants of Concern

Local air quality conditions are determined by climate, geography, and regional activities, including grading, construction and vehicular traffic, as well as heating, cooling, and ventilation equipment. The criteria pollutants of concern in the project area and the Coachella Valley are ozone (O_3), and particulate matter (PM_{10}, and $PM_{2.5}$). These are further described below:

<u>PM_{10} Emissions</u>
Historically, PM_{10} levels in the Coachella Valley are elevated due to fugitive dust emissions from grading and construction activities, agricultural practices, and strong wind. The finer materials, including sand and silt, can be picked up and transported by the wind and are referred to as "blowsand". PM_{10} particles associated with blowsand are of two types: (1) natural PM_{10} produced by direct particle erosion and fragmentation, and (2) secondary PM_{10} whereby sand deposited on roadways is further pulverized by motor vehicles and then re-suspended in the air by those vehicles. The project is located in a PM_{10} non-attainment area for the state and federal PM_{10} standard.

The Coachella Valley had become eligible for redesignation as attainment due to the annual average PM_{10} concentrations meeting the revoked federal standard. On February 25, 2010 the California Air Resources Board approved the Coachella Valley PM_{10} Redesignation Request and Maintenance Plan from serious non-attainment to attainment for the PM_{10} National Ambient Air Quality Standard under CAA Section 107. The PM10 data from the Coachella Valley monitors shows attainment of the PM10 24-hour NAAQS after the removal of the flagged high-wind exceptional events, for which SCAQMD supporting documentation will be submitted and subsequent U.S. EPA approval will be required. However, U.S. EPA has requested that SCAQMD conduct additional ambient monitoring in the southeastern portion of the Coachella Valley before the redesignation can be considered. This new station has been in operation

since 2013 in the community of Mecca, and redesignation will be revisited upon analysis of the required 3 full years of data. As of January 2019, the Environmental Protection Agency has not re-designated the PM_{10} classification for the Coachella Valley[4]. The Coachella Valley continues to exceed the state standard and is in a serious non-attainment area for PM_{10}.

SCAQMD employs measures to reduce particulate matter in the District, sets forth new measures that could further reduce particulate matter, and lists those new measures that need further evaluation prior to implementation. In addition, applicable state code and AQMD Rules, including Rule 403 (Fugitive Dust), enforce fugitive dust compliance for all activities within the SSAB.

Ozone Emissions

Under the Federal Clean Air Act, the Coachella Valley portion of the SSAB is classified as a "severe-15" O_3 non-attainment area for the 8-hour state standard, which means that the region must come into compliance with Federal ozone standards by December 31, 2027. With future emission controls, the Coachella Valley will achieve the 2008 8-hour federal O_3 standard by 2024.

SCAQMD studies indicate that most O_3 is transported to the Salton Sea Air Basin from the upwind South Coast Air Basin (SCAB). It is difficult to quantify the amount of ozone contributed from SCAB; however, reduced O_3 concentration in the SSAB depends, in part, upon reduced ozone emissions in the South Coast Air Basin.

F. Climate Change and Greenhouse Gasses

Air pollution is a chemical, physical or biological process that modifies the chemistry and other characteristics of the atmosphere. The primary contributor to air pollution is the burning of fossil fuels used in transportation, power and heat generation, and industrial processes. The byproducts from the combustion of fossil fuels can contain a number of air polluting substances. These emissions are responsible for the poor air quality that is evident in industrial centers worldwide.

Some air polluting agents are also greenhouse gases (GHG) such as carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), and fluorinated gases (hydrofluorocarbons, perfluorocarbons and sulfur hexafluoride), which are released into the atmosphere through natural processes and human activities. These gases are termed greenhouse gases due to their shared characteristic of trapping heat, and are believed to be responsible for the global average increase in surface temperatures of 0.7-1.5 °F that were observed during the 20th century.[5] The quantity of greenhouse gases in the atmosphere has increased

[4] "EPA Green Book Designated Non-attainment Areas for All Criteria Pollutants," Accessed January 2019.
[5] U.S. Environmental Protection Agency, State of Knowledge.

significantly over a relatively short period. More recently, the concentration of CO_2 in the atmosphere had increased by 42%, methane by 15%, and NOx by 9% from 1990 to 2010.[6]

Carbon dioxide is the primary greenhouse gas that has raised the most concern of atmospheric scientists due to current atmospheric levels, current and projected emission levels, and the highly correlated temperature regression curve that has been observed, predicting a future path of rising carbon dioxide levels. Currently (2015), carbon dioxide concentrations in the atmosphere are around 400 ppm. Comparatively, prior to the Industrial Revolution, about 250 years ago, CO_2 levels were 278 ppm, and over the past 650,000 years carbon dioxide levels have fluctuated between 180 and 300 ppm, making present day atmospheric CO_2 levels substantially greater than at any point in the past 650,000 years.[7]

California is the second largest greenhouse gas contributor in the U.S. and the sixteenth largest in the world. In 2004, California produced 492 million metric tons of CO_2 equivalent (MMTCO2e), which was approximately 7% of all U.S. emissions. However, in 2015, California's total emissions were 440.4 $MMTCO_2e$, representing an overall decrease of 10% since peak levels in 2004. During the 2000 to 2015 period, per capita GHG emissions in California continued to drop from a peak in 2001 of 14.0 tons per person to 11.3 tons per person in 2015, a 19% decrease.[8] This decrease may be due to increases in the effectiveness of energy conservation in buildings (Title 24 requirements) and the increased use of renewable energy, including solar generation, hydropower, and wind energy.

The transportation sector remains the largest source of GHG emissions in the state, accounting for 37% of California's emissions in 2015. Regulations and improved fuel efficiency of the state's vehicle fleet will drive down emissions over time, but population growth, lower fuel prices, improved economic conditions and higher employment rates are potential factors that may increase fuel use.[9]

There is much debate over what the effects of climate change will be, but there is a general consensus that the levels of emissions need to be reduced in order to minimize GHG emissions and limit the amount of carbon dioxide and other pollutants that are released into the atmosphere.

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6 U.S. Environmental Protection Agency, Figure 1: Global Greenhouse Gas Emissions by Gas, 1990-2010, May 2014. http://www.epa.gov/climatechange/science/recentac.html

7 "Working Group III Contribution to the Intergovernmental Panel on Climate Change Fourth Assessment Report, Climate Change 2007: Mitigation of Climate Change," prepared by the Intergovernmental Panel on Climate Change, May 2007.

8 "California Greenhouse Gas Emission Inventory: 2000-2015," California Environmental Protection Agency Air Resources Board, June 6, 2017.

9 Ibid.

Climate Change Regulation

California was the first state to establish regulations that require the reduction of emissions of GHGs from motor vehicles. On September 24, 2004, the California Air Resources Board adopted a bill that requires all motor vehicles of 2009 vintage or later to reduce their greenhouse gas emissions by about 30% by the year 2016. On June 1, 2005 Governor Arnold Schwarzenegger issued executive order S-3-05, which calls for reduction in GHG emission to 1990 levels by 2020 and for an 80 percent reduction below 1990 levels by 2050.

Assembly Bill 32 (AB 32)

Assembly Bill 32 (AB 32), the California Global Warming Solutions Act, was adopted by the State legislature in 2006. It sets forth a program to achieve 1990 emission levels by 2020 and requires CARB to proclaim 1990 GHG emissions and develop a Scoping Plan that sets forth GHG reduction methods. CARB reported that 1990 GHG emissions totaled 427 million metric tons (MMT) in California; CARB adopted a GHG scoping plan on December 11, 2008. The Scoping Plan includes a cap and trade program, green building strategies, recycling and waste reduction, and Voluntary Early Actions and Reductions.

Senate Bill 32 (SB 32)

More recently, Executive Order B-30-15 was issued by Governor Brown on April 29, 2015, establishing a new California goal to reduce greenhouse gas emissions to 40 percent below 1990 levels by 2030 and ensuring the State will continue its efforts to reduce carbon pollution. Most recently, this 40% target was codified through Senate Bill 32 (2016), which adds section 38566 to the Health and Safety Code and requires that CARB ensure statewide GHG emissions meet the 40% reduction target no later than December 31, 2030.

Senate Bill 375 (SB 375)

Senate Bill 375 (SB 375) was signed by the Governor in September 2008 and is intended to, at least in part, implement greenhouse gas reduction targets set forth in AB 32 by setting regional "caps" on the GHGs emitted by the transportation sector. The bill encourages regional land use planning to reduce vehicle miles traveled and requires Metropolitan Planning Organizations (MPOs) to adopt a Sustainable Communities Strategy (SCS) as part of their Regional Transportation Plans. The applicable MPO for the Coachella Valley is the Southern California Association of Governments (SCAG), which adopted its most recent Regional Transportation Plan and Sustainable Communities Strategy in April 2016. The current reduction targets from SCAG's RTP and SCS are a 9% reduction by 2020 and a 16% reduction by 2035, as compared to 2005 emissions levels.

State Vehicle Standards

In response to the transportation sector accounting for more than half of California's carbon dioxide (CO_2) emissions, AB 1493 was enacted in 2002. AB 1493 required CARB to set GHG emission standards for passenger vehicles, light-duty trucks, and other vehicles determined by the state board to be vehicles whose primary use is noncommercial personal transportation in the state. The bill required that CARB set GHG emission standards for motor vehicles manufactured in 2009 and all subsequent model years. The 2009–2012 standards resulted in a reduction in approximately 22% GHG emissions compared to emissions from the 2002 fleet, and the 2013–2016 standards resulted in a reduction of approximately 30%.

In 2012, CARB approved a new emissions-control program for model years 2017 through 2025. The program combines the control of smog, soot, and global warming gases and requirements for greater numbers of zero-emission vehicles into a single package of standards called Advanced Clean Cars. By 2025, when the rules would be fully implemented, new automobiles would emit 34% fewer global warming gases and 75% fewer smog-forming emissions (CARB 2011).

Climate Action Plans

Palm Desert Greenhouse Gas Inventory[10]

The Palm Desert Greenhouse Gas Inventory, completed in 2008, was the City's first major planning effort toward climate protection. It quantified the City's 2008 baseline year GHG emissions, including those emitted by municipal and community-wide sources. It also "back-casted" 1990 GHG emissions and projected future emissions under "business-as-usual" conditions.

Palm Desert Environmental Sustainability Plan[11]

The GHG Inventory described above served as a baseline guide for the Palm Desert Environmental Sustainability Plan (2010, updated 2016). The Plan is consistent with the goals of AB 32 and calls for a ten-year, three-phase period to address emissions reductions goals. It includes recommended actions categorized into six "resource areas": 1) the built environment, 2) energy management, 3) materials management, 4) regional air quality, 5) transportation, and 6) water management.

Phase I includes 20 policies and programs that will reduce carbon emissions by about 37,538 metric tons annually, a reduction of 6% from the 2008 baseline and

10 "Palm Desert Greenhouse Gas Inventory," EcoMotion, 2008.

11 "City of Palm Desert Environmental Sustainability Plan," Terra Nova Planning & Research, 2016.

15% of the total emissions requirement to reach the City's reduction goal of 378,145 metric tons of annual emissions. Phases II and III are long-term strategies that build upon Phase I initiatives.

Greenhouse Gasses Analyzed

For the purpose of this analysis the emission of the following greenhouse gases are evaluated: carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O).

Carbon Dioxide (CO_2): is an odorless and colorless gas that is emitted from natural sources such as the decomposition of dead organic matter, respiration of bacteria, plants, animals and fungus, evaporation from oceans, and volcanic out gassing. Manmade sources of CO_2 include the combustion of coal, oil, natural gas, and wood. Carbon dioxide is naturally removed from the air by photosynthesis, dissolution into ocean water, transfer to soils and ice caps, and chemical weathering of carbonate rocks.

Methane (CH_4): is released naturally as part of biological processes such as in low oxygen environments like swamplands, bogs, or in rice production (at the roots of the plants) and in cattle raising. Mining of coal, the combustion of fossil fuels and biomass burning also generate methane emissions. Methane is a more efficient absorber of radiation compared to CO_2, however its atmospheric concentration is less than carbon dioxide.

Nitrous Oxide (N_2O): is more commonly known as laughing gas and is a colorless greenhouse gas that in small doses can cause dizziness, euphoria, and sometimes slight hallucinations.

Chlorofluorocarbons (CFCs): CFCs are gases formed synthetically by replacing all hydrogen atoms in methane or ethane (C_2H_6) with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the Earth's surface). CFCs have no natural source, but were first synthesized in 1928. It was used for refrigerants, aerosol propellants, and cleaning solvents. Due to the discovery that they are able to destroy stratospheric ozone, a global effort to halt their production was undertaken and in 1989 the European Community agreed to ban CFCs by 2000 and subsequent treaties banned CFCs worldwide by 2010. This effort was extremely successful, and the levels of the major CFCs are now remaining level or declining. However, their long atmospheric lifetimes mean that some of the CFCs will remain in the atmosphere for over 100 years.

Hydrofluorocarbons (HFCs): HFCs are synthetic man-made chemicals that are used as a substitute for CFCs. Out of all the GHGs, they are one of three groups

with the highest global warming potential. The HFCs with the largest measured atmospheric abundances are (in order), HFC-23 (CHF_3), HFC-134a (CF_3CH_2F), and HFC-152a (CH_3CHF_2). Prior to 1990, the only significant emissions were HFC-23. HFC-134a use is increasing due to its use as a refrigerant. Concentrations of HFC-23 and HFC-134a in the atmosphere are now about 10 parts per trillion (ppt) each. Concentrations of HFC-152a are about 1 ppt. HFCs are manmade for applications such as automobile air conditioners and refrigerants.

Perfluorocarbons (PFCs): PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere. High-energy ultraviolet rays about 60 kilometers above Earth's surface are able to destroy the compounds. Because of this, PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane (CF_4) and hexafluoroethane (C_2F_6). Concentrations of CF_4 in the atmosphere are over 70 ppt. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing.

Sulfur Hexafluoride (SF_6): SF_6 is an inorganic, odorless, colorless, nontoxic, nonflammable gas. Sulfur hexafluoride is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.

SECTION III. PROPOSED PROJECT IMPACTS

The following discussion describes the major sources of air pollutants associated with the development and operation of the DSRT SURF Project.

A. Air Quality Emissions

Construction Emissions

Construction of the proposed Project is assumed to occur over a two-year period starting in mid-2019 with buildout in mid-2021. Construction emissions are assumed to be continuous across the two-year buildout period, and include all components of the Specific Plan area. This approach provides a conservative projection of maximum daily emissions with the potential for multiple Project components to be under construction at one time. Construction-related criteria pollutant emissions will be temporary and will end once construction is complete.

The proposed Project would result in 17.69 acres of disturbance (acreage rounding based on the Precise Plan). Construction would require the export of approximately 103,000 cubic yards of surplus earthen material to the Classic Club, approximately 2.5 miles northeast of the subject property[12]. Therefore, it is assumed that each haul round trip would be approximately 5 miles. This represents a worse-case hauling distance, since the City may also allow the off-loading of Project-related soil export within vacant areas of the Desert Willow project, which are much closer than the 5 miles associated with the Classic Club location.

Additional assumptions include:

- Surf lagoon: 6-acre "recreation swimming pool" (CalEEMod terminology)
- General Retail: 45,000 square feet. This includes the Surf Center and square footage for mechanical rooms, changing room, and other ancillary buildings proposed for Phase 1
- Restaurant/Bars: 11,250 square feet. This only accounts for Phase 1 restaurant space; however, CalEEMod assumes "hotels" will include restaurant space for Phase 2.
- Hotel: 438 rooms (350 hotel rooms and 88 villas), assumes 500,000 square feet
- Parking: 520 parking spaces, multi-level structure with elevator
- Other asphalt: 1 acre for off-site parking and internal roadways

[12] CalEEMod assumes the average haul load is 20 tons (or 16 cy) per trip.

The following table describes pollutant emissions during construction of the proposed Project. Data represent maximum daily emissions expected over the 2-year buildout period.

Table 8
Construction Emissions Summary
Proposed Project
(lbs./day)

	CO	NO_x	ROG	SO_x	PM_{10}	$PM_{2.5}$
Max. Daily Emissions	65.67	99.43	65.90	0.14	9.58	6.11
SCAQMD Threshold*	**550.00**	**100.00**	**75.00**	**150.00**	**150.00**	**55.00**
Exceeds Threshold	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod Version 2016.3.2. See Appendix A for detailed tables. Value shown represents the average unmitigated emissions of summer and winter outputs.
* Source: "SCAQMD Air Quality Significance Thresholds" prepared by SCAQMD.
Note: PM_{10} and $PM_{2.5}$ emissions are shown as "mitigated" in the CalEEMod output tables; however, the mitigation used is standard dust control requirements, such as watering exposed onsite soil 3 times per day.

As shown in the table above, SCAQMD daily thresholds for CO, NO_x, ROG, SOx, PM_{10} and $PM_{2.5}$ will not be exceeded during construction of the proposed Project. Impacts will be less than significant.

Sensitive Receptors

The purpose of analyzing Localized Significance Thresholds (LST) is to determine whether a project may generate significant adverse localized air quality impacts to the nearest exposed individual or sensitive receptor. Land uses that are sensitive receptors include, but are not limited to schools, churches, residences, hospitals, day care facilities, and elderly care facilities. The nearest sensitive receptors to the proposed Project are resort residences approximately 150 feet to the west, in the Westin Desert Willow villas project.

Analysis of LSTs by a local government is voluntary and is designed for projects that are less than or equal to five acres. The maximum area of disturbance associated with buildout of the proposed Project is approximately 17.69 acres, and it is assumed that buildout would occur over the course of two years. Although the total project area is greater than five acres, the area of daily disturbance (for purposes of LST analysis only) is limited to five acres or less per day

at any given location.[13] As such, the five-acre look up table is appropriate under the SCAQMD's methodology to screen for potential localized air quality impacts.[14]

The Mass Rate Look-Up tables for LSTs were used to determine if the proposed Project would have the potential to generate significant adverse localized air quality impacts during construction. The LST for Source Receptor Area (SRA) 30 (Coachella Valley) was used to determine LST emission thresholds. The distance from the emission source and the maximum daily site disturbance also determines emission thresholds. For analysis purposes, the worst-case scenario of a sensitive receptor being within 25 meters was used.

The following table shows that LST thresholds are not expected to be exceeded for any criteria pollutant during construction. Therefore, impacts to sensitive receptors will be less than significant.

Table 9
Localized Significance Thresholds
25 Meters, 5 Acres
(lbs per day)

	CO	NO_x	PM_{10}	$PM_{2.5}$
Construction	65.67	99.43	9.58	6.11
LST Threshold*	2,292.00	304.00	14.00	8.00
Exceed?	No	No	No	No
Source of Emission Data: CalEEMod Version 2016.3.2, see Appendix A. Source of LST Threshold: LST Mass Rate Look-up Table, 25 meters, 5 acres, SCAQMD.				

[13] The equipment specific grading rates are based on the SCAQMD's Fact Sheet for Applying CalEEMod to Localized Significance Thresholds guidance document. Per SCAQMD's guidance, the identified equipment is used to determine the maximum daily soil disturbance area for the purposes of evaluating localized construction impacts and is not an exhaustive list of all equipment that would be used during project construction. Additionally, the acreage identified in this table is used for the purposes of identifying a conservative Localized Significance Threshold (i.e., smaller disturbed areas have lower Localized Significance Thresholds) and does not represent a daily limit on the grading allowed on the site. In summary, the LST methodology focuses on the equipment that may be operated and acreage that may be disturbed in areas immediate proximate to potential sensitive receptors, even if other equipment may be operated or other acreage may be disturbed in areas that are farther away from the sensitive receptor.

[14] South Coast AQMD, "Fact Sheet for Applying CalEEMod to Localized Significance Thresholds."

Potential Construction Odors

The proposed Project has the potential to result in short-term odors associated with operation of heavy equipment during grading, excavation, and other construction activities. However, construction-related odors would be temporary and quickly dispersed below detectable levels as distance from the construction area increases.

Operational Emissions

Operational emissions are those released over the long-term life of the proposed Project. They include emissions generated by area, energy, and mobile sources. Area sources include consumable products, such as building maintenance and cleaning supplies, kitchen and restroom supplies, pavement off-gassing, and periodic reapplication of architectural coatings. Energy sources include the direct and indirect use of fossil fuels for energy, including natural gas and electricity use in buildings, parking lot lighting, ventilation equipment, and elevators. Mobile emissions are generated by motor vehicle trips.

The following table describes pollutant emissions during operation of the proposed Project. Data represent maximum daily emissions. Separate emissions estimates are provided for typical operations versus special event operations. As explained in Section 1, the Project could host special events that attract up to 3,500 spectators and require use of an overflow parking lot and shuttle service. Trip generation numbers are those reported in the Project-specific traffic impact analysis: 5,496 weekday daily trips during typical operations, and 7,288 weekend daily trips during special events. It is also assumed that the average trip length is 25 miles to account for visitors traveling to the project site from greater distances throughout the valley.

As shown in Table 10, Project-generated operational emissions will not exceed SCAQMD thresholds for CO, ROG, SO_x, PM_{10}, or $PM_{2.5}$ during typical operations or special events. However, Project-generated NO_x emissions will exceed SCAQMD thresholds during both types of operations. Emissions projections represent worst-case conditions, and actual emissions may be lower than projected.

Table 10
Operational Emissions Summary
Proposed Project: Typical Operation vs. Special Events
(lbs./day)

	CO	NO_x	ROG	SO_x	PM_{10}	$PM_{2.5}$
Typical Operation:						
Area	0.13	0.00	14.16	0.00	0.00	0.00
Energy	7.48	8.91	0.98	0.05	0.68	0.68
Mobile	129.16	107.65	12.85	0.45	26.60	7.35
TOTAL:	**136.77**	**116.56**	**27.99**	**0.50**	**27.28**	**8.03**
SCAQMD Threshold*	**550.00**	**100.00**	**75.00**	**150.00**	**150.00**	**55.00**
Exceeds Threshold	**No**	**Yes**	**No**	**No**	**No**	**No**
Special Event Operation:						
Area	0.13	0.00	14.16	0.00	0.00	0.00
Energy	7.48	8.91	0.98	0.05	0.68	0.68
Mobile	173.61	143.63	17.13	0.61	35.96	9.94
TOTAL:	**181.22**	**152.54**	**32.27**	**0.66**	**36.64**	**10.62**
SCAQMD Threshold*	**550.00**	**100.00**	**75.00**	**150.00**	**150.00**	**55.00**
Exceeds Threshold	**No**	**Yes**	**No**	**No**	**No**	**No**

Source: CalEEMod Version 2016.3.2. See Appendix A for detailed tables. Value shown represents the average emissions of summer and winter outputs.
* Source: "SCAQMD Air Quality Significance Thresholds" prepared by SCAQMD.

Projected NO_x exceedances are largely associated with the number of vehicle trips expected to be generated at Project buildout. The number of Project-related vehicle trips may also be reduced, to some extent, by the use of alternative modes of transportation by those accessing the Project site. A Sunline Transit Agency bus stop is located immediately adjacent to Desert Willow Golf Resort, at the intersection of Country Club Drive and Desert Willow Drive. A Class III bike lane extends along Country Club Drive, just outside the Desert Willow Golf Resort. Use of these facilities by Project patrons and employees would reduce Project-related vehicle trips and consumption of fossil fuels.

However, the elective use of alternative modes of transportation by Project patrons cannot be confidently quantified and applied as a mitigation measure. Therefore, operational impacts will continue to exceed NOx emissions under the current analysis methods, and impacts will be significant and unavoidable.

Sensitive Receptors

Because the proposed land uses do not include major stationary polluters (such as a landfill, chemical plant, oil field, refineries etc), LST analysis was not

conducted or required for Project operation. Therefore, impacts to sensitive receptors will be less than significant.

Potential Odors
During Project operation, odors may be emitted from onsite restaurants and food service facilities; however, all facilities would be equipped with proper ventilation systems to effectively remove grease, smoke, and other odors. Impacts associated with odors will be less than significant. The Project is not expected to result in other emissions adversely affecting a substantial number of people.

B. Greenhouse Gas Emissions

Construction Emissions

Construction of the Proposed Project is anticipated to occur over a two-year period starting in mid-2019 with build out in mid-2021. Project components are listed below; during construction of each component, fossil fuel use by construction equipment, machinery, haul trucks, and employees' commuter vehicles will generate short-term GHG emissions. Due to the cumulative nature of GHG impacts, all project components have been analyzed concurrently. Phasing of the proposed Project will likely reduce GHG emission concentrations.

- Surf Lagoon and Surf Center
- Hotel and Villas
- Off-Site Improvements:
    - Stormwater Management
    - Pool/Lagoon Discharge
    - Golf Course Turf Reduction
    - Landscaping Improvements
    - Special Events Parking
    - Soil Removal/Storage

The California Emissions Estimator Model (CalEEMod), version 2016.3.2, was used to estimate Project-related GHG emissions during construction (see Appendix A). The results are summarized in the following table. GHG emissions will be temporary and will end once construction is complete. All components of construction, including equipment, fuels, and materials, will be subject to current regulations of GHGs and equipment efficiency standards, which are meant to reduce GHG emissions.

Table 11
Construction GHG Emissions Summary
(Metric Tons/Year)

	CO_2	CH_4	N_2O	Total CO_2e
Buildout	1,404.68	0.18	0.00	1,408.87

Source: CalEEMod Versions 2016.3.2. See Appendix A for detailed tables. Values shown represent the total unmitigated GHG emission projections for construction of the proposed Project. CO_2e includes the remaining GHG pollutants, such as hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride.

There are currently no construction-related GHG emission thresholds for projects of this nature. To determine if construction emissions will result in a significant impact, build out GHG emissions were amortized over a 30-year period and added to annual operational emissions to be compared to applicable GHG thresholds.[15] The results are shown in Table 12.

Operational Emissions

Operational emissions will occur throughout the life of the Project. At buildout, five emission source categories will contribute either directly or indirectly to operational GHG emissions: energy/electricity usage, water usage, solid waste disposal, area emissions (pavement and architectural coating off-gassing), and mobile sources

CalEEMod was used to estimate annual operational GHG emissions generated by the proposed Project (see Appendix A) under two scenarios: 1) typical operations, and 2) special event operations. The results are summarized in the following table.

[15] "Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans," SCAQMD, December 5, 2008.

Table 12
Operational GHG Emission Summary
(Metric Tons/Year)

	CO_2	CH_4	N_2O	CO_2e
Typical Operations	16,907.63	24.91	0.12	17,565.85
Buildout plus Amortized Construction Emissions				17,612.81
Special Events Operations	19,547.10	25.11	0.12	20,210.18
Buildout plus Amortized Construction Emissions				20,257.14

Source: CalEEMod Version 2016.3.2. See Appendix A for detailed tables. Values shown represent the total unmitigated GHG emission projections for operation of the proposed Project under two scenarios.
1. Buildout construction GHG emissions were amortized over 30 years then added to buildout operational GHG emissions. 1,408.87/30 = 46.96

The bulk of GHG emissions will be generated during Project operation, with special events generating more than typical operations. Operational emissions will be largely due to the number of vehicle trips generated by the Project.

On December 5, 2008, the SCAQMD formally adopted a greenhouse gas significance threshold of 10,000 MTCO2e/yr that only applies to stationary sources (industrial uses) where SCAQMD is the lead agency (SCAQMD Resolution No. 08-35). This threshold was adopted based upon an October 2008 staff report and draft interim guidance document[16] that also recommended a threshold for all projects using a tiered approach. It was recommended by SCAQMD staff that a project's greenhouse gas emissions would be considered significant if it could not comply with at least one of the following "tiered" tests:

Tier 1: Is there an applicable exemption?
Tier 2: Is the project compliant with a greenhouse gas reduction plan that is, at a minimum, consistent with the goals of AB 32?
Tier 3: Is the project below an absolute threshold (10,000 MTCO2e/yr for industrial projects; 3,000 MTCO2e/yr for residential and commercial projects)?
Tier 4: Is the project below a (yet to be set) performance threshold?
Tier 5: Would the project achieve a screening level with off-site mitigation?

The Project would not comply with Tiers 1, 3, 4, or 5. It would, however, be regulated by the City's Environmental Sustainability Plan, which is described in Section 2.8.3 and consistent with the goals of AB 32. Therefore, the Project would

[16] Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold, prepared by SCAQMD, October 2008.

comply with Tier 2. Mitigation Measure GHG-1 assures that the Project adheres to the Environmental Sustainability Plan, and its implementation would reduce potential impacts to less than significant levels.

The Project would not conflict with the goals of executive order S-3-05 or the 40% GHG reduction goal codified through Senate Bill 32 (2016) because it is not considered a "large emitter" of GHGs (25,000 MT CO_2e/year) requiring cap-and-trade regulation per CARB's regulatory measure to help achieve statewide GHG reduction goals. The project is also consistent with regional GHG reduction goals, as they pertain to the Project, by adhering to the required state Low Carbon Fuel Standard for construction equipment and heavy-duty vehicle efficiency standards.

C. Cumulative Impacts

Air Quality

The Coachella Valley portion of the SSAB is classified as a "non-attainment" area for PM_{10} and ozone. The Project's contribution to cumulative increases in PM_{10}, ozone, and ozone precursors (CO, NOx, and ROG) is addressed here and in Section 2.3.9, below. Cumulative air quality analysis is evaluated on a regional scale (rather than a neighborhood scale or city scale, for example) given the dispersing nature of pollutant emissions and aggregate impacts from surrounding jurisdictions and air management districts. Any development project or activity resulting in emissions of PM_{10}, ozone, or ozone precursors will unavoidably contribute, to some degree, to regional non-attainment designations of ozone and PM_{10}.

The proposed Project will contribute to increased regional PM_{10} emissions; however, its contributions will not be cumulatively considerable. As shown in the tables above, Project-related PM_{10} emissions are projected to be well below established SCAQMD thresholds. Emissions will be further reduced through implementation of Mitigation Measure AQ-9 which requires implementation of a Dust Control Plan in accordance with SCAQMD Rule 403.1. Therefore, the proposed Project will result in incremental, but not cumulatively considerable impact on regional PM_{10} levels.

CO, NO_x, and ROG are precursors to ozone, for which the Coachella Valley is in non-attainment. The Project will not exceed thresholds for CO or ROG; however, it will contribute to increased regional NO_x emissions. As shown in Table 10, Project-related NO_x emissions will exceed SCAQMD thresholds during typical operations and special event operations. Motor vehicle trips are the primary source of NOx emissions during operation and cannot be mitigated through traditional means. Mitigation measures AQ-1 through AQ-8 provide a number of strategies to reduce

operational air emissions to the greatest extent possible, including but not limited to the provision of electric charging stations, the limitation of idling delivery vehicle times, and the creation of Employee Commute Reduction Programs for large employers within the Project. However, as previously mentioned, even with the implementation of these measures, impacts associated with operations of the proposed Project at build out will remain significant and unavoidable.

Greenhouse Gas

Cumulative impacts were analyzed on a regional scale due to the dispersing nature of pollutant emissions and aggregate impacts from surrounding jurisdictions and air management districts. Through analysis of the regional and statewide plans for GHG reductions, a summary of projects approach was used. The geographic scope for the analysis of potential cumulative greenhouse gas impacts is the overall Salton Sea Air Basin region in which the projects are being constructed and operated. However, some percentage of vehicular GHG emissions associated with the construction and operation of the proposed Project may also come from sources outside of the SSAB.

Operation of the proposed Project would exceed established SCAQMD thresholds and potential impacts would be mitigated through adherence to the City's Environmental Sustainability Plan. Therefore, the proposed Project will not make a cumulatively considerable contribution to GHG levels.

D. Conclusions

Development of the Project would violate State or Federal air quality standards for NOx emissions, which subsequently will substantially contribute to the existing ozone violation in the Salton Sea Air Basin. As previously mentioned, even with the implementation of mitigation measure strategies provided in Section V, impacts associated with operations of the proposed Project at build out will remain significant and unavoidable.

Operational greenhouse gas emission impacts would be mitigated through adherence to the City's Environmental Sustainability Plan. Therefore, the proposed Project will not make a cumulatively considerable contribution to GHG levels.

SECTION IV. PROJECT ALTERNATIVES

A. Alternative A: No Project / Northern Sphere Specific Plan

Alternative A assumes the site will build out according to land use designations and development standards for Planning Area 10 (PA 10) of the NSSP, which was planned for a "Luxury Hotel" with a maximum of 500 rooms. Buildout of Alternative C would result in the development of a 5-story hotel with a maximum of 500 rooms totaling 665,000 square feet (including 100,000 square feet of meeting/hall space), as well as 300,000 square feet of landscaping/pool/recreation facilities, and 660 parking spaces.

Construction Emissions

For analysis purposes, construction of Alternative A is assumed to occur over a two-year period starting in mid-2019 with buildout in mid-2021. Construction-related criteria pollutant emissions will be temporary and will end once construction is complete. It was assumed that construction would require the export of approximately 1,000 cubic yards of surplus earthen material to the Classic Club, approximately 2.5 miles northeast of the subject property[17]. Therefore, it is assumed that each haul round trip would be approximately 5 miles. This represents a worse-case hauling distance, since the City may also allow the off-loading of Project-related soil export within vacant areas of the Desert Willow project, which are much closer than the 5 miles associated with the Classic Club location.

The following table describes pollutant emissions during construction of Alternative A. Data represent maximum daily emissions expected over the 2-year buildout period.

Table 13
Construction Emissions Summary: Alternative A
(lbs./day)

	CO	NO_x	ROG	SO_x	PM_{10}	$PM_{2.5}$
Max. Daily Emissions	51.81	55.17	67.30	0.11	9.58	6.11
SCAQMD Threshold*	**550.00**	**100.00**	**75.00**	**150.00**	**150.00**	**55.00**
Exceeds Threshold	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod Version 2016.3.2. See Appendix A for detailed tables. Value shown represents the average unmitigated emissions of summer and winter outputs.

[17] CalEEMod assumes the average haul load is 20 tons (or 16 cy) per trip.

* Source: "SCAQMD Air Quality Significance Thresholds" prepared by SCAQMD.
Note: PM_{10} and $PM_{2.5}$ emissions are shown as "mitigated" in the CalEEMod output tables; however, the mitigation used is standard dust control requirements, such as watering exposed onsite soil 3 times per day.

As shown in the table above, SCAQMD daily thresholds for CO, NO_x, ROG, SOx, PM_{10} and $PM_{2.5}$ will not be exceeded during construction of Alternative A. Impacts will be less than significant, and somewhat lower than the proposed Project.

Sensitive Receptors

Similar to the proposed Project, maximum area of disturbance associated with buildout of Alternative A is approximately 17.69 acres, and it is assumed that buildout would occur over the course of two years. Although the total project area is greater than five acres, the area of daily disturbance (for purposes of LST analysis only) is limited to five acres or less per day at any given location.[18] As such, the five-acre look up table is appropriate under the SCAQMD's methodology to screen for potential localized air quality impacts.[19]

The Mass Rate Look-Up tables for LSTs were used to determine if Alternative A would have the potential to generate significant adverse localized air quality impacts during construction. The LST for Source Receptor Area (SRA) 30 (Coachella Valley) was used to determine LST emission thresholds. The distance from the emission source and the maximum daily site disturbance also determine emission thresholds. For analysis purposes, the worst-case scenario of a sensitive receptor being within 25 meters was used.

The following table shows that LST thresholds are not expected to be exceeded for any criteria pollutant during construction. Because the Alternative A land uses do not include major stationary polluters (such as a landfill, chemical plant, oil field, refineries etc), LST analysis was not conducted or required for operation.

[18] The equipment specific grading rates are based on the SCAQMD's Fact Sheet for Applying CalEEMod to Localized Significance Thresholds guidance document. Per SCAQMD's guidance, the identified equipment is used to determine the maximum daily soil disturbance area for the purposes of evaluating localized construction impacts and is not an exhaustive list of all equipment that would be used during project construction. Additionally, the acreage identified in this table is used for the purposes of identifying a conservative Localized Significance Threshold (i.e., smaller disturbed areas have lower Localized Significance Thresholds) and does not represent a daily limit on the grading allowed on the site. In summary, the LST methodology focuses on the equipment that may be operated and acreage that may be disturbed in areas immediate proximate to potential sensitive receptors, even if other equipment may be operated or other acreage may be disturbed in areas that are farther away from the sensitive receptor.

[19] South Coast AQMD, "Fact Sheet for Applying CalEEMod to Localized Significance Thresholds."

Therefore, impacts to sensitive receptors will be less than significant, consistent with the impacts resulting from the proposed Project.

Table 14
Localized Significance Thresholds: Alternative A
(lbs per day)

	CO	NO_x	PM_{10}	$PM_{2.5}$
Construction	51.81	55.17	9.58	6.11
LST Threshold*	**2,292.00**	**304.00**	**14.00**	**8.00**
Exceed?	**No**	**No**	**No**	**No**
Source of Emission Data: CalEEMod Version 2016.3.2, see Appendix A. Source of LST Threshold: LST Mass Rate Look-up Table, 25 meters, 5 acres, SCAQMD.				

Potential Construction-Related Odors

Alternative A is not expected to generate significant objectionable odors during any phase of construction. The proposed project has the potential to result in short-term odors associated with paving and other construction activities. However, construction-related odors would be quickly dispersed below detectable thresholds and as distance from the construction site increases. Therefore, impacts from objectionable odors are expected to be less than significant.

Operational Emissions

Operational emissions are those released over the long-term life of the project. They include emissions generated by area, energy, and mobile sources. Area sources include consumable products, such as building maintenance and cleaning supplies, kitchen and restroom supplies, pavement off-gassing, and periodic reapplication of architectural coatings. Energy sources include the direct and indirect use of fossil fuels for energy, including natural gas and electricity use in buildings, parking lot lighting, ventilation equipment, and elevators. Mobile emissions are generated by motor vehicle trips.

The following table describes maximum daily pollutant emissions during operation of Alternative A. Per the Project-specific traffic impact analysis, Alternative A would generate 4,180 weekday daily trips. As shown in the table, Alternative A operational emissions will not exceed SCAQMD thresholds for any criteria pollutant. Therefore, impacts are expected to be less than significant. Under the proposed Project, operational emissions of NOx would exceed SCAQMD thresholds during both typical operations and special events. Therefore, Alternative A would have lower operational emission impacts than the proposed Project.

Table 15
Operational Emissions Summary: Alternative A
(lbs./day)

	CO	NO_x	ROG	SO_x	PM_{10}	$PM_{2.5}$
Area	0.05	0.00	18.36	0.00	0.00	0.00
Energy	9.82	11.70	1.28	0.07	0.89	0.89
Mobile	75.47	73.53	8.89	0.26	13.53	3.75
TOTAL:	**85.34**	**85.23**	**28.53**	**0.33**	**14.42**	**4.64**
SCAQMD Threshold*	**550.00**	**100.00**	**75.00**	**150.00**	**150.00**	**55.00**
Exceeds Threshold	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod Version 2016.3.2. See Appendix A for detailed tables. Value shown represents the average emissions of summer and winter outputs.
* Source: "SCAQMD Air Quality Significance Thresholds" prepared by SCAQMD.

Sensitive Receptors
Because the proposed land uses do not include major stationary polluters (such as a landfill, chemical plant, oil field, refineries etc), LST analysis was not conducted or required for operation of Alternative A. Therefore, impacts to sensitive receptors will be less than significant.

Operational Emissions of Criteria Pollutants and Odors
During Project operation, odors may be emitted from onsite restaurants and food service facilities associated with the luxury hotel; however, all facilities would be equipped with proper ventilation systems to effectively remove grease, smoke, and other odors. Impacts associated with odors will be less than significant, as will impacts associated with the proposed Project. Alternative A is not expected to result in other emissions adversely affecting a substantial number of people.

Greenhouse Gas Emissions

Construction Related Greenhouse Gas Emissions
Construction of Alternative A is anticipated to occur over a two-year period starting in mid-2019 with build out in mid-2021. During construction, fossil fuel use by construction equipment, machinery, haul trucks, and employees' commuter vehicles will generate short-term GHG emissions.

The California Emissions Estimator Model (CalEEMod), version 2016.3.2, was used to estimate Alternative A-related GHG emissions during construction (see Appendix A). The results are summarized in the following table. GHG emissions will be temporary and will end once construction is complete. All components of construction, including equipment, fuels, and materials, will be subject to current

regulations of GHGs and equipment efficiency standards, which are meant to reduce GHG emissions.

Table 16
Construction GHG Emissions Summary: Alternative A
(Metric Tons/Year)

	CO_2	CH_4	N_2O	Total CO_2e
Buildout	1,025.48	0.12	0.00	1,028.55
Source: CalEEMod Versions 2016.3.2. See Appendix A for detailed tables. CO_2e includes the remaining GHG pollutants, such as hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride.				

There are currently no construction-related GHG emission thresholds for projects of this nature. To determine if construction emissions will result in a significant impact, build out GHG emissions were amortized over a 30-year period and added to annual operational emissions to be compared to applicable GHG thresholds.[20] The results are shown in the Table below.

Operational Greenhouse Gas Emissions

Operational emissions will occur throughout the life of the project. At buildout, five emission source categories will contribute either directly or indirectly to operational GHG emissions: energy/electricity usage, water usage, solid waste disposal, area emissions (pavement and architectural coating off-gassing), and mobile sources.

CalEEMod was used to estimate annual operational GHG emissions generated by Alternative A. The results are summarized in the following table.

Table 17
Operational GHG Emission Summary: Alternative A
(Metric Tons/Year)

	CO_2	CH_4	N_2O	CO_2e
Operation	10,993.31	4.31	0.09	11,127.48
Buildout plus Amortized Construction Emissions				11,167.76
Source: CalEEMod Version 2016.3.2. See Appendix A for detailed tables. 1. Buildout construction GHG emissions were amortized over 30 years then added to buildout operational GHG emissions. 1,028.55/30 = 34.28				

20 "Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans," SCAQMD, December 5, 2008.

On December 5, 2008, the SCAQMD formally adopted a greenhouse gas significance threshold of 10,000 MTCO2e/yr that only applies to stationary sources (industrial uses) where SCAQMD is the lead agency (SCAQMD Resolution No. 08-35). This threshold was adopted based upon an October 2008 staff report and draft interim guidance document[21] that also recommended a threshold for all projects using a tiered approach. It was recommended by SCAQMD staff that a project's greenhouse gas emissions would be considered significant if it could not comply with at least one of the following "tiered" tests:

Tier 1: Is there an applicable exemption?
Tier 2: Is the project compliant with a greenhouse gas reduction plan that is, at a minimum, consistent with the goals of AB 32?
Tier 3: Is the project below an absolute threshold (10,000 MTCO2e/yr for industrial projects; 3,000 MTCO2e/yr for residential and commercial projects)?
Tier 4: Is the project below a (yet to be set) performance threshold?
Tier 5: Would the project achieve a screening level with off-site mitigation?

Alternative A would not comply with Tiers 1, 3, 4, or 5. It would, however, be regulated by the City's Environmental Sustainability Plan, which is consistent with the goals of AB 32. Therefore, Alternative A would comply with Tier 2. Mitigation Measure GHG-1 assures that Alternative A adheres to the Environmental Sustainability Plan, and its implementation would reduce potential impacts to less than significant levels.

Cumulative Impacts

Air Quality
The Coachella Valley portion of the SSAB is classified as a "non-attainment" area for PM_{10} and ozone. The Alternative's contribution to cumulative increases in PM_{10}, ozone, and ozone precursors (CO, NOx, and ROG) is addressed here and in the "Cumulative Impacts" Section, below. Cumulative air quality analysis is evaluated on a regional scale (rather than a neighborhood scale or city scale, for example) given the dispersing nature of pollutant emissions and aggregate impacts from surrounding jurisdictions and air management districts. Any development project or activity resulting in emissions of PM_{10}, ozone, or ozone precursors will unavoidably contribute, to some degree, to regional non-attainment designations of ozone and PM_{10}.

[21] Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold, prepared by SCAQMD, October 2008.

Alternative A will contribute to increased regional PM_{10} emissions; however, its contributions will not be cumulatively considerable. As shown in the tables above, Alternative A-related PM_{10} emissions are projected to be well below established SCAQMD thresholds. Therefore, Alternative A will result in incremental, but not cumulatively considerable impact on regional PM_{10} levels, consistent with the impacts resulting from the proposed Project.

CO, NO_x, and ROG are precursors to ozone, for which the Coachella Valley is in non-attainment. Alternative A will not exceed thresholds for and of these pollutants as shown in Table 15. Therefore, Alternative A will result in incremental, but not cumulatively considerable impact on regional ozone levels.

Greenhouse Gas

Alternative A would not conflict with the goals of executive order S-3-05 or the 40% GHG reduction goal codified through Senate Bill 32 (2016) because it is not considered a "large emitter" of GHGs (25,000 MT CO_2e/year) requiring cap-and-trade regulation per CARB's regulatory measure to help achieve statewide GHG reduction goals. The project is also consistent with regional GHG reduction goals, as they pertain to Alternative A, by adhering to the required state Low Carbon Fuel Standard for construction equipment and heavy-duty vehicle efficiency standards.

Construction-related GHG emissions will not exceed GHG thresholds for construction because no such thresholds have been established. Operational GHG emissions would also not exceed SCAQMD thresholds because Alternative A complies with their Tier 2 test and will implement Mitigation Measure GHG-1 to assure Alternative A complies with the Palm Desert Environmental Sustainability Plan, which is qualitatively consistent with Statewide goals and policies in place for the reduction of GHG emissions. With mitigation, Alternative A-related impacts would be less than significant.

Conclusions

Development of Alternative A would not violate State or Federal air quality standards or substantially contribute to an existing air quality violation in the Salton Sea Air Basin, nor will it conflict with or obstruct implementation of the SCAQMD Air Quality Management Plan or applicable GHG reduction plans. Alternative A will not create objectionable odors affecting a substantial number of people. The project is not of local air quality concern and will not result in a CO or PM_{10} hotspots.

Alternative A will adhere to all regulatory requirements to assure that air pollutant emissions generated by the subject undertaking are minimized. Furthermore, the recommendations set forth in Section V are designed to limit air pollutant emissions resulting from Alternative A. As such, Alternative A would have a less than significant impact to air quality.

B. Alternative B: Mixed Use Alternative

Alternative B assumes buildout of approximately 77,100 square feet of commercial development, 177 residential dwelling units, and 817 parking spaces.

Construction Emissions

For analysis purposes, construction of Alternative B is assumed to occur over a two-year period starting in mid-2019 with buildout in mid-2021. Construction-related criteria pollutant emissions will be temporary and will end once construction is complete. It was also assumed that construction would require the export of approximately 1,000 cubic yards of surplus earthen material to the Classic Club, approximately 2.5 miles northeast of the subject property[22]. Therefore, it is assumed that each haul round trip would be approximately 5 miles. This represents a worse-case hauling distance, since the City may also allow the off-loading of Project-related soil export within vacant areas of the Desert Willow project, which are much closer than the 5 miles associated with the Classic Club location.

The following table describes pollutant emissions during construction of Alternative B. Data represent maximum daily emissions expected over the 2-year buildout period.

Table 18
Construction Emissions Summary: Alternative B
(lbs./day)

	CO	NO_x	ROG	SO_x	PM_{10}	$PM_{2.5}$
Max. Daily Emissions	44.88	55.17	33.25	0.08	9.58	6.11
SCAQMD Threshold*	**550.00**	**100.00**	**75.00**	**150.00**	**150.00**	**55.00**
Exceeds Threshold	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod Version 2016.3.2. See Appendix A for detailed tables. Value shown represents the average unmitigated emissions of summer and winter outputs.
* Source: "SCAQMD Air Quality Significance Thresholds" prepared by SCAQMD.
Note: PM_{10} and $PM_{2.5}$ emissions are shown as "mitigated" in the CalEEMod output tables; however, the mitigation used is standard dust control requirements, such as watering exposed onsite soil 3 times per day.

[22] CalEEMod assumes the average haul load is 20 tons (or 16 cy) per trip.

As shown in the table above, SCAQMD daily thresholds for CO, NO_x, ROG, SOx, PM_{10} and $PM_{2.5}$ will not be exceeded during construction of Alternative B. Impacts will be less than significant and somewhat lower than the level of emissions generated by the proposed Project, whose impacts will also be less than significant.

Sensitive Receptors

Similar to the proposed Project, maximum area of disturbance associated with buildout of Alternative B is approximately 17.69 acres, and it is assumed that buildout would occur over the course of two years. Although the total project area is greater than five acres, the area of daily disturbance (for purposes of LST analysis only) is limited to five acres or less per day at any given location. As such, the five-acre look up table is appropriate under the SCAQMD's methodology to screen for potential localized air quality impacts.[23]

The Mass Rate Look-Up tables for LSTs were used to determine if Alternative B would have the potential to generate significant adverse localized air quality impacts during construction. The LST for Source Receptor Area (SRA) 30 (Coachella Valley) was used to determine LST emission thresholds. The distance from the emission source and the maximum daily site disturbance also determines emission thresholds. For analysis purposes, the worst-case scenario of a sensitive receptor being within 25 meters was used.

The following table shows that LST thresholds are not expected to be exceeded for any criteria pollutant during construction. Therefore, impacts to sensitive receptors will be less than significant, as will those for the proposed Project.

Table 19
Localized Significance Thresholds: Alternative B
(lbs per day)

	CO	**NO_x**	**PM_{10}**	**$PM_{2.5}$**
Construction	44.88	55.17	9.58	6.11
LST Threshold*	**2,292.00**	**304.00**	**14.00**	**8.00**
Exceed?	**No**	**No**	**No**	**No**
Source of Emission Data: CalEEMod Version 2016.3.2, see Appendix A. Source of LST Threshold: LST Mass Rate Look-up Table, 25 meters, 5 acres, SCAQMD.				

23 South Coast AQMD, "Fact Sheet for Applying CalEEMod to Localized Significance Thresholds."

Potential Odors

Alternative B is not expected to generate significant objectionable odors during any phase of construction. The proposed project has the potential to result in short-term odors associated with paving and other construction activities. However, construction-related odors would be quickly dispersed below detectable thresholds and as distance from the construction site increases. Therefore, impacts from objectionable odors are expected to be less than significant.

Operational Emissions

The following table describes maximum daily pollutant emissions during operation of Alternative B. Per the Project-specific traffic impact analysis, Alternative B would generate 3,610 weekday daily trips. As shown in the table, Alternative B operational emissions will not exceed SCAQMD thresholds for any criteria pollutant. Therefore, impacts are expected to be less than significant, and will be lower than impacts associated with the proposed Project, which will be significant and unavoidable for NOx.

Table 20
Operational Emissions Summary: Alternative B
(lbs./day)

	CO	NO_x	ROG	SO_x	PM_{10}	$PM_{2.5}$
Area	15.28	1.67	7.05	0.01	0.20	0.20
Energy	0.33	0.74	0.09	0.00	0.06	0.06
Mobile	66.20	63.77	7.71	0.23	11.99	3.32
TOTAL:	**81.81**	**66.28**	**14.85**	**0.24**	**12.25**	**3.58**
SCAQMD Threshold*	**550.00**	**100.00**	**75.00**	**150.00**	**150.00**	**55.00**
Exceeds Threshold	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod Version 2016.3.2. See Appendix A for detailed tables. Value shown represents the average emissions of summer and winter outputs.
* Source: "SCAQMD Air Quality Significance Thresholds" prepared by SCAQMD.

Sensitive Receptors

Because the Alternative B land uses do not include major stationary polluters (such as a landfill, chemical plant, oil field, refineries etc), LST analysis was not conducted or required for operation.

Potential Odors

During Alternative B operation, odors may be emitted from onsite restaurants associated with the commercial land uses if proposed; however, all facilities would be equipped with proper ventilation systems to effectively remove grease,

smoke, and other odors. Impacts associated with odors will be less than significant. Alternative B is not expected to result in other emissions adversely affecting a substantial number of people.

Greenhouse Gas Emissions

Construction GHG Emissions

Construction of Alternative B is anticipated to occur over a two-year period starting in mid-2019 with build out in mid-2021. During construction, fossil fuel use by construction equipment, machinery, haul trucks, and employees' commuter vehicles will generate short-term GHG emissions.

The California Emissions Estimator Model (CalEEMod), version 2016.3.2, was used to estimate Alternative B-related GHG emissions during construction (see Appendix A). The results are summarized in the following table. GHG emissions will be temporary and will end once construction is complete. All components of construction, including equipment, fuels, and materials, will be subject to current regulations of GHGs and equipment efficiency standards, which are meant to reduce GHG emissions.

Table 21
Construction GHG Emissions Summary: Alternative B
(Metric Tons/Year)

	CO_2	CH_4	N_2O	Total CO_2e
Buildout	715.06	0.10	0.00	717.57

Source: CalEEMod Versions 2016.3.2. See Appendix A for detailed tables. CO_2e includes the remaining GHG pollutants, such as hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride.

There are currently no construction-related GHG emission thresholds for projects of this nature. To determine if construction emissions will result in a significant impact, build out GHG emissions were amortized over a 30-year period and added to annual operational emissions to be compared to applicable GHG thresholds.[24] The results are shown in Table 22.

Operational GHG Emissions

Operational emissions will occur throughout the life of the project. At buildout, five emission source categories will contribute either directly or indirectly to operational GHG emissions: energy/electricity usage, water usage, solid waste

[24] "Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans," SCAQMD, December 5, 2008.

disposal, area emissions (pavement and architectural coating off-gassing), and mobile sources.

CalEEMod was used to estimate annual operational GHG emissions generated by Alternative B. The results are summarized in the following table.

Table 22
Operational GHG Emission Summary: Alternative B
(Metric Tons/Year)

	CO_2	CH_4	N_2O	CO_2e
Operation	4,721.06	2.88	0.02	4,799.76
Buildout plus Amortized Construction Emissions				4,823.61

Source: CalEEMod Version 2016.3.2. See Appendix A for detailed tables.
1. Buildout construction GHG emissions were amortized over 30 years then added to buildout operational GHG emissions. 715.57/30 = 23.85

On December 5, 2008, the SCAQMD formally adopted a greenhouse gas significance threshold of 10,000 MTCO2e/yr that only applies to stationary sources (industrial uses) where SCAQMD is the lead agency (SCAQMD Resolution No. 08-35). This threshold was adopted based upon an October 2008 staff report and draft interim guidance document[25] that also recommended a threshold for all projects using a tiered approach. It was recommended by SCAQMD staff that a project's greenhouse gas emissions would be considered significant if it could not comply with at least one of the following "tiered" tests:

Tier 1: Is there an applicable exemption?
Tier 2: Is the project compliant with a greenhouse gas reduction plan that is, at a minimum, consistent with the goals of AB 32?
Tier 3: Is the project below an absolute threshold (10,000 MTCO2e/yr for industrial projects; 3,000 MTCO2e/yr for residential and commercial projects)?
Tier 4: Is the project below a (yet to be set) performance threshold?
Tier 5: Would the project achieve a screening level with off-site mitigation?

Alternative B would not comply with Tiers 1, 3, 4, or 5. It would, however, be regulated by the City's Environmental Sustainability Plan, which is described in Section 2.8.3 and consistent with the goals of AB 32. Therefore, Alternative B would comply with Tier 2. Mitigation Measure GHG-1 assures that Alternative B adheres to the Environmental Sustainability Plan, and its implementation would reduce potential impacts to less than significant levels.

[25] Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold, prepared by SCAQMD, October 2008.

Cumulative Impacts

Air Quality
CalEEMod does not calculate ozone emissions directly and therefore emissions of ozone precursors (CO, NOx, and ROG) were evaluated to determine Alternative B-related impacts to ozone. Ozone precursors are the primary pollutants involved in the chemical reaction process that forms ozone. Alternative B will not exceed thresholds for CO, NOx, or ROG during construction or operation. Therefore, Alternative B will result in incremental, but not cumulatively considerable impact on regional ozone levels, and in lower impacts than the proposed Project, whose impacts associated with NOx will be significant and unavoidable.

Similar to ozone, PM_{10} is regulated through the SCAQMD 2016 Air Quality Management Plan and 2003 PM_{10} Coachella Valley State Implementation Plan (CVSIP). Additional PM_{10} reduction measures include applicable state code and AQMD Rules, such as Rule 403 (Fugitive Dust), which enforces fugitive dust compliance for all activities within the SSAB. As shown in Section 3.3.2.1.b, Alternative B will not exceed local daily thresholds for PM_{10} during construction or operation. Therefore, cumulative impacts to PM_{10} are considered less than significant.

Greenhouse Gas
Cumulative impacts were analyzed on a regional scale due to the dispersing nature of pollutant emissions and aggregate impacts from surrounding jurisdictions and air management districts. Through analysis of the regional and statewide plans for GHG reductions, a summary of projects approach was used. The geographic scope for the analysis of potential cumulative greenhouse gas impacts is the overall Salton Sea Air Basin region in which the projects are being constructed and operated. However, some percentage of vehicular GHG emissions associated with the construction and operation of Alternative B may also come from sources outside of the SSAB.

Operation of Alternative B would exceed established SCAQMD thresholds and potential impacts would be mitigated through adherence to the City's Environmental Sustainability Plan. Therefore, Alternative B will not make a cumulatively considerable contribution to GHG levels.

Conclusion

Development of Alternative B would not violate State or Federal air quality standards or substantially contribute to an existing air quality violation in the Salton Sea Air Basin, nor will it conflict with or obstruct implementation of the SCAQMD Air Quality Management Plan or applicable GHG reduction plans. Alternative B

will not create objectionable odors affecting a substantial number of people. The project is not of local air quality concern and will not result in a CO or PM_{10} hotspots.

Alternative B will adhere to all regulatory requirements to assure that air pollutant emissions generated by the subject undertaking are minimized. Furthermore, the recommendations set forth in Section V are designed to limit air pollutant emissions resulting from Alternative B. As such, Alternative B would have a less than significant impact to air quality.

C. Alternative C: Residential Alternative

Alternative C assumes the maximum density in the PR-5 zone allowed for the Project site is 5 dwelling units per acre. At buildout, Alternative C would include approximately 89 dwelling units and 178 parking spaces.

Construction Emissions

For analysis purposes, construction of Alternative C is assumed to occur over a two-year period starting in mid-2019 with buildout in mid-2021. Construction-related criteria pollutant emissions will be temporary and will end once construction is complete. It was also assumed that construction would require the export of approximately 1,000 cubic yards of surplus earthen material to the Classic Club, approximately 2.5 miles northeast of the subject property[26]. Therefore, it is assumed that each haul round trip would be approximately 5 miles. This represents a worse-case hauling distance, since the City may also allow the off-loading of Project-related soil export within vacant areas of the Desert Willow project, which are much closer than the 5 miles associated with the Classic Club location.

The following table describes pollutant emissions during construction of Alternative C. Data represent maximum daily emissions expected over the 2-year buildout period.

[26] CalEEMod assumes the average haul load is 20 tons (or 16 cy) per trip.

Table 23
Construction Emissions Summary: Alternative C
(lbs./day)

	CO	NO_x	ROG	SO_x	PM_{10}	$PM_{2.5}$
Max. Daily Emissions	44.88	55.17	22.68	0.08	9.58	6.11
SCAQMD Threshold*	**550.00**	**100.00**	**75.00**	**150.00**	**150.00**	**55.00**
Exceeds Threshold	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod Version 2016.3.2. See Appendix A for detailed tables. Value shown represents the average unmitigated emissions of summer and winter outputs.
* Source: "SCAQMD Air Quality Significance Thresholds" prepared by SCAQMD.
Note: PM_{10} and $PM_{2.5}$ emissions are shown as "mitigated" in the CalEEMod output tables; however, the mitigation used is standard dust control requirements, such as watering exposed onsite soil 3 times per day.

As shown in the table above, SCAQMD daily thresholds for CO, NO_x, ROG, SOx, PM_{10} and $PM_{2.5}$ will not be exceeded during construction of Alternative C. Impacts will be less than significant, and lower than those of the proposed Project, which are also less than significant.

Sensitive Receptors

Similar to the proposed Project, maximum area of disturbance associated with buildout of Alternative C is approximately 17.69 acres, and it is assumed that buildout would occur over the course of two years. Although the total project area is greater than five acres, the area of daily disturbance (for purposes of LST analysis only) is limited to five acres or less per day at any given location. As such, the five-acre look up table is appropriate under the SCAQMD's methodology to screen for potential localized air quality impacts.[27]

The Mass Rate Look-Up tables for LSTs were used to determine if Alternative C would have the potential to generate significant adverse localized air quality impacts during construction. The LST for Source Receptor Area (SRA) 30 (Coachella Valley) was used to determine LST emission thresholds. The distance from the emission source and the maximum daily site disturbance also determines emission thresholds. For analysis purposes, the worst-case scenario of a sensitive receptor being within 25 meters was used.

The following table shows that LST thresholds are not expected to be exceeded for any criteria pollutant during constructionTherefore, impacts to sensitive receptors will be less than significant, as will those of the proposed Project.

[27] South Coast AQMD, "Fact Sheet for Applying CalEEMod to Localized Significance Thresholds."

Table 24
Localized Significance Thresholds: Alternative C
(lbs per day)

	CO	NO_x	PM_{10}	$PM_{2.5}$
Construction	44.88	55.17	9.58	6.11
LST Threshold*	**2,292.00**	**304.00**	**14.00**	**8.00**
Exceed?	**No**	**No**	**No**	**No**
Source of Emission Data: CalEEMod Version 2016.3.2, see Appendix A. Source of LST Threshold: LST Mass Rate Look-up Table, 25 meters, 5 acres, SCAQMD.				

Potential Odors
Alternative C is not expected to generate significant objectionable odors during any phase of construction. The project has the potential to result in short-term odors associated with paving and other construction activities. However, construction-related odors would be quickly dispersed below detectable thresholds and as distance from the construction site increases. Therefore, impacts from objectionable odors are expected to be less than significant.

Operational Emissions

Operational emissions are those released over the long-term life of the project. They include emissions generated by area, energy, and mobile sources. Area sources include consumable products, such as building maintenance and cleaning supplies, kitchen and restroom supplies, pavement off-gassing, and periodic reapplication of architectural coatings. Energy sources include the direct and indirect use of fossil fuels for energy, including natural gas and electricity use in buildings, parking lot lighting, ventilation equipment, and elevators. Mobile emissions are generated by motor vehicle trips.

The following table describes maximum daily pollutant emissions during operation of Alternative C. Per the traffic impact analysis, Alternative C would generate 840 weekday daily trips. As shown in the table, Alternative C operational emissions will not exceed SCAQMD thresholds for any criteria pollutant. Therefore, impacts are expected to be less than significant, and substantially lower than those generated by the proposed Project, whose impacts for NOx will be significant and unavoidable.

Table 25
Operational Emissions Summary: Alternative C
(lbs./day)

	CO	NO_x	ROG	SO_x	PM_{10}	$PM_{2.5}$
Area	7.68	0.84	4.33	0.00	0.10	0.10
Energy	0.29	0.69	0.08	0.00	0.06	0.06
Mobile	19.83	16.49	1.96	0.07	4.09	1.13
TOTAL:	**27.80**	**18.02**	**6.37**	**0.07**	**4.25**	**1.29**
SCAQMD Threshold*	**550.00**	**100.00**	**75.00**	**150.00**	**150.00**	**55.00**
Exceeds Threshold	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod Version 2016.3.2. See Appendix A for detailed tables. Value shown represents the average emissions of summer and winter outputs.
* Source: "SCAQMD Air Quality Significance Thresholds" prepared by SCAQMD.

Sensitive Receptors
Because the Alternative C land uses do not include major stationary polluters (such as a landfill, chemical plant, oil field, refineries etc), LST analysis was not conducted or required for operation.

Potential Odors
Residential land uses do no typically generate objectionable odors. Impacts associated with odors will be less than significant. Alternative C is not expected to result in other emissions adversely affecting a substantial number of people.

Greenhouse Gas Emissions

Construction GHG Emissions
Construction of Alternative C is anticipated to occur over a two-year period starting in mid-2019 with build out in mid-2021. During construction, fossil fuel use by construction equipment, machinery, haul trucks, and employees' commuter vehicles will generate short-term GHG emissions.

The California Emissions Estimator Model (CalEEMod), version 2016.3.2, was used to estimate Alternative C-related GHG emissions during construction. The results are summarized in the following table. GHG emissions will be temporary and will end once construction is complete. All components of construction, including equipment, fuels, and materials, will be subject to current regulations of GHGs and equipment efficiency standards, which are meant to reduce GHG emissions.

Table 26
Construction GHG Emissions Summary: Alternative C
(Metric Tons/Year)

	CO_2	CH_4	N_2O	Total CO_2e
Buildout	715.06	0.10	0.00	717.57
Source: CalEEMod Versions 2016.3.2. See Appendix A for detailed tables. CO_2e includes the remaining GHG pollutants, such as hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride.				

There are currently no construction-related GHG emission thresholds for projects of this nature. To determine if construction emissions will result in a significant impact, build out GHG emissions were amortized over a 30-year period and added to annual operational emissions to be compared to applicable GHG thresholds.[28] The results are shown in Table 27.

Operational GHG Emissions

Operational emissions will occur throughout the life of the project. At buildout, five emission source categories will contribute either directly or indirectly to operational GHG emissions: energy/electricity usage, water usage, solid waste disposal, area emissions (pavement and architectural coating off-gassing), and mobile sources.

CalEEMod was used to estimate annual operational GHG emissions generated by Alternative C. The results are summarized in the following table.

Table 27
Operational GHG Emission Summary: Alternative C
(Metric Tons/Year)

	CO_2	CH_4	N_2O	CO_2e
Operation	1,631.55	1.70	0.00	1,677.02
Buildout plus Amortized Construction Emissions				1,700.87
Source: CalEEMod Version 2016.3.2. See Appendix A for detailed tables. 1. Buildout construction GHG emissions were amortized over 30 years then added to buildout operational GHG emissions. 715.57/30 = 23.85				

On December 5, 2008, the SCAQMD formally adopted a greenhouse gas significance threshold of 10,000 MTCO2e/yr that only applies to stationary sources (industrial uses) where SCAQMD is the lead agency (SCAQMD Resolution No. 08-35). This threshold was adopted based upon an October 2008 staff report and

28 "Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans," SCAQMD, December 5, 2008.

draft interim guidance document[29] that also recommended a threshold for all projects using a tiered approach. It was recommended by SCAQMD staff that a project's greenhouse gas emissions would be considered significant if it could not comply with at least one of the following "tiered" tests:

Tier 1: Is there an applicable exemption?
Tier 2: Is the project compliant with a greenhouse gas reduction plan that is, at a minimum, consistent with the goals of AB 32?
Tier 3: Is the project below an absolute threshold (10,000 MTCO2e/yr for industrial projects; 3,000 MTCO2e/yr for residential and commercial projects)?
Tier 4: Is the project below a (yet to be set) performance threshold?
Tier 5: Would the project achieve a screening level with off-site mitigation?

Alternative C would comply with Tiers 2 and 3 because it would be regulated by the City's Environmental Sustainability Plan, which is described in Section 2.8.3 and consistent with the goals of AB 32, and it is a residential project with emissions below 3,000 MTCO2e/yr. Therefore, Alternative C would comply with Tier 2. Mitigation Measure are not required, and impacts are considered less than significant.

Cumulative Impacts

Air Quality
CalEEMod does not calculate ozone emissions directly and therefore emissions of ozone precursors (CO, NOx, and ROG) were evaluated to determine Alternative B-related impacts to ozone. Ozone precursors are the primary pollutants involved in the chemical reaction process that forms ozone. Alternative C will not exceed thresholds for CO, NOx, or ROG during construction or operation. Therefore, Alternative C will result in incremental, but not cumulatively considerable impact on regional ozone levels, and in lower impacts than the proposed Project, whose impacts associated with NOx will be significant and unavoidable.

Similar to ozone, PM_{10} is regulated through the SCAQMD 2016 Air Quality Management Plan and 2003 PM_{10} Coachella Valley State Implementation Plan (CVSIP). Additional PM_{10} reduction measures include applicable state code and AQMD Rules, such as Rule 403 (Fugitive Dust), which enforces fugitive dust compliance for all activities within the SSAB. As shown in Section 3.3.2.1.b, Alternative C will not exceed local daily thresholds for PM_{10} during construction or

[29] Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold, prepared by SCAQMD, October 2008.

operation. Therefore, cumulative impacts to PM_{10} are considered less than significant.

Greenhouse Gas

Cumulative impacts were analyzed on a regional scale due to the dispersing nature of pollutant emissions and aggregate impacts from surrounding jurisdictions and air management districts. Through analysis of the regional and statewide plans for GHG reductions, a summary of projects approach was used. The geographic scope for the analysis of potential cumulative greenhouse gas impacts is the overall Salton Sea Air Basin region in which the projects are being constructed and operated.

Operation of Alternative C would not exceed established SCAQMD thresholds and therefore will not make a cumulatively considerable contribution to GHG levels.

Conclusion

Development of Alternative C would not violate State or Federal air quality standards or substantially contribute to an existing air quality violation in the Salton Sea Air Basin, nor will it conflict with or obstruct implementation of the SCAQMD Air Quality Management Plan or applicable GHG reduction plans. Alternative C will not create objectionable odors affecting a substantial number of people. The project is not of local air quality concern and will not result in a CO or PM_{10} hotspots.

Alternative C will adhere to all regulatory requirements to assure that air pollutant emissions generated by the subject undertaking are minimized. As such, Alternative C would have a less than significant impact to air quality.

SECTION V. AIR QUALITY RECOMMENDATIONS

The following are recommended mitigation strategies to improve operational air emissions.

AQ-1 Electric Vehicle Charging Stations
At least 5% of all vehicle parking spaces shall include EV charging stations.

AQ-2 Delivery Vehicle Idling Time
Delivery vehicle idling time shall be limited to no more than five minutes. For any delivery that is expected to take longer than five minutes, the vehicle's operator shall be required to shut off the engine. The Project proponent shall notify vendors of these idling requirements at the time the delivery purchase order is issued and again when vehicles enter the facility. Signs shall be posted at entry to the facility's delivery area stating that idling longer than five minutes is not permitted.

AQ-3 Employee Commute
Any employer than employs 250 or more employees at a work site, on a full or part-time basis, shall implement an Employee Commute Reduction Program (ECRP) under SCAQMD Rule 2202, On-Road Motor Vehicle Mitigation Option.

AQ-4 Paving and Roofing Materials
Light-colored paving and roofing materials shall be utilized onsite, to the greatest extent practical.

AQ-5 Energy Star
Energy Star heating, cooling, and lighting devices, and appliances shall be installed onsite to the greatest extent practical.

AQ-6 Sweepers
Electric or alternatively fueled sweepers with HEPA filters shall be used onsite to the greatest extent practical.

AQ-7 Lawn Maintenance
Electric lawn mowers and leaf blowers shall be used onsite to the greatest extent practical.

AQ-8 Cleaning Products
Water-based or low VOC cleaning products shall be used to the greatest extent practical.

AQ-9 Dust Control Plan: SCAQMD Rule 403.1

SCAQMD Rule 403 (403.1 specific to the Coachella Valley): A Dust Control Plan shall be prepared and implemented by all contractors during all construction activities, including ground disturbance, grubbing, grading, and materials import and export. Said plan shall include but not be limited to the following best management practices:

- Treated and stabilized soil where activity will cease for at least four consecutive days;
- All construction grading operations and earth moving operations shall cease when winds exceed 25 miles per hour;
- Water site and equipment morning and evening and during all earth-moving operations;
- Operate street-sweepers on impacted paved roads adjacent to site;
- Establish and strictly enforce limits of grading for each phase of construction;
- Wash off trucks as they leave the project site to control fugitive dust emissions
- Cover all transported loads of soils, wet materials prior to transport, provide freeboard (space from the top of the material to the top of the truck) to reduce PM_{10} and deposition of particulate matter during transportation
- Use track-out reduction measures such as gravel pads at project access points to minimize dust and mud deposits on roads affected by construction traffic.

GHG-1 The project shall implement the policies of the Palm Desert Environmental Sustainability Plan applicable to its development.

DOCUMENTS REFERENCED

1. "Final 2016 Air Quality Management Plan," prepared by South Coast Air Quality Management District, 2016.
2. "CEQA Air Quality Handbook," prepared by South Coast Air Quality Management District, April 1993.
3. "Final Localized Significance Threshold Methodology, prepared by the South Coast Air Quality Management District, Revised, July 2008.
4. "South Coast Air Quality Management District Rules and Regulations," adopted February 4, 1977.
5. "Annual Air Quality Site Monitoring Reports," prepared by the South Coast Air Quality Management District.
6. "The California Almanac of Emissions and Air Quality, 2006 Edition," California Air Resources Board, Planning and Technical Support Division, March 2006.
7. "Climate Change 2007: The Physical Science Basis," Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change, edited by S. Solomon, D. Qin, and M. Manning, April 2007.
8. "Working Group III Contribution to the Intergovernmental Panel on Climate Change Fourth Assessment Report, Climate Change 2007: Mitigation of Climate Change," prepared by the Intergovernmental Panel on Climate Change, May 2007.
9. "2003 Coachella Valley PM10 State Implementation Plan," August 1, 2003.

APPENDIX A

DSRT SURF Air Emission Outputs

CalEEMod, Version 2016.3.2

Prepared by
Terra Nova Planning & Research, Inc.

January 2019

DSRT SURF Proposed Project SP Buildout

Salton Sea Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	520.00	Space	3.51	208,000.00	0
Other Asphalt Surfaces	1.50	Acre	1.00	65,340.00	0
High Turnover (Sit Down Restaurant)	11.25	1000sqft	0.26	11,250.00	0
Hotel	438.00	Room	6.00	500,000.00	0
Recreational Swimming Pool	261.36	1000sqft	6.00	261,360.00	0
Regional Shopping Center	45.00	1000sqft	1.03	45,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	20
Climate Zone	15			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Annual

Project Characteristics -

Land Use - Assumptions made due to SP level information. See AQ/GHG report for assumption breakdown.

Construction Phase - Assumes a 2-year buildout

Off-road Equipment - Number of equipment increased.

Off-road Equipment - Added material handling equipment for export.

Trips and VMT - Worse case scenario haul trip is 2.5 miles north to the Classic Club.

On-road Fugitive Dust - All roads in project area are paced.

Grading - Excavation for the lagoon will require approx. 103,000 CY of export.

Architectural Coating - Use of low VOC coatings per SCAQMD Rule 1113

Vehicle Trips - Per Traffic Report, total project daily trips = 5496. Assumes some visitors may be coming from greater distances, 25 miles average per trip assumed.

Road Dust - All roads paved.

Construction Off-road Equipment Mitigation - Standard requirements per SCAQMD Rule 403.1 Dust Control.

Energy Use - All electricity will be Title 24 approved. Lagoon wave machine and lighting assumptions accounted for in "Regional Shopping Center."

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	125.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	125.00
tblArchitecturalCoating	EF_Parking	150.00	125.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstructionPhase	NumDays	20.00	110.00
tblConstructionPhase	NumDays	300.00	350.00
tblConstructionPhase	NumDays	30.00	90.00
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	10.00	20.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	28.48	0.00

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Annual

tblEnergyUse	NT24E	6.23	0.00
tblEnergyUse	NT24E	2.44	0.00
tblEnergyUse	T24E	3.92	4.00
tblEnergyUse	T24E	12.38	41.00
tblEnergyUse	T24E	6.47	13.00
tblEnergyUse	T24E	4.58	233.50
tblGrading	AcresOfGrading	225.00	17.80
tblGrading	MaterialExported	0.00	103,000.00
tblLandUse	LandUseSquareFeet	635,976.00	500,000.00
tblLandUse	LotAcreage	4.68	3.51
tblLandUse	LotAcreage	1.50	1.00
tblLandUse	LotAcreage	14.60	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00

tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblRoadDust	RoadPercentPave	50	100
tblTripsAndVMT	HaulingTripLength	20.00	2.50
tblTripsAndVMT	WorkerTripNumber	28.00	20.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	ST_TR	158.37	56.17
tblVehicleTrips	ST_TR	8.19	8.36
tblVehicleTrips	ST_TR	9.10	4.30
tblVehicleTrips	ST_TR	49.97	1.68
tblVehicleTrips	SU_TR	131.84	56.17
tblVehicleTrips	SU_TR	5.95	8.36
tblVehicleTrips	SU_TR	13.60	4.30
tblVehicleTrips	SU_TR	25.24	1.68
tblVehicleTrips	WD_TR	127.15	56.17
tblVehicleTrips	WD_TR	8.17	8.36
tblVehicleTrips	WD_TR	33.82	4.30
tblVehicleTrips	WD_TR	42.70	1.68

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.5037	5.6838	3.7175	8.6500e-003	0.5945	0.2138	0.8084	0.2841	0.1979	0.4821	0.0000	787.5389	787.5389	0.1780	0.0000	791.9879
2020	0.8112	6.3935	6.0405	0.0156	0.6090	0.2273	0.8364	0.1644	0.2155	0.3798	0.0000	1,404.6866	1,404.6866	0.1674	0.0000	1,408.8710
2021	3.4340	1.1112	1.2679	3.2200e-003	0.1482	0.0382	0.1864	0.0398	0.0365	0.0763	0.0000	289.6175	289.6175	0.0300	0.0000	290.3671
Maximum	**3.4340**	**6.3935**	**6.0405**	**0.0156**	**0.6090**	**0.2273**	**0.8364**	**0.2841**	**0.2155**	**0.4821**	**0.0000**	**1,404.6866**	**1,404.6866**	**0.1780**	**0.0000**	**1,408.8710**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.5037	5.6838	3.7175	8.6500e-003	0.3070	0.2138	0.5208	0.1311	0.1979	0.3291	0.0000	787.5383	787.5383	0.1780	0.0000	791.9874
2020	0.8112	6.3935	6.0405	0.0156	0.6090	0.2273	0.8364	0.1644	0.2155	0.3798	0.0000	1,404.6861	1,404.6861	0.1674	0.0000	1,408.8704
2021	3.4340	1.1112	1.2679	3.2200e-003	0.1482	0.0382	0.1864	0.0398	0.0365	0.0763	0.0000	289.6174	289.6174	0.0300	0.0000	290.3670
Maximum	**3.4340**	**6.3935**	**6.0405**	**0.0156**	**0.6090**	**0.2273**	**0.8364**	**0.1644**	**0.2155**	**0.3798**	**0.0000**	**1,404.6861**	**1,404.6861**	**0.1780**	**0.0000**	**1,408.8704**

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Annual

	ROG	NOx	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**	**21.27**	**0.00**	**15.70**	**31.34**	**0.00**	**16.31**	**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	**6-3-2019**	**9-2-2019**	2.6036	2.6036
2	**9-3-2019**	**12-2-2019**	2.7867	2.7867
3	**12-3-2019**	**3-2-2020**	2.0759	2.0759
4	**3-3-2020**	**6-2-2020**	1.7881	1.7881
5	**6-3-2020**	**9-2-2020**	1.7930	1.7930
6	**9-3-2020**	**12-2-2020**	1.7629	1.7629
7	**12-3-2020**	**3-2-2021**	2.9838	2.9838
8	**3-3-2021**	**6-2-2021**	2.0899	2.0899
9	**6-3-2021**	**9-2-2021**	0.0222	0.0222
		Highest	2.9838	2.9838

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	2.5836	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Energy	0.1789	1.6265	1.3663	9.7600e-003		0.1236	0.1236		0.1236	0.1236	0.0000	8,688.4747	8,688.4747	0.3195	0.0916	8,723.7455
Mobile	2.1852	19.7303	22.0144	0.0821	4.7277	0.0578	4.7855	1.2701	0.0544	1.3245	0.0000	7,636.5789	7,636.5789	0.5791	0.0000	7,651.0568
Waste						0.0000	0.0000		0.0000	0.0000	387.8528	0.0000	387.8528	22.9214	0.0000	960.8889
Water						0.0000	0.0000		0.0000	0.0000	10.5697	184.1322	194.7019	1.0932	0.0272	230.1398
Total	**4.9478**	**21.3569**	**23.3925**	**0.0919**	**4.7277**	**0.1814**	**4.9092**	**1.2701**	**0.1781**	**1.4482**	**398.4225**	**16,509.2086**	**16,907.6311**	**24.9134**	**0.1188**	**17,565.8554**

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	2.5836	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Energy	0.1789	1.6265	1.3663	9.7600e-003		0.1236	0.1236		0.1236	0.1236	0.0000	8,688.4747	8,688.4747	0.3195	0.0916	8,723.7455
Mobile	2.1852	19.7303	22.0144	0.0821	4.7277	0.0578	4.7855	1.2701	0.0544	1.3245	0.0000	7,636.5789	7,636.5789	0.5791	0.0000	7,651.0568
Waste						0.0000	0.0000		0.0000	0.0000	387.8528	0.0000	387.8528	22.9214	0.0000	960.8889
Water						0.0000	0.0000		0.0000	0.0000	10.5697	184.1322	194.7019	1.0932	0.0272	230.1398
Total	**4.9478**	**21.3569**	**23.3925**	**0.0919**	**4.7277**	**0.1814**	**4.9092**	**1.2701**	**0.1781**	**1.4482**	**398.4225**	**16,509.2086**	**16,907.6311**	**24.9134**	**0.1188**	**17,565.8554**

	ROG	NOx	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

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	6/28/2019	5	20	
2	Grading	Grading	6/29/2019	11/1/2019	5	90	
3	Paving	Paving	11/1/2019	1/16/2020	5	55	
4	Building Construction	Building Construction	11/2/2019	3/5/2021	5	350	
5	Architectural Coating	Architectural Coating	1/1/2021	6/3/2021	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 17.8

Acres of Paving: 4.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 834,375; Non-Residential Outdoor: 278,125; Striped Parking Area: 16,400 (Architectural Coating – sqft)

OffRoad Equipment

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Other Material Handling Equipment	3	8.00	168	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	20.00	0.00	12,875.00	11.00	5.40	2.50	LD_Mix	HDT_Mix	HHDT
Building Construction	12	454.00	179.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	91.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0434	0.4557	0.2206	3.8000e-004		0.0239	0.0239		0.0220	0.0220	0.0000	34.1687	34.1687	0.0108	0.0000	34.4390
Total	**0.0434**	**0.4557**	**0.2206**	**3.8000e-004**	**0.1807**	**0.0239**	**0.2046**	**0.0993**	**0.0220**	**0.1213**	**0.0000**	**34.1687**	**34.1687**	**0.0108**	**0.0000**	**34.4390**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	9.9000e-004	7.5000e-004	7.3800e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.5000e-003	4.0000e-004	1.0000e-005	4.0000e-004	0.0000	1.3127	1.3127	6.0000e-005	0.0000	1.3142
Total	**9.9000e-004**	**7.5000e-004**	**7.3800e-003**	**1.0000e-005**	**1.4900e-003**	**1.0000e-005**	**1.5000e-003**	**4.0000e-004**	**1.0000e-005**	**4.0000e-004**	**0.0000**	**1.3127**	**1.3127**	**6.0000e-005**	**0.0000**	**1.3142**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0705	0.0000	0.0705	0.0387	0.0000	0.0387	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0434	0.4557	0.2206	3.8000e-004		0.0239	0.0239		0.0220	0.0220	0.0000	34.1687	34.1687	0.0108	0.0000	34.4389
Total	**0.0434**	**0.4557**	**0.2206**	**3.8000e-004**	**0.0705**	**0.0239**	**0.0944**	**0.0387**	**0.0220**	**0.0607**	**0.0000**	**34.1687**	**34.1687**	**0.0108**	**0.0000**	**34.4389**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	9.9000e-004	7.5000e-004	7.3800e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.5000e-003	4.0000e-004	1.0000e-005	4.0000e-004	0.0000	1.3127	1.3127	6.0000e-005	0.0000	1.3142
Total	**9.9000e-004**	**7.5000e-004**	**7.3800e-003**	**1.0000e-005**	**1.4900e-003**	**1.0000e-005**	**1.5000e-003**	**4.0000e-004**	**1.0000e-005**	**4.0000e-004**	**0.0000**	**1.3127**	**1.3127**	**6.0000e-005**	**0.0000**	**1.3142**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2907	0.0000	0.2907	0.1515	0.0000	0.1515	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2580	2.8972	2.0116	3.5700e-003		0.1294	0.1294		0.1191	0.1191	0.0000	320.7227	320.7227	0.1015	0.0000	323.2595
Total	**0.2580**	**2.8972**	**2.0116**	**3.5700e-003**	**0.2907**	**0.1294**	**0.4201**	**0.1515**	**0.1191**	**0.2706**	**0.0000**	**320.7227**	**320.7227**	**0.1015**	**0.0000**	**323.2595**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0203	0.8907	0.1030	1.5900e-003	0.0141	1.1300e-003	0.0152	3.8800e-003	1.0800e-003	4.9600e-003	0.0000	151.4110	151.4110	0.0239	0.0000	152.0079
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9300e-003	3.7500e-003	0.0369	7.0000e-005	7.4400e-003	5.0000e-005	7.4900e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.5636	6.5636	3.0000e-004	0.0000	6.5711
Total	**0.0252**	**0.8944**	**0.1399**	**1.6600e-003**	**0.0215**	**1.1800e-003**	**0.0227**	**5.8600e-003**	**1.1200e-003**	**6.9800e-003**	**0.0000**	**157.9745**	**157.9745**	**0.0242**	**0.0000**	**158.5790**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1134	0.0000	0.1134	0.0591	0.0000	0.0591	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2580	2.8972	2.0116	3.5700e-003		0.1294	0.1294		0.1191	0.1191	0.0000	320.7223	320.7223	0.1015	0.0000	323.2592
Total	**0.2580**	**2.8972**	**2.0116**	**3.5700e-003**	**0.1134**	**0.1294**	**0.2428**	**0.0591**	**0.1191**	**0.1782**	**0.0000**	**320.7223**	**320.7223**	**0.1015**	**0.0000**	**323.2592**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0203	0.8907	0.1030	1.5900e-003	0.0141	1.1300e-003	0.0152	3.8800e-003	1.0800e-003	4.9600e-003	0.0000	151.4110	151.4110	0.0239	0.0000	152.0079
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9300e-003	3.7500e-003	0.0369	7.0000e-005	7.4400e-003	5.0000e-005	7.4900e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.5636	6.5636	3.0000e-004	0.0000	6.5711
Total	**0.0252**	**0.8944**	**0.1399**	**1.6600e-003**	**0.0215**	**1.1800e-003**	**0.0227**	**5.8600e-003**	**1.1200e-003**	**6.9800e-003**	**0.0000**	**157.9745**	**157.9745**	**0.0242**	**0.0000**	**158.5790**

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0313	0.3278	0.3153	4.9000e-004		0.0177	0.0177		0.0163	0.0163	0.0000	44.0216	44.0216	0.0139	0.0000	44.3698
Paving	1.0200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0323**	**0.3278**	**0.3153**	**4.9000e-004**		**0.0177**	**0.0177**		**0.0163**	**0.0163**	**0.0000**	**44.0216**	**44.0216**	**0.0139**	**0.0000**	**44.3698**

3.4 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	1.7700e-003	1.3400e-003	0.0132	3.0000e-005	2.6700e-003	2.0000e-005	2.6800e-003	7.1000e-004	2.0000e-005	7.2000e-004	0.0000	2.3519	2.3519	1.1000e-004	0.0000	2.3547
Total	**1.7700e-003**	**1.3400e-003**	**0.0132**	**3.0000e-005**	**2.6700e-003**	**2.0000e-005**	**2.6800e-003**	**7.1000e-004**	**2.0000e-005**	**7.2000e-004**	**0.0000**	**2.3519**	**2.3519**	**1.1000e-004**	**0.0000**	**2.3547**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0313	0.3278	0.3153	4.9000e-004		0.0177	0.0177		0.0163	0.0163	0.0000	44.0216	44.0216	0.0139	0.0000	44.3698
Paving	1.0200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0323**	**0.3278**	**0.3153**	**4.9000e-004**		**0.0177**	**0.0177**		**0.0163**	**0.0163**	**0.0000**	**44.0216**	**44.0216**	**0.0139**	**0.0000**	**44.3698**

3.4 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	1.7700e-003	1.3400e-003	0.0132	3.0000e-005	2.6700e-003	2.0000e-005	2.6800e-003	7.1000e-004	2.0000e-005	7.2000e-004	0.0000	2.3519	2.3519	1.1000e-004	0.0000	2.3547
Total	**1.7700e-003**	**1.3400e-003**	**0.0132**	**3.0000e-005**	**2.6700e-003**	**2.0000e-005**	**2.6800e-003**	**7.1000e-004**	**2.0000e-005**	**7.2000e-004**	**0.0000**	**2.3519**	**2.3519**	**1.1000e-004**	**0.0000**	**2.3547**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.1400e-003	0.0844	0.0879	1.4000e-004		4.5200e-003	4.5200e-003		4.1600e-003	4.1600e-003	0.0000	12.0169	12.0169	3.8900e-003	0.0000	12.1141
Paving	2.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.4300e-003**	**0.0844**	**0.0879**	**1.4000e-004**		**4.5200e-003**	**4.5200e-003**		**4.1600e-003**	**4.1600e-003**	**0.0000**	**12.0169**	**12.0169**	**3.8900e-003**	**0.0000**	**12.1141**

3.4 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	4.6000e-004	3.4000e-004	3.3700e-003	1.0000e-005	7.4000e-004	0.0000	7.5000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.6355	0.6355	3.0000e-005	0.0000	0.6362
Total	**4.6000e-004**	**3.4000e-004**	**3.3700e-003**	**1.0000e-005**	**7.4000e-004**	**0.0000**	**7.5000e-004**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**0.6355**	**0.6355**	**3.0000e-005**	**0.0000**	**0.6362**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.1400e-003	0.0844	0.0879	1.4000e-004		4.5200e-003	4.5200e-003		4.1600e-003	4.1600e-003	0.0000	12.0169	12.0169	3.8900e-003	0.0000	12.1141
Paving	2.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.4300e-003**	**0.0844**	**0.0879**	**1.4000e-004**		**4.5200e-003**	**4.5200e-003**		**4.1600e-003**	**4.1600e-003**	**0.0000**	**12.0169**	**12.0169**	**3.8900e-003**	**0.0000**	**12.1141**

3.4 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	4.6000e-004	3.4000e-004	3.3700e-003	1.0000e-005	7.4000e-004	0.0000	7.5000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.6355	0.6355	3.0000e-005	0.0000	0.6362
Total	**4.6000e-004**	**3.4000e-004**	**3.3700e-003**	**1.0000e-005**	**7.4000e-004**	**0.0000**	**7.5000e-004**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**0.6355**	**0.6355**	**3.0000e-005**	**0.0000**	**0.6362**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0763	0.6665	0.5187	8.6000e-004		0.0386	0.0386		0.0366	0.0366	0.0000	74.7157	74.7157	0.0165	0.0000	75.1270
Total	**0.0763**	**0.6665**	**0.5187**	**8.6000e-004**		**0.0386**	**0.0386**		**0.0366**	**0.0366**	**0.0000**	**74.7157**	**74.7157**	**0.0165**	**0.0000**	**75.1270**

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0136	0.4004	0.0998	8.7000e-004	0.0187	2.4400e-003	0.0211	5.3900e-003	2.3300e-003	7.7300e-003	0.0000	82.7411	82.7411	7.7400e-003	0.0000	82.9347
Worker	0.0523	0.0397	0.3910	7.7000e-004	0.0788	5.2000e-004	0.0793	0.0209	4.8000e-004	0.0214	0.0000	69.5299	69.5299	3.2100e-003	0.0000	69.6101
Total	**0.0658**	**0.4402**	**0.4908**	**1.6400e-003**	**0.0975**	**2.9600e-003**	**0.1005**	**0.0263**	**2.8100e-003**	**0.0291**	**0.0000**	**152.2710**	**152.2710**	**0.0110**	**0.0000**	**152.5448**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0763	0.6665	0.5187	8.6000e-004		0.0386	0.0386		0.0366	0.0366	0.0000	74.7156	74.7156	0.0165	0.0000	75.1269
Total	**0.0763**	**0.6665**	**0.5187**	**8.6000e-004**		**0.0386**	**0.0386**		**0.0366**	**0.0366**	**0.0000**	**74.7156**	**74.7156**	**0.0165**	**0.0000**	**75.1269**

3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0136	0.4004	0.0998	8.7000e-004	0.0187	2.4400e-003	0.0211	5.3900e-003	2.3300e-003	7.7300e-003	0.0000	82.7411	82.7411	7.7400e-003	0.0000	82.9347
Worker	0.0523	0.0397	0.3910	7.7000e-004	0.0788	5.2000e-004	0.0793	0.0209	4.8000e-004	0.0214	0.0000	69.5299	69.5299	3.2100e-003	0.0000	69.6101
Total	**0.0658**	**0.4402**	**0.4908**	**1.6400e-003**	**0.0975**	**2.9600e-003**	**0.1005**	**0.0263**	**2.8100e-003**	**0.0291**	**0.0000**	**152.2710**	**152.2710**	**0.0110**	**0.0000**	**152.5448**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4268	3.7929	3.1665	5.3800e-003		0.2089	0.2089		0.1981	0.1981	0.0000	460.2145	460.2145	0.1006	0.0000	462.7302
Total	**0.4268**	**3.7929**	**3.1665**	**5.3800e-003**		**0.2089**	**0.2089**		**0.1981**	**0.1981**	**0.0000**	**460.2145**	**460.2145**	**0.1006**	**0.0000**	**462.7302**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0739	2.2921	0.5586	5.3900e-003	0.1166	0.0107	0.1274	0.0337	0.0103	0.0439	0.0000	511.8764	511.8764	0.0448	0.0000	512.9954
Worker	0.3017	0.2237	2.2241	4.6600e-003	0.4917	3.1400e-003	0.4948	0.1305	2.9000e-003	0.1334	0.0000	419.9433	419.9433	0.0181	0.0000	420.3951
Total	**0.3756**	**2.5159**	**2.7827**	**0.0101**	**0.6083**	**0.0139**	**0.6222**	**0.1642**	**0.0132**	**0.1774**	**0.0000**	**931.8197**	**931.8197**	**0.0628**	**0.0000**	**933.3905**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4268	3.7929	3.1665	5.3800e-003		0.2089	0.2089		0.1981	0.1981	0.0000	460.2139	460.2139	0.1006	0.0000	462.7296
Total	**0.4268**	**3.7929**	**3.1665**	**5.3800e-003**		**0.2089**	**0.2089**		**0.1981**	**0.1981**	**0.0000**	**460.2139**	**460.2139**	**0.1006**	**0.0000**	**462.7296**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0739	2.2921	0.5586	5.3900e-003	0.1166	0.0107	0.1274	0.0337	0.0103	0.0439	0.0000	511.8764	511.8764	0.0448	0.0000	512.9954
Worker	0.3017	0.2237	2.2241	4.6600e-003	0.4917	3.1400e-003	0.4948	0.1305	2.9000e-003	0.1334	0.0000	419.9433	419.9433	0.0181	0.0000	420.3951
Total	**0.3756**	**2.5159**	**2.7827**	**0.0101**	**0.6083**	**0.0139**	**0.6222**	**0.1642**	**0.0132**	**0.1774**	**0.0000**	**931.8197**	**931.8197**	**0.0628**	**0.0000**	**933.3905**

3.5 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	0.0672	0.6061	0.5454	9.5000e-004		0.0316	0.0316		0.0299	0.0299	0.0000	80.8064	80.8064	0.0174	0.0000	81.2409
Total	**0.0672**	**0.6061**	**0.5454**	**9.5000e-004**		**0.0316**	**0.0316**		**0.0299**	**0.0299**	**0.0000**	**80.8064**	**80.8064**	**0.0174**	**0.0000**	**81.2409**

3.5 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	0.0114	0.3684	0.0882	9.4000e-004	0.0205	6.6000e-004	0.0211	5.9100e-003	6.4000e-004	6.5400e-003	0.0000	89.3677	89.3677	7.3400e-003	0.0000	89.5513
Worker	0.0494	0.0357	0.3612	7.9000e-004	0.0863	5.4000e-004	0.0869	0.0229	5.0000e-004	0.0234	0.0000	71.2496	71.2496	2.9100e-003	0.0000	71.3223
Total	**0.0608**	**0.4040**	**0.4494**	**1.7300e-003**	**0.1068**	**1.2000e-003**	**0.1080**	**0.0288**	**1.1400e-003**	**0.0300**	**0.0000**	**160.6173**	**160.6173**	**0.0103**	**0.0000**	**160.8735**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0672	0.6061	0.5454	9.5000e-004		0.0316	0.0316		0.0299	0.0299	0.0000	80.8063	80.8063	0.0174	0.0000	81.2408
Total	**0.0672**	**0.6061**	**0.5454**	**9.5000e-004**		**0.0316**	**0.0316**		**0.0299**	**0.0299**	**0.0000**	**80.8063**	**80.8063**	**0.0174**	**0.0000**	**81.2408**

3.5 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	0.0114	0.3684	0.0882	9.4000e-004	0.0205	6.6000e-004	0.0211	5.9100e-003	6.4000e-004	6.5400e-003	0.0000	89.3677	89.3677	7.3400e-003	0.0000	89.5513
Worker	0.0494	0.0357	0.3612	7.9000e-004	0.0863	5.4000e-004	0.0869	0.0229	5.0000e-004	0.0234	0.0000	71.2496	71.2496	2.9100e-003	0.0000	71.3223
Total	**0.0608**	**0.4040**	**0.4494**	**1.7300e-003**	**0.1068**	**1.2000e-003**	**0.1080**	**0.0288**	**1.1400e-003**	**0.0300**	**0.0000**	**160.6173**	**160.6173**	**0.0103**	**0.0000**	**160.8735**

3.6 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	3.2703					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0840	0.1000	1.6000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	14.0429	14.0429	9.6000e-004	0.0000	14.0670
Total	**3.2823**	**0.0840**	**0.1000**	**1.6000e-004**		**5.1800e-003**	**5.1800e-003**		**5.1800e-003**	**5.1800e-003**	**0.0000**	**14.0429**	**14.0429**	**9.6000e-004**	**0.0000**	**14.0670**

3.6 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	0.0237	0.0171	0.1731	3.8000e-004	0.0414	2.6000e-004	0.0416	0.0110	2.4000e-004	0.0112	0.0000	34.1509	34.1509	1.3900e-003	0.0000	34.1858
Total	**0.0237**	**0.0171**	**0.1731**	**3.8000e-004**	**0.0414**	**2.6000e-004**	**0.0416**	**0.0110**	**2.4000e-004**	**0.0112**	**0.0000**	**34.1509**	**34.1509**	**1.3900e-003**	**0.0000**	**34.1858**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.2703					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0840	0.1000	1.6000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	14.0429	14.0429	9.6000e-004	0.0000	14.0670
Total	**3.2823**	**0.0840**	**0.1000**	**1.6000e-004**		**5.1800e-003**	**5.1800e-003**		**5.1800e-003**	**5.1800e-003**	**0.0000**	**14.0429**	**14.0429**	**9.6000e-004**	**0.0000**	**14.0670**

3.6 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	0.0237	0.0171	0.1731	3.8000e-004	0.0414	2.6000e-004	0.0416	0.0110	2.4000e-004	0.0112	0.0000	34.1509	34.1509	1.3900e-003	0.0000	34.1858
Total	**0.0237**	**0.0171**	**0.1731**	**3.8000e-004**	**0.0414**	**2.6000e-004**	**0.0416**	**0.0110**	**2.4000e-004**	**0.0112**	**0.0000**	**34.1509**	**34.1509**	**1.3900e-003**	**0.0000**	**34.1858**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.1852	19.7303	22.0144	0.0821	4.7277	0.0578	4.7855	1.2701	0.0544	1.3245	0.0000	7,636.5789	7,636.5789	0.5791	0.0000	7,651.0568
Unmitigated	2.1852	19.7303	22.0144	0.0821	4.7277	0.0578	4.7855	1.2701	0.0544	1.3245	0.0000	7,636.5789	7,636.5789	0.5791	0.0000	7,651.0568

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	631.91	631.91	631.91	505,822	505,822
Hotel	3,661.68	3,661.68	3661.68	8,788,137	8,788,137
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	1,123.85	1,123.85	1123.85	2,754,828	2,754,828
Regional Shopping Center	75.60	75.60	75.60	164,431	164,431
Total	5,493.04	5,493.04	5,493.04	12,213,217	12,213,217

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
Enclosed Parking with Elevator	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	12.50	4.20	5.40	8.50	72.50	19.00	37	20	43
Hotel	12.50	4.20	25.00	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	12.50	4.20	25.00	33.00	48.00	19.00	52	39	9
Regional Shopping Center	12.50	4.20	25.00	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
High Turnover (Sit Down Restaurant)	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Hotel	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Other Asphalt Surfaces	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Recreational Swimming Pool	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Regional Shopping Center	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,917.8048	6,917.8048	0.2856	0.0591	6,942.5535
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,917.8048	6,917.8048	0.2856	0.0591	6,942.5535
NaturalGas Mitigated	0.1789	1.6265	1.3663	9.7600e-003		0.1236	0.1236		0.1236	0.1236	0.0000	1,770.6699	1,770.6699	0.0339	0.0325	1,781.1921
NaturalGas Unmitigated	0.1789	1.6265	1.3663	9.7600e-003		0.1236	0.1236		0.1236	0.1236	0.0000	1,770.6699	1,770.6699	0.0339	0.0325	1,781.1921

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	3.0762e+006	0.0166	0.1508	0.1267	9.0000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	164.1578	164.1578	3.1500e-003	3.0100e-003	165.1333
Hotel	3.0005e+007	0.1618	1.4708	1.2355	8.8200e-003		0.1118	0.1118		0.1118	0.1118	0.0000	1,601.1811	1,601.1811	0.0307	0.0294	1,610.6961
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	99900	5.4000e-004	4.9000e-003	4.1100e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.3310	5.3310	1.0000e-004	1.0000e-004	5.3627
Total		**0.1789**	**1.6265**	**1.3663**	**9.7500e-003**		**0.1236**	**0.1236**		**0.1236**	**0.1236**	**0.0000**	**1,770.6699**	**1,770.6699**	**0.0339**	**0.0325**	**1,781.1921**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	3.0762e+006	0.0166	0.1508	0.1267	9.0000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	164.1578	164.1578	3.1500e-003	3.0100e-003	165.1333
Hotel	3.0005e+007	0.1618	1.4708	1.2355	8.8200e-003		0.1118	0.1118		0.1118	0.1118	0.0000	1,601.1811	1,601.1811	0.0307	0.0294	1,610.6961
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	99900	5.4000e-004	4.9000e-003	4.1100e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.3310	5.3310	1.0000e-004	1.0000e-004	5.3627
Total		**0.1789**	**1.6265**	**1.3663**	**9.7500e-003**		**0.1236**	**0.1236**		**0.1236**	**0.1236**	**0.0000**	**1,770.6699**	**1,770.6699**	**0.0339**	**0.0325**	**1,781.1921**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	1.196e+006	381.0712	0.0157	3.2500e-003	382.4345
High Turnover (Sit Down Restaurant)	535725	170.6935	7.0500e-003	1.4600e-003	171.3041
Hotel	9.22e+006	2,937.6895	0.1213	0.0251	2,948.1992
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.076e+007	3,428.3506	0.1415	0.0293	3,440.6156
Total		**6,917.8048**	**0.2856**	**0.0591**	**6,942.5535**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	1.196e+006	381.0712	0.0157	3.2500e-003	382.4345
High Turnover (Sit Down Restaurant)	535725	170.6935	7.0500e-003	1.4600e-003	171.3041
Hotel	9.22e+006	2,937.6895	0.1213	0.0251	2,948.1992
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.076e+007	3,428.3506	0.1415	0.0293	3,440.6156
Total		**6,917.8048**	**0.2856**	**0.0591**	**6,942.5535**

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	2.5836	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Unmitigated	2.5836	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243

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	0.3924					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1901					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-003	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Total	**2.5836**	**1.1000e-004**	**0.0118**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.0228**	**0.0228**	**6.0000e-005**	**0.0000**	**0.0243**

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	0.3924					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1901					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-003	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Total	**2.5836**	**1.1000e-004**	**0.0118**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.0228**	**0.0228**	**6.0000e-005**	**0.0000**	**0.0243**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	194.7019	1.0932	0.0272	230.1398
Unmitigated	194.7019	1.0932	0.0272	230.1398

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	3.41475 / 0.217963	16.0219	0.1119	2.7500e-003	19.6401
Hotel	11.1106 / 1.23452	53.9905	0.3641	8.9800e-003	65.7695
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	15.4577 / 9.47404	102.5713	0.5077	0.0127	119.0570
Regional Shopping Center	3.33326 / 2.04297	22.1183	0.1095	2.7400e-003	25.6733
Total		**194.7020**	**1.0932**	**0.0272**	**230.1398**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	3.41475 / 0.217963	16.0219	0.1119	2.7500e-003	19.6401
Hotel	11.1106 / 1.23452	53.9905	0.3641	8.9800e-003	65.7695
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	15.4577 / 9.47404	102.5713	0.5077	0.0127	119.0570
Regional Shopping Center	3.33326 / 2.04297	22.1183	0.1095	2.7400e-003	25.6733
Total		**194.7020**	**1.0932**	**0.0272**	**230.1398**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	387.8528	22.9214	0.0000	960.8889
Unmitigated	387.8528	22.9214	0.0000	960.8889

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	133.88	27.1764	1.6061	0.0000	67.3285
Hotel	239.81	48.6793	2.8769	0.0000	120.6008
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	1489.75	302.4058	17.8717	0.0000	749.1975
Regional Shopping Center	47.25	9.5913	0.5668	0.0000	23.7621
Total		**387.8528**	**22.9214**	**0.0000**	**960.8889**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	133.88	27.1764	1.6061	0.0000	67.3285
Hotel	239.81	48.6793	2.8769	0.0000	120.6008
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	1489.75	302.4058	17.8717	0.0000	749.1975
Regional Shopping Center	47.25	9.5913	0.5668	0.0000	23.7621
Total		**387.8528**	**22.9214**	**0.0000**	**960.8889**

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

DSRT SURF Proposed Project SP Buildout

Salton Sea Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	520.00	Space	3.51	208,000.00	0
Other Asphalt Surfaces	1.50	Acre	1.00	65,340.00	0
High Turnover (Sit Down Restaurant)	11.25	1000sqft	0.26	11,250.00	0
Hotel	438.00	Room	6.00	500,000.00	0
Recreational Swimming Pool	261.36	1000sqft	6.00	261,360.00	0
Regional Shopping Center	45.00	1000sqft	1.03	45,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	20
Climate Zone	15			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Summer

Project Characteristics -

Land Use - Assumptions made due to SP level information. See AQ/GHG report for assumption breakdown.

Construction Phase - Assumes a 2-year buildout

Off-road Equipment - Number of equipment increased.

Off-road Equipment - Added material handling equipment for export.

Trips and VMT - Worse case scenario haul trip is 2.5 miles north to the Classic Club.

On-road Fugitive Dust - All roads in project area are paced.

Grading - Excavation for the lagoon will require approx. 103,000 CY of export.

Architectural Coating - Use of low VOC coatings per SCAQMD Rule 1113

Vehicle Trips - Per Traffic Report, total project daily trips = 5496. Assumes some visitors may be coming from greater distances, 25 miles average per trip assumed.

Road Dust - All roads paved.

Construction Off-road Equipment Mitigation - Standard requirements per SCAQMD Rule 403.1 Dust Control.

Energy Use - All electricity will be Title 24 approved. Lagoon wave machine and lighting assumptions accounted for in "Regional Shopping Center."

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	125.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	125.00
tblArchitecturalCoating	EF_Parking	150.00	125.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstructionPhase	NumDays	20.00	110.00
tblConstructionPhase	NumDays	300.00	350.00
tblConstructionPhase	NumDays	30.00	90.00
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	10.00	20.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	28.48	0.00

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Summer

tblEnergyUse	NT24E	6.23	0.00
tblEnergyUse	NT24E	2.44	0.00
tblEnergyUse	T24E	3.92	4.00
tblEnergyUse	T24E	12.38	41.00
tblEnergyUse	T24E	6.47	13.00
tblEnergyUse	T24E	4.58	233.50
tblGrading	AcresOfGrading	225.00	17.80
tblGrading	MaterialExported	0.00	103,000.00
tblLandUse	LandUseSquareFeet	635,976.00	500,000.00
tblLandUse	LotAcreage	4.68	3.51
tblLandUse	LotAcreage	1.50	1.00
tblLandUse	LotAcreage	14.60	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00

tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblRoadDust	RoadPercentPave	50	100
tblTripsAndVMT	HaulingTripLength	20.00	2.50
tblTripsAndVMT	WorkerTripNumber	28.00	20.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	ST_TR	158.37	56.17
tblVehicleTrips	ST_TR	8.19	8.36
tblVehicleTrips	ST_TR	9.10	4.30
tblVehicleTrips	ST_TR	49.97	1.68
tblVehicleTrips	SU_TR	131.84	56.17
tblVehicleTrips	SU_TR	5.95	8.36
tblVehicleTrips	SU_TR	13.60	4.30
tblVehicleTrips	SU_TR	25.24	1.68
tblVehicleTrips	WD_TR	127.15	56.17
tblVehicleTrips	WD_TR	8.17	8.36
tblVehicleTrips	WD_TR	33.82	4.30
tblVehicleTrips	WD_TR	42.70	1.68

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					
2019	8.8450	99.7316	67.8518	0.1483	18.2169	3.7267	20.6082	9.9706	3.4295	12.1707	0.0000	14,784.9732	14,784.9732	3.7696	0.0000	14,839.1529
2020	8.0564	62.1293	64.7387	0.1466	4.8229	2.4536	7.2765	1.2998	2.3056	3.6054	0.0000	14,517.3833	14,517.3833	2.1017	0.0000	14,569.9264
2021	66.1554	45.6644	52.6979	0.1315	5.4588	1.5232	6.9820	1.4685	1.4487	2.9171	0.0000	13,063.1110	13,063.1110	1.3809	0.0000	13,097.6326
Maximum	**66.1554**	**99.7316**	**67.8518**	**0.1483**	**18.2169**	**3.7267**	**20.6082**	**9.9706**	**3.4295**	**12.1707**	**0.0000**	**14,784.9732**	**14,784.9732**	**3.7696**	**0.0000**	**14,839.1529**

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					
2019	8.8450	99.7316	67.8518	0.1483	7.1964	3.7267	9.5878	3.9129	3.4295	6.1129	0.0000	14,784.9732	14,784.9732	3.7696	0.0000	14,839.1529
2020	8.0564	62.1293	64.7387	0.1466	4.8229	2.4536	7.2765	1.2998	2.3056	3.6054	0.0000	14,517.3833	14,517.3833	2.1017	0.0000	14,569.9264
2021	66.1554	45.6644	52.6979	0.1315	5.4588	1.5232	6.9820	1.4685	1.4487	2.9171	0.0000	13,063.1110	13,063.1110	1.3809	0.0000	13,097.6326
Maximum	**66.1554**	**99.7316**	**67.8518**	**0.1483**	**7.1964**	**3.7267**	**9.5878**	**3.9129**	**3.4295**	**6.1129**	**0.0000**	**14,784.9732**	**14,784.9732**	**3.7696**	**0.0000**	**14,839.1529**

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Summer

	ROG	NOx	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**	**38.67**	**0.00**	**31.61**	**47.55**	**0.00**	**32.41**	**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	14.1631	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Energy	0.9804	8.9125	7.4865	0.0535		0.6774	0.6774		0.6774	0.6774		10,694.9557	10,694.9557	0.2050	0.1961	10,758.5105
Mobile	14.8306	107.9586	141.9591	0.4792	26.2804	0.3143	26.5947	7.0531	0.2960	7.3491		49,065.9757	49,065.9757	3.5120		49,153.7766
Total	**29.9741**	**116.8723**	**149.5764**	**0.5327**	**26.2804**	**0.9921**	**27.2725**	**7.0531**	**0.9739**	**8.0269**		**59,761.2109**	**59,761.2109**	**3.7178**	**0.1961**	**59,912.5851**

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	14.1631	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Energy	0.9804	8.9125	7.4865	0.0535		0.6774	0.6774		0.6774	0.6774		10,694.9557	10,694.9557	0.2050	0.1961	10,758.5105
Mobile	14.8306	107.9586	141.9591	0.4792	26.2804	0.3143	26.5947	7.0531	0.2960	7.3491		49,065.9757	49,065.9757	3.5120		49,153.7766
Total	**29.9741**	**116.8723**	**149.5764**	**0.5327**	**26.2804**	**0.9921**	**27.2725**	**7.0531**	**0.9739**	**8.0269**		**59,761.2109**	**59,761.2109**	**3.7178**	**0.1961**	**59,912.5851**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	6/28/2019	5	20	
2	Grading	Grading	6/29/2019	11/1/2019	5	90	
3	Paving	Paving	11/1/2019	1/16/2020	5	55	
4	Building Construction	Building Construction	11/2/2019	3/5/2021	5	350	
5	Architectural Coating	Architectural Coating	1/1/2021	6/3/2021	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 17.8

Acres of Paving: 4.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 834,375; Non-Residential Outdoor: 278,125; Striped Parking Area: 16,400 (Architectural Coating – sqft)

OffRoad Equipment

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Other Material Handling Equipment	3	8.00	168	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	20.00	0.00	12,875.00	11.00	5.40	2.50	LD_Mix	HDT_Mix	HHDT
Building Construction	12	454.00	179.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	91.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**		**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1179	0.0742	0.9228	1.6100e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		160.0181	160.0181	7.7700e-003		160.2123
Total	**0.1179**	**0.0742**	**0.9228**	**1.6100e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**160.0181**	**160.0181**	**7.7700e-003**		**160.2123**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**7.0458**	**2.3904**	**9.4362**	**3.8730**	**2.1991**	**6.0721**	**0.0000**	**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1179	0.0742	0.9228	1.6100e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		160.0181	160.0181	7.7700e-003		160.2123
Total	**0.1179**	**0.0742**	**0.9228**	**1.6100e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**160.0181**	**160.0181**	**7.7700e-003**		**160.2123**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4598	0.0000	6.4598	3.3674	0.0000	3.3674			0.0000			0.0000
Off-Road	5.7331	64.3823	44.7021	0.0793		2.8762	2.8762		2.6461	2.6461		7,856.3615	7,856.3615	2.4857		7,918.5032
Total	**5.7331**	**64.3823**	**44.7021**	**0.0793**	**6.4598**	**2.8762**	**9.3359**	**3.3674**	**2.6461**	**6.0135**		**7,856.3615**	**7,856.3615**	**2.4857**		**7,918.5032**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4298	19.9610	1.9030	0.0367	0.3162	0.0241	0.3402	0.0870	0.0230	0.1100		3,855.8096	3,855.8096	0.5547		3,869.6770
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1310	0.0824	1.0254	1.7900e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		177.7979	177.7979	8.6300e-003		178.0136
Total	**0.5608**	**20.0434**	**2.9284**	**0.0385**	**0.4835**	**0.0252**	**0.5087**	**0.1313**	**0.0240**	**0.1554**		**4,033.6074**	**4,033.6074**	**0.5633**		**4,047.6906**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5193	0.0000	2.5193	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	5.7331	64.3823	44.7021	0.0793		2.8762	2.8762		2.6461	2.6461	0.0000	7,856.3615	7,856.3615	2.4857		7,918.5032
Total	**5.7331**	**64.3823**	**44.7021**	**0.0793**	**2.5193**	**2.8762**	**5.3955**	**1.3133**	**2.6461**	**3.9593**	**0.0000**	**7,856.3615**	**7,856.3615**	**2.4857**		**7,918.5032**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4298	19.9610	1.9030	0.0367	0.3162	0.0241	0.3402	0.0870	0.0230	0.1100		3,855.8096	3,855.8096	0.5547		3,869.6770
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1310	0.0824	1.0254	1.7900e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		177.7979	177.7979	8.6300e-003		178.0136
Total	**0.5608**	**20.0434**	**2.9284**	**0.0385**	**0.4835**	**0.0252**	**0.5087**	**0.1313**	**0.0240**	**0.1554**		**4,033.6074**	**4,033.6074**	**0.5633**		**4,047.6906**

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5021**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.4 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0983	0.0618	0.7690	1.3400e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		133.3484	133.3484	6.4700e-003		133.5102
Total	**0.0983**	**0.0618**	**0.7690**	**1.3400e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**133.3484**	**133.3484**	**6.4700e-003**		**133.5102**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5021**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.4 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0983	0.0618	0.7690	1.3400e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		133.3484	133.3484	6.4700e-003		133.5102
Total	**0.0983**	**0.0618**	**0.7690**	**1.3400e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**133.3484**	**133.3484**	**6.4700e-003**		**133.5102**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4042**	**14.0656**	**14.6521**	**0.0228**		**0.7528**	**0.7528**		**0.6926**	**0.6926**		**2,207.7334**	**2,207.7334**	**0.7140**		**2,225.5841**

3.4 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0907	0.0559	0.7018	1.3000e-003	0.1255	7.9000e-004	0.1263	0.0333	7.3000e-004	0.0340		129.1118	129.1118	5.8400e-003		129.2577
Total	**0.0907**	**0.0559**	**0.7018**	**1.3000e-003**	**0.1255**	**7.9000e-004**	**0.1263**	**0.0333**	**7.3000e-004**	**0.0340**		**129.1118**	**129.1118**	**5.8400e-003**		**129.2577**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4042**	**14.0656**	**14.6521**	**0.0228**		**0.7528**	**0.7528**		**0.6926**	**0.6926**	**0.0000**	**2,207.7334**	**2,207.7334**	**0.7140**		**2,225.5841**

3.4 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0907	0.0559	0.7018	1.3000e-003	0.1255	7.9000e-004	0.1263	0.0333	7.3000e-004	0.0340		129.1118	129.1118	5.8400e-003		129.2577
Total	**0.0907**	**0.0559**	**0.7018**	**1.3000e-003**	**0.1255**	**7.9000e-004**	**0.1263**	**0.0333**	**7.3000e-004**	**0.0340**		**129.1118**	**129.1118**	**5.8400e-003**		**129.2577**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6314	31.7371	24.7005	0.0411		1.8382	1.8382		1.7432	1.7432		3,921.9017	3,921.9017	0.8636		3,943.4922
Total	**3.6314**	**31.7371**	**24.7005**	**0.0411**		**1.8382**	**1.8382**		**1.7432**	**1.7432**		**3,921.9017**	**3,921.9017**	**0.8636**		**3,943.4922**

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6395	18.8684	4.4418	0.0424	0.8990	0.1152	1.0141	0.2590	0.1102	0.3692		4,436.7089	4,436.7089	0.3871		4,446.3868
Worker	2.9738	1.8708	23.2758	0.0407	3.7985	0.0246	3.8231	1.0075	0.0227	1.0302		4,036.0117	4,036.0117	0.1959		4,040.9090
Total	**3.6133**	**20.7392**	**27.7175**	**0.0831**	**4.6975**	**0.1398**	**4.8372**	**1.2665**	**0.1328**	**1.3994**		**8,472.7206**	**8,472.7206**	**0.5830**		**8,487.2958**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.6314	31.7371	24.7005	0.0411		1.8382	1.8382		1.7432	1.7432	0.0000	3,921.9017	3,921.9017	0.8636		3,943.4922
Total	**3.6314**	**31.7371**	**24.7005**	**0.0411**		**1.8382**	**1.8382**		**1.7432**	**1.7432**	**0.0000**	**3,921.9017**	**3,921.9017**	**0.8636**		**3,943.4922**

3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6395	18.8684	4.4418	0.0424	0.8990	0.1152	1.0141	0.2590	0.1102	0.3692		4,436.7089	4,436.7089	0.3871		4,446.3868
Worker	2.9738	1.8708	23.2758	0.0407	3.7985	0.0246	3.8231	1.0075	0.0227	1.0302		4,036.0117	4,036.0117	0.1959		4,040.9090
Total	**3.6133**	**20.7392**	**27.7175**	**0.0831**	**4.6975**	**0.1398**	**4.8372**	**1.2665**	**0.1328**	**1.3994**		**8,472.7206**	**8,472.7206**	**0.5830**		**8,487.2958**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.2577	28.9536	24.1720	0.0411		1.5947	1.5947		1.5124	1.5124		3,872.5163	3,872.5163	0.8467		3,893.6848
Total	**3.2577**	**28.9536**	**24.1720**	**0.0411**		**1.5947**	**1.5947**		**1.5124**	**1.5124**		**3,872.5163**	**3,872.5163**	**0.8467**		**3,893.6848**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5579	17.3638	3.9732	0.0420	0.8990	0.0813	0.9803	0.2590	0.0778	0.3368		4,400.2394	4,400.2394	0.3585		4,409.2007
Worker	2.7458	1.6905	21.2396	0.0394	3.7985	0.0240	3.8225	1.0075	0.0221	1.0296		3,907.7824	3,907.7824	0.1767		3,912.1991
Total	**3.3037**	**19.0543**	**25.2128**	**0.0814**	**4.6974**	**0.1053**	**4.8028**	**1.2665**	**0.0999**	**1.3664**		**8,308.0218**	**8,308.0218**	**0.5351**		**8,321.3999**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.2577	28.9536	24.1720	0.0411		1.5947	1.5947		1.5124	1.5124	0.0000	3,872.5163	3,872.5163	0.8467		3,893.6848
Total	**3.2577**	**28.9536**	**24.1720**	**0.0411**		**1.5947**	**1.5947**		**1.5124**	**1.5124**	**0.0000**	**3,872.5163**	**3,872.5163**	**0.8467**		**3,893.6848**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5579	17.3638	3.9732	0.0420	0.8990	0.0813	0.9803	0.2590	0.0778	0.3368		4,400.2394	4,400.2394	0.3585		4,409.2007
Worker	2.7458	1.6905	21.2396	0.0394	3.7985	0.0240	3.8225	1.0075	0.0221	1.0296		3,907.7824	3,907.7824	0.1767		3,912.1991
Total	**3.3037**	**19.0543**	**25.2128**	**0.0814**	**4.6974**	**0.1053**	**4.8028**	**1.2665**	**0.0999**	**1.3664**		**8,308.0218**	**8,308.0218**	**0.5351**		**8,321.3999**

3.5 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	2.9223	26.3503	23.7137	0.0411		1.3727	1.3727		1.3016	1.3016		3,872.7726	3,872.7726	0.8329		3,893.5962
Total	**2.9223**	**26.3503**	**23.7137**	**0.0411**		**1.3727**	**1.3727**		**1.3016**	**1.3016**		**3,872.7726**	**3,872.7726**	**0.8329**		**3,893.5962**

3.5 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	0.4913	15.9443	3.5592	0.0418	0.8989	0.0283	0.9272	0.2590	0.0271	0.2861		4,375.6536	4,375.6536	0.3346		4,384.0190
Worker	2.5518	1.5353	19.6657	0.0380	3.7985	0.0234	3.8219	1.0075	0.0216	1.0291		3,776.3109	3,776.3109	0.1616		3,780.3510
Total	**3.0431**	**17.4795**	**23.2249**	**0.0798**	**4.6974**	**0.0517**	**4.7491**	**1.2665**	**0.0486**	**1.3151**		**8,151.9645**	**8,151.9645**	**0.4962**		**8,164.3700**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.9223	26.3503	23.7137	0.0411		1.3727	1.3727		1.3016	1.3016	0.0000	3,872.7726	3,872.7726	0.8329		3,893.5962
Total	**2.9223**	**26.3503**	**23.7137**	**0.0411**		**1.3727**	**1.3727**		**1.3016**	**1.3016**	**0.0000**	**3,872.7726**	**3,872.7726**	**0.8329**		**3,893.5962**

3.5 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	0.4913	15.9443	3.5592	0.0418	0.8989	0.0283	0.9272	0.2590	0.0271	0.2861		4,375.6536	4,375.6536	0.3346		4,384.0190
Worker	2.5518	1.5353	19.6657	0.0380	3.7985	0.0234	3.8219	1.0075	0.0216	1.0291		3,776.3109	3,776.3109	0.1616		3,780.3510
Total	**3.0431**	**17.4795**	**23.2249**	**0.0798**	**4.6974**	**0.0517**	**4.7491**	**1.2665**	**0.0486**	**1.3151**		**8,151.9645**	**8,151.9645**	**0.4962**		**8,164.3700**

3.6 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	59.4597					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	**59.6786**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.5115	0.3077	3.9418	7.6200e-003	0.7614	4.6900e-003	0.7661	0.2020	4.3200e-003	0.2063		756.9258	756.9258	0.0324		757.7356
Total	**0.5115**	**0.3077**	**3.9418**	**7.6200e-003**	**0.7614**	**4.6900e-003**	**0.7661**	**0.2020**	**4.3200e-003**	**0.2063**		**756.9258**	**756.9258**	**0.0324**		**757.7356**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	59.4597					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	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**59.6786**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.5115	0.3077	3.9418	7.6200e-003	0.7614	4.6900e-003	0.7661	0.2020	4.3200e-003	0.2063		756.9258	756.9258	0.0324		757.7356
Total	**0.5115**	**0.3077**	**3.9418**	**7.6200e-003**	**0.7614**	**4.6900e-003**	**0.7661**	**0.2020**	**4.3200e-003**	**0.2063**		**756.9258**	**756.9258**	**0.0324**		**757.7356**

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	14.8306	107.9586	141.9591	0.4792	26.2804	0.3143	26.5947	7.0531	0.2960	7.3491		49,065.9757	49,065.9757	3.5120		49,153.7766
Unmitigated	14.8306	107.9586	141.9591	0.4792	26.2804	0.3143	26.5947	7.0531	0.2960	7.3491		49,065.9757	49,065.9757	3.5120		49,153.7766

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	631.91	631.91	631.91	505,822	505,822
Hotel	3,661.68	3,661.68	3661.68	8,788,137	8,788,137
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	1,123.85	1,123.85	1123.85	2,754,828	2,754,828
Regional Shopping Center	75.60	75.60	75.60	164,431	164,431
Total	5,493.04	5,493.04	5,493.04	12,213,217	12,213,217

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
Enclosed Parking with Elevator	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	12.50	4.20	5.40	8.50	72.50	19.00	37	20	43
Hotel	12.50	4.20	25.00	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	12.50	4.20	25.00	33.00	48.00	19.00	52	39	9
Regional Shopping Center	12.50	4.20	25.00	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
High Turnover (Sit Down Restaurant)	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Hotel	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Other Asphalt Surfaces	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Recreational Swimming Pool	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Regional Shopping Center	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9804	8.9125	7.4865	0.0535		0.6774	0.6774		0.6774	0.6774		10,694.9557	10,694.9557	0.2050	0.1961	10,758.5105
NaturalGas Unmitigated	0.9804	8.9125	7.4865	0.0535		0.6774	0.6774		0.6774	0.6774		10,694.9557	10,694.9557	0.2050	0.1961	10,758.5105

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	8427.95	0.0909	0.8263	0.6941	4.9600e-003		0.0628	0.0628		0.0628	0.0628		991.5230	991.5230	0.0190	0.0182	997.4151
Hotel	82205.5	0.8865	8.0594	6.7699	0.0484		0.6125	0.6125		0.6125	0.6125		9,671.2329	9,671.2329	0.1854	0.1773	9,728.7042
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Regional Shopping Center	273.699	2.9500e-003	0.0268	0.0225	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003		32.1998	32.1998	6.2000e-004	5.9000e-004	32.3912
Total		**0.9804**	**8.9125**	**7.4865**	**0.0535**		**0.6774**	**0.6774**		**0.6774**	**0.6774**		**10,694.9557**	**10,694.9557**	**0.2050**	**0.1961**	**10,758.5105**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	8.42795	0.0909	0.8263	0.6941	4.9600e-003		0.0628	0.0628		0.0628	0.0628		991.5230	991.5230	0.0190	0.0182	997.4151
Hotel	82.2055	0.8865	8.0594	6.7699	0.0484		0.6125	0.6125		0.6125	0.6125		9,671.2329	9,671.2329	0.1854	0.1773	9,728.7042
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Regional Shopping Center	0.273699	2.9500e-003	0.0268	0.0225	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003		32.1998	32.1998	6.2000e-004	5.9000e-004	32.3912
Total		**0.9804**	**8.9125**	**7.4865**	**0.0535**		**0.6774**	**0.6774**		**0.6774**	**0.6774**		**10,694.9557**	**10,694.9557**	**0.2050**	**0.1961**	**10,758.5105**

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	14.1631	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Unmitigated	14.1631	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981

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	2.1503					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.0006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0122	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Total	**14.1631**	**1.2000e-003**	**0.1309**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**		**0.2795**	**0.2795**	**7.4000e-004**		**0.2981**

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	2.1503					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.0006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0122	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Total	**14.1631**	**1.2000e-003**	**0.1309**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**		**0.2795**	**0.2795**	**7.4000e-004**		**0.2981**

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

DSRT SURF Proposed Project SP Buildout

Salton Sea Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	520.00	Space	3.51	208,000.00	0
Other Asphalt Surfaces	1.50	Acre	1.00	65,340.00	0
High Turnover (Sit Down Restaurant)	11.25	1000sqft	0.26	11,250.00	0
Hotel	438.00	Room	6.00	500,000.00	0
Recreational Swimming Pool	261.36	1000sqft	6.00	261,360.00	0
Regional Shopping Center	45.00	1000sqft	1.03	45,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	20
Climate Zone	15			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Winter

Project Characteristics -

Land Use - Assumptions made due to SP level information. See AQ/GHG report for assumption breakdown.

Construction Phase - Assumes a 2-year buildout

Off-road Equipment - Number of equipment increased.

Off-road Equipment - Added material handling equipment for export.

Trips and VMT - Worse case scenario haul trip is 2.5 miles north to the Classic Club.

On-road Fugitive Dust - All roads in project area are paced.

Grading - Excavation for the lagoon will require approx. 103,000 CY of export.

Architectural Coating - Use of low VOC coatings per SCAQMD Rule 1113

Vehicle Trips - Per Traffic Report, total project daily trips = 5496. Assumes some visitors may be coming from greater distances, 25 miles average per trip assumed.

Road Dust - All roads paved.

Construction Off-road Equipment Mitigation - Standard requirements per SCAQMD Rule 403.1 Dust Control.

Energy Use - All electricity will be Title 24 approved. Lagoon wave machine and lighting assumptions accounted for in "Regional Shopping Center."

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	125.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	125.00
tblArchitecturalCoating	EF_Parking	150.00	125.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstructionPhase	NumDays	20.00	110.00
tblConstructionPhase	NumDays	300.00	350.00
tblConstructionPhase	NumDays	30.00	90.00
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	10.00	20.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	28.48	0.00

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Winter

tblEnergyUse	NT24E	6.23	0.00
tblEnergyUse	NT24E	2.44	0.00
tblEnergyUse	T24E	3.92	4.00
tblEnergyUse	T24E	12.38	41.00
tblEnergyUse	T24E	6.47	13.00
tblEnergyUse	T24E	4.58	233.50
tblGrading	AcresOfGrading	225.00	17.80
tblGrading	MaterialExported	0.00	103,000.00
tblLandUse	LandUseSquareFeet	635,976.00	500,000.00
tblLandUse	LotAcreage	4.68	3.51
tblLandUse	LotAcreage	1.50	1.00
tblLandUse	LotAcreage	14.60	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00

tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblRoadDust	RoadPercentPave	50	100
tblTripsAndVMT	HaulingTripLength	20.00	2.50
tblTripsAndVMT	WorkerTripNumber	28.00	20.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	ST_TR	158.37	56.17
tblVehicleTrips	ST_TR	8.19	8.36
tblVehicleTrips	ST_TR	9.10	4.30
tblVehicleTrips	ST_TR	49.97	1.68
tblVehicleTrips	SU_TR	131.84	56.17
tblVehicleTrips	SU_TR	5.95	8.36
tblVehicleTrips	SU_TR	13.60	4.30
tblVehicleTrips	SU_TR	25.24	1.68
tblVehicleTrips	WD_TR	127.15	56.17
tblVehicleTrips	WD_TR	8.17	8.36
tblVehicleTrips	WD_TR	33.82	4.30
tblVehicleTrips	WD_TR	42.70	1.68

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					
2019	8.3262	99.1314	63.4926	0.1394	18.2169	3.7294	20.6082	9.9706	3.4320	12.1707	0.0000	13,896.2979	13,896.2979	3.8393	0.0000	13,976.9019
2020	7.5859	62.1126	59.2582	0.1379	4.8229	2.4552	7.2782	1.2998	2.3072	3.6070	0.0000	13,651.0122	13,651.0122	2.1077	0.0000	13,703.7035
2021	65.6539	45.5875	46.6480	0.1221	5.4588	1.5246	6.9834	1.4685	1.4500	2.9184	0.0000	12,118.5300	12,118.5300	1.3824	0.0000	12,153.0890
Maximum	**65.6539**	**99.1314**	**63.4926**	**0.1394**	**18.2169**	**3.7294**	**20.6082**	**9.9706**	**3.4320**	**12.1707**	**0.0000**	**13,896.2979**	**13,896.2979**	**3.8393**	**0.0000**	**13,976.9019**

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					
2019	8.3262	99.1314	63.4926	0.1394	7.1964	3.7294	9.5878	3.9129	3.4320	6.1129	0.0000	13,896.2979	13,896.2979	3.8393	0.0000	13,976.9019
2020	7.5859	62.1126	59.2582	0.1379	4.8229	2.4552	7.2782	1.2998	2.3072	3.6070	0.0000	13,651.0122	13,651.0122	2.1077	0.0000	13,703.7035
2021	65.6539	45.5875	46.6480	0.1221	5.4588	1.5246	6.9834	1.4685	1.4500	2.9184	0.0000	12,118.5300	12,118.5300	1.3824	0.0000	12,153.0890
Maximum	**65.6539**	**99.1314**	**63.4926**	**0.1394**	**7.1964**	**3.7294**	**9.5878**	**3.9129**	**3.4320**	**6.1129**	**0.0000**	**13,896.2979**	**13,896.2979**	**3.8393**	**0.0000**	**13,976.9019**

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Winter

	ROG	NOx	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**	**38.67**	**0.00**	**31.60**	**47.55**	**0.00**	**32.40**	**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	14.1631	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Energy	0.9804	8.9125	7.4865	0.0535		0.6774	0.6774		0.6774	0.6774		10,694.9557	10,694.9557	0.2050	0.1961	10,758.5105
Mobile	10.8656	107.3398	116.3483	0.4291	26.2804	0.3226	26.6030	7.0531	0.3040	7.3571		44,016.5204	44,016.5204	3.6281		44,107.2229
Total	**26.0091**	**116.2535**	**123.9656**	**0.4825**	**26.2804**	**1.0004**	**27.2808**	**7.0531**	**0.9818**	**8.0349**		**54,711.7555**	**54,711.7555**	**3.8338**	**0.1961**	**54,866.0314**

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	14.1631	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Energy	0.9804	8.9125	7.4865	0.0535		0.6774	0.6774		0.6774	0.6774		10,694.9557	10,694.9557	0.2050	0.1961	10,758.5105
Mobile	10.8656	107.3398	116.3483	0.4291	26.2804	0.3226	26.6030	7.0531	0.3040	7.3571		44,016.5204	44,016.5204	3.6281		44,107.2229
Total	**26.0091**	**116.2535**	**123.9656**	**0.4825**	**26.2804**	**1.0004**	**27.2808**	**7.0531**	**0.9818**	**8.0349**		**54,711.7555**	**54,711.7555**	**3.8338**	**0.1961**	**54,866.0314**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	6/28/2019	5	20	
2	Grading	Grading	6/29/2019	11/1/2019	5	90	
3	Paving	Paving	11/1/2019	1/16/2020	5	55	
4	Building Construction	Building Construction	11/2/2019	3/5/2021	5	350	
5	Architectural Coating	Architectural Coating	1/1/2021	6/3/2021	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 17.8

Acres of Paving: 4.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 834,375; Non-Residential Outdoor: 278,125; Striped Parking Area: 16,400 (Architectural Coating – sqft)

OffRoad Equipment

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Other Material Handling Equipment	3	8.00	168	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	20.00	0.00	12,875.00	11.00	5.40	2.50	LD_Mix	HDT_Mix	HHDT
Building Construction	12	454.00	179.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	91.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**		**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0968	0.0765	0.6624	1.3500e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		134.4593	134.4593	6.1400e-003		134.6128
Total	**0.0968**	**0.0765**	**0.6624**	**1.3500e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**134.4593**	**134.4593**	**6.1400e-003**		**134.6128**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**7.0458**	**2.3904**	**9.4362**	**3.8730**	**2.1991**	**6.0721**	**0.0000**	**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0968	0.0765	0.6624	1.3500e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		134.4593	134.4593	6.1400e-003		134.6128
Total	**0.0968**	**0.0765**	**0.6624**	**1.3500e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**134.4593**	**134.4593**	**6.1400e-003**		**134.6128**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4598	0.0000	6.4598	3.3674	0.0000	3.3674			0.0000			0.0000
Off-Road	5.7331	64.3823	44.7021	0.0793		2.8762	2.8762		2.6461	2.6461		7,856.3615	7,856.3615	2.4857		7,918.5032
Total	**5.7331**	**64.3823**	**44.7021**	**0.0793**	**6.4598**	**2.8762**	**9.3359**	**3.3674**	**2.6461**	**6.0135**		**7,856.3615**	**7,856.3615**	**2.4857**		**7,918.5032**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4793	19.3562	2.8376	0.0334	0.3162	0.0267	0.3429	0.0870	0.0256	0.1125		3,506.1057	3,506.1057	0.6276		3,521.7968
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1076	0.0851	0.7361	1.5000e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		149.3992	149.3992	6.8200e-003		149.5697
Total	**0.5869**	**19.4412**	**3.5736**	**0.0349**	**0.4835**	**0.0278**	**0.5113**	**0.1313**	**0.0266**	**0.1579**		**3,655.5050**	**3,655.5050**	**0.6345**		**3,671.3666**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5193	0.0000	2.5193	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	5.7331	64.3823	44.7021	0.0793		2.8762	2.8762		2.6461	2.6461	0.0000	7,856.3615	7,856.3615	2.4857		7,918.5032
Total	**5.7331**	**64.3823**	**44.7021**	**0.0793**	**2.5193**	**2.8762**	**5.3955**	**1.3133**	**2.6461**	**3.9593**	**0.0000**	**7,856.3615**	**7,856.3615**	**2.4857**		**7,918.5032**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4793	19.3562	2.8376	0.0334	0.3162	0.0267	0.3429	0.0870	0.0256	0.1125		3,506.1057	3,506.1057	0.6276		3,521.7968
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1076	0.0851	0.7361	1.5000e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		149.3992	149.3992	6.8200e-003		149.5697
Total	**0.5869**	**19.4412**	**3.5736**	**0.0349**	**0.4835**	**0.0278**	**0.5113**	**0.1313**	**0.0266**	**0.1579**		**3,655.5050**	**3,655.5050**	**0.6345**		**3,671.3666**

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5021**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.4 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0807	0.0638	0.5520	1.1300e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		112.0494	112.0494	5.1200e-003		112.1773
Total	**0.0807**	**0.0638**	**0.5520**	**1.1300e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**112.0494**	**112.0494**	**5.1200e-003**		**112.1773**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5021**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.4 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0807	0.0638	0.5520	1.1300e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		112.0494	112.0494	5.1200e-003		112.1773
Total	**0.0807**	**0.0638**	**0.5520**	**1.1300e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**112.0494**	**112.0494**	**5.1200e-003**		**112.1773**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4042**	**14.0656**	**14.6521**	**0.0228**		**0.7528**	**0.7528**		**0.6926**	**0.6926**		**2,207.7334**	**2,207.7334**	**0.7140**		**2,225.5841**

3.4 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0747	0.0576	0.5025	1.0900e-003	0.1255	7.9000e-004	0.1263	0.0333	7.3000e-004	0.0340		108.4854	108.4854	4.6100e-003		108.6008
Total	**0.0747**	**0.0576**	**0.5025**	**1.0900e-003**	**0.1255**	**7.9000e-004**	**0.1263**	**0.0333**	**7.3000e-004**	**0.0340**		**108.4854**	**108.4854**	**4.6100e-003**		**108.6008**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4042**	**14.0656**	**14.6521**	**0.0228**		**0.7528**	**0.7528**		**0.6926**	**0.6926**	**0.0000**	**2,207.7334**	**2,207.7334**	**0.7140**		**2,225.5841**

3.4 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0747	0.0576	0.5025	1.0900e-003	0.1255	7.9000e-004	0.1263	0.0333	7.3000e-004	0.0340		108.4854	108.4854	4.6100e-003		108.6008
Total	**0.0747**	**0.0576**	**0.5025**	**1.0900e-003**	**0.1255**	**7.9000e-004**	**0.1263**	**0.0333**	**7.3000e-004**	**0.0340**		**108.4854**	**108.4854**	**4.6100e-003**		**108.6008**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6314	31.7371	24.7005	0.0411		1.8382	1.8382		1.7432	1.7432		3,921.9017	3,921.9017	0.8636		3,943.4922
Total	**3.6314**	**31.7371**	**24.7005**	**0.0411**		**1.8382**	**1.8382**		**1.7432**	**1.7432**		**3,921.9017**	**3,921.9017**	**0.8636**		**3,943.4922**

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6705	18.8638	5.2433	0.0403	0.8990	0.1173	1.0163	0.2590	0.1122	0.3712		4,213.9815	4,213.9815	0.4340		4,224.8314
Worker	2.4417	1.9305	16.7083	0.0341	3.7985	0.0246	3.8231	1.0075	0.0227	1.0302		3,391.3627	3,391.3627	0.1548		3,395.2332
Total	**3.1121**	**20.7944**	**21.9516**	**0.0744**	**4.6975**	**0.1419**	**4.8394**	**1.2665**	**0.1349**	**1.4014**		**7,605.3443**	**7,605.3443**	**0.5888**		**7,620.0647**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.6314	31.7371	24.7005	0.0411		1.8382	1.8382		1.7432	1.7432	0.0000	3,921.9017	3,921.9017	0.8636		3,943.4922
Total	**3.6314**	**31.7371**	**24.7005**	**0.0411**		**1.8382**	**1.8382**		**1.7432**	**1.7432**	**0.0000**	**3,921.9017**	**3,921.9017**	**0.8636**		**3,943.4922**

3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6705	18.8638	5.2433	0.0403	0.8990	0.1173	1.0163	0.2590	0.1122	0.3712		4,213.9815	4,213.9815	0.4340		4,224.8314
Worker	2.4417	1.9305	16.7083	0.0341	3.7985	0.0246	3.8231	1.0075	0.0227	1.0302		3,391.3627	3,391.3627	0.1548		3,395.2332
Total	**3.1121**	**20.7944**	**21.9516**	**0.0744**	**4.6975**	**0.1419**	**4.8394**	**1.2665**	**0.1349**	**1.4014**		**7,605.3443**	**7,605.3443**	**0.5888**		**7,620.0647**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.2577	28.9536	24.1720	0.0411		1.5947	1.5947		1.5124	1.5124		3,872.5163	3,872.5163	0.8467		3,893.6848
Total	**3.2577**	**28.9536**	**24.1720**	**0.0411**		**1.5947**	**1.5947**		**1.5124**	**1.5124**		**3,872.5163**	**3,872.5163**	**0.8467**		**3,893.6848**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5871	17.2934	4.7227	0.0399	0.8990	0.0830	0.9819	0.2590	0.0794	0.3384		4,178.7854	4,178.7854	0.4026		4,188.8505
Worker	2.2621	1.7425	15.2089	0.0330	3.7985	0.0240	3.8225	1.0075	0.0221	1.0296		3,283.4917	3,283.4917	0.1397		3,286.9834
Total	**2.8492**	**19.0359**	**19.9316**	**0.0730**	**4.6974**	**0.1070**	**4.8044**	**1.2665**	**0.1015**	**1.3680**		**7,462.2771**	**7,462.2771**	**0.5423**		**7,475.8339**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.2577	28.9536	24.1720	0.0411		1.5947	1.5947		1.5124	1.5124	0.0000	3,872.5163	3,872.5163	0.8467		3,893.6848
Total	**3.2577**	**28.9536**	**24.1720**	**0.0411**		**1.5947**	**1.5947**		**1.5124**	**1.5124**	**0.0000**	**3,872.5163**	**3,872.5163**	**0.8467**		**3,893.6848**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5871	17.2934	4.7227	0.0399	0.8990	0.0830	0.9819	0.2590	0.0794	0.3384		4,178.7854	4,178.7854	0.4026		4,188.8505
Worker	2.2621	1.7425	15.2089	0.0330	3.7985	0.0240	3.8225	1.0075	0.0221	1.0296		3,283.4917	3,283.4917	0.1397		3,286.9834
Total	**2.8492**	**19.0359**	**19.9316**	**0.0730**	**4.6974**	**0.1070**	**4.8044**	**1.2665**	**0.1015**	**1.3680**		**7,462.2771**	**7,462.2771**	**0.5423**		**7,475.8339**

3.5 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	2.9223	26.3503	23.7137	0.0411		1.3727	1.3727		1.3016	1.3016		3,872.7726	3,872.7726	0.8329		3,893.5962
Total	**2.9223**	**26.3503**	**23.7137**	**0.0411**		**1.3727**	**1.3727**		**1.3016**	**1.3016**		**3,872.7726**	**3,872.7726**	**0.8329**		**3,893.5962**

3.5 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	0.5194	15.8126	4.2670	0.0397	0.8989	0.0297	0.9286	0.2590	0.0284	0.2874		4,155.2562	4,155.2562	0.3765		4,164.6691
Worker	2.1106	1.5809	14.0364	0.0319	3.7985	0.0234	3.8219	1.0075	0.0216	1.0291		3,173.0461	3,173.0461	0.1279		3,176.2447
Total	**2.6300**	**17.3935**	**18.3033**	**0.0716**	**4.6974**	**0.0531**	**4.7505**	**1.2665**	**0.0499**	**1.3164**		**7,328.3023**	**7,328.3023**	**0.5045**		**7,340.9138**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9223	26.3503	23.7137	0.0411		1.3727	1.3727		1.3016	1.3016	0.0000	3,872.7726	3,872.7726	0.8329		3,893.5962
Total	**2.9223**	**26.3503**	**23.7137**	**0.0411**		**1.3727**	**1.3727**		**1.3016**	**1.3016**	**0.0000**	**3,872.7726**	**3,872.7726**	**0.8329**		**3,893.5962**

3.5 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	0.5194	15.8126	4.2670	0.0397	0.8989	0.0297	0.9286	0.2590	0.0284	0.2874		4,155.2562	4,155.2562	0.3765		4,164.6691
Worker	2.1106	1.5809	14.0364	0.0319	3.7985	0.0234	3.8219	1.0075	0.0216	1.0291		3,173.0461	3,173.0461	0.1279		3,176.2447
Total	**2.6300**	**17.3935**	**18.3033**	**0.0716**	**4.6974**	**0.0531**	**4.7505**	**1.2665**	**0.0499**	**1.3164**		**7,328.3023**	**7,328.3023**	**0.5045**		**7,340.9138**

3.6 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	59.4597					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	**59.6786**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.4231	0.3169	2.8135	6.3900e-003	0.7614	4.6900e-003	0.7661	0.2020	4.3200e-003	0.2063		636.0070	636.0070	0.0256		636.6482
Total	**0.4231**	**0.3169**	**2.8135**	**6.3900e-003**	**0.7614**	**4.6900e-003**	**0.7661**	**0.2020**	**4.3200e-003**	**0.2063**		**636.0070**	**636.0070**	**0.0256**		**636.6482**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	59.4597					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	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**59.6786**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.4231	0.3169	2.8135	6.3900e-003	0.7614	4.6900e-003	0.7661	0.2020	4.3200e-003	0.2063		636.0070	636.0070	0.0256		636.6482
Total	**0.4231**	**0.3169**	**2.8135**	**6.3900e-003**	**0.7614**	**4.6900e-003**	**0.7661**	**0.2020**	**4.3200e-003**	**0.2063**		**636.0070**	**636.0070**	**0.0256**		**636.6482**

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	10.8656	107.3398	116.3483	0.4291	26.2804	0.3226	26.6030	7.0531	0.3040	7.3571		44,016.5204	44,016.5204	3.6281		44,107.2229
Unmitigated	10.8656	107.3398	116.3483	0.4291	26.2804	0.3226	26.6030	7.0531	0.3040	7.3571		44,016.5204	44,016.5204	3.6281		44,107.2229

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	631.91	631.91	631.91	505,822	505,822
Hotel	3,661.68	3,661.68	3661.68	8,788,137	8,788,137
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	1,123.85	1,123.85	1123.85	2,754,828	2,754,828
Regional Shopping Center	75.60	75.60	75.60	164,431	164,431
Total	5,493.04	5,493.04	5,493.04	12,213,217	12,213,217

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
Enclosed Parking with Elevator	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	12.50	4.20	5.40	8.50	72.50	19.00	37	20	43
Hotel	12.50	4.20	25.00	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	12.50	4.20	25.00	33.00	48.00	19.00	52	39	9
Regional Shopping Center	12.50	4.20	25.00	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
High Turnover (Sit Down Restaurant)	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Hotel	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Other Asphalt Surfaces	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Recreational Swimming Pool	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Regional Shopping Center	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9804	8.9125	7.4865	0.0535		0.6774	0.6774		0.6774	0.6774		10,694.9557	10,694.9557	0.2050	0.1961	10,758.5105
NaturalGas Unmitigated	0.9804	8.9125	7.4865	0.0535		0.6774	0.6774		0.6774	0.6774		10,694.9557	10,694.9557	0.2050	0.1961	10,758.5105

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	8427.95	0.0909	0.8263	0.6941	4.9600e-003		0.0628	0.0628		0.0628	0.0628		991.5230	991.5230	0.0190	0.0182	997.4151
Hotel	82205.5	0.8865	8.0594	6.7699	0.0484		0.6125	0.6125		0.6125	0.6125		9,671.2329	9,671.2329	0.1854	0.1773	9,728.7042
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Regional Shopping Center	273.699	2.9500e-003	0.0268	0.0225	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003		32.1998	32.1998	6.2000e-004	5.9000e-004	32.3912
Total		**0.9804**	**8.9125**	**7.4865**	**0.0535**		**0.6774**	**0.6774**		**0.6774**	**0.6774**		**10,694.9557**	**10,694.9557**	**0.2050**	**0.1961**	**10,758.5105**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	8.42795	0.0909	0.8263	0.6941	4.9600e-003		0.0628	0.0628		0.0628	0.0628		991.5230	991.5230	0.0190	0.0182	997.4151
Hotel	82.2055	0.8865	8.0594	6.7699	0.0484		0.6125	0.6125		0.6125	0.6125		9,671.2329	9,671.2329	0.1854	0.1773	9,728.7042
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Regional Shopping Center	0.273699	2.9500e-003	0.0268	0.0225	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003		32.1998	32.1998	6.2000e-004	5.9000e-004	32.3912
Total		**0.9804**	**8.9125**	**7.4865**	**0.0535**		**0.6774**	**0.6774**		**0.6774**	**0.6774**		**10,694.9557**	**10,694.9557**	**0.2050**	**0.1961**	**10,758.5105**

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	14.1631	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Unmitigated	14.1631	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981

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	2.1503					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.0006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0122	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Total	**14.1631**	**1.2000e-003**	**0.1309**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**		**0.2795**	**0.2795**	**7.4000e-004**		**0.2981**

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	2.1503					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.0006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0122	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Total	**14.1631**	**1.2000e-003**	**0.1309**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**		**0.2795**	**0.2795**	**7.4000e-004**		**0.2981**

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

DSRT SURF Proposed Project SP Buildout

Salton Sea Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	520.00	Space	3.51	208,000.00	0
Other Asphalt Surfaces	1.50	Acre	1.00	65,340.00	0
High Turnover (Sit Down Restaurant)	11.25	1000sqft	0.26	11,250.00	0
Hotel	438.00	Room	6.00	500,000.00	0
Recreational Swimming Pool	261.36	1000sqft	6.00	261,360.00	0
Regional Shopping Center	45.00	1000sqft	1.03	45,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	20
Climate Zone	15			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Annual

Project Characteristics -

Land Use - Assumptions made due to SP level information. See AQ/GHG report for assumption breakdown.

Construction Phase - Assumes a 2-year buildout

Off-road Equipment - Number of equipment increased.

Off-road Equipment - Added material handling equipment for export.

Trips and VMT - Worse case scenario haul trip is 2.5 miles north to the Classic Club.

On-road Fugitive Dust - All roads in project area are paced.

Grading - Excavation for the lagoon will require approx. 103,000 CY of export.

Architectural Coating - Use of low VOC coatings per SCAQMD Rule 1113

Vehicle Trips - Per Traffic Report, total project daily trips on a special events day = 7288. Assumes some visitors may be traveling from out of town, trip lenght increased to 25 miles.

Road Dust - All roads paved.

Construction Off-road Equipment Mitigation - Standard requirements per SCAQMD Rule 403.1 Dust Control.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	125.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	125.00
tblArchitecturalCoating	EF_Parking	150.00	125.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstructionPhase	NumDays	20.00	110.00
tblConstructionPhase	NumDays	300.00	350.00
tblConstructionPhase	NumDays	30.00	90.00
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	10.00	20.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	28.48	0.00
tblEnergyUse	NT24E	6.23	0.00

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Annual

tblEnergyUse	NT24E	2.44	0.00
tblEnergyUse	T24E	3.92	4.00
tblEnergyUse	T24E	12.38	41.00
tblEnergyUse	T24E	6.47	13.00
tblEnergyUse	T24E	4.58	233.50
tblGrading	AcresOfGrading	225.00	17.80
tblGrading	MaterialExported	0.00	103,000.00
tblLandUse	LandUseSquareFeet	635,976.00	500,000.00
tblLandUse	LotAcreage	4.68	3.51
tblLandUse	LotAcreage	1.50	1.00
tblLandUse	LotAcreage	14.60	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00

tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblRoadDust	RoadPercentPave	50	100
tblTripsAndVMT	HaulingTripLength	20.00	2.50
tblTripsAndVMT	WorkerTripNumber	28.00	20.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	ST_TR	158.37	61.33
tblVehicleTrips	ST_TR	9.10	11.16
tblVehicleTrips	ST_TR	49.97	2.04
tblVehicleTrips	SU_TR	131.84	61.33
tblVehicleTrips	SU_TR	5.95	8.19
tblVehicleTrips	SU_TR	13.60	11.16
tblVehicleTrips	SU_TR	25.24	2.04
tblVehicleTrips	WD_TR	127.15	61.33
tblVehicleTrips	WD_TR	8.17	8.19
tblVehicleTrips	WD_TR	33.82	11.16
tblVehicleTrips	WD_TR	42.70	2.04

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.5037	5.6838	3.7175	8.6500e-003	0.5945	0.2138	0.8084	0.2841	0.1979	0.4821	0.0000	787.5389	787.5389	0.1780	0.0000	791.9879
2020	0.8112	6.3935	6.0405	0.0156	0.6090	0.2273	0.8364	0.1644	0.2155	0.3798	0.0000	1,404.6866	1,404.6866	0.1674	0.0000	1,408.8710
2021	3.4340	1.1112	1.2679	3.2200e-003	0.1482	0.0382	0.1864	0.0398	0.0365	0.0763	0.0000	289.6175	289.6175	0.0300	0.0000	290.3671
Maximum	**3.4340**	**6.3935**	**6.0405**	**0.0156**	**0.6090**	**0.2273**	**0.8364**	**0.2841**	**0.2155**	**0.4821**	**0.0000**	**1,404.6866**	**1,404.6866**	**0.1780**	**0.0000**	**1,408.8710**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.5037	5.6838	3.7175	8.6500e-003	0.3070	0.2138	0.5208	0.1311	0.1979	0.3291	0.0000	787.5383	787.5383	0.1780	0.0000	791.9874
2020	0.8112	6.3935	6.0405	0.0156	0.6090	0.2273	0.8364	0.1644	0.2155	0.3798	0.0000	1,404.6861	1,404.6861	0.1674	0.0000	1,408.8704
2021	3.4340	1.1112	1.2679	3.2200e-003	0.1482	0.0382	0.1864	0.0398	0.0365	0.0763	0.0000	289.6174	289.6174	0.0300	0.0000	290.3670
Maximum	**3.4340**	**6.3935**	**6.0405**	**0.0156**	**0.6090**	**0.2273**	**0.8364**	**0.1644**	**0.2155**	**0.3798**	**0.0000**	**1,404.6861**	**1,404.6861**	**0.1780**	**0.0000**	**1,408.8704**

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Annual

	ROG	NOx	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**	**21.27**	**0.00**	**15.70**	**31.34**	**0.00**	**16.31**	**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	**6-3-2019**	**9-2-2019**	2.6036	2.6036
2	**9-3-2019**	**12-2-2019**	2.7867	2.7867
3	**12-3-2019**	**3-2-2020**	2.0759	2.0759
4	**3-3-2020**	**6-2-2020**	1.7881	1.7881
5	**6-3-2020**	**9-2-2020**	1.7930	1.7930
6	**9-3-2020**	**12-2-2020**	1.7629	1.7629
7	**12-3-2020**	**3-2-2021**	2.9838	2.9838
8	**3-3-2021**	**6-2-2021**	2.0899	2.0899
9	**6-3-2021**	**9-2-2021**	0.0222	0.0222
		Highest	2.9838	2.9838

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	2.5836	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Energy	0.1789	1.6265	1.3663	9.7600e-003		0.1236	0.1236		0.1236	0.1236	0.0000	8,688.4747	8,688.4747	0.3195	0.0916	8,723.7455
Mobile	2.9145	26.3271	29.5940	0.1105	6.3915	0.0778	6.4693	1.7170	0.0733	1.7904	0.0000	10,276.0559	10,276.0559	0.7731	0.0000	10,295.3821
Waste						0.0000	0.0000		0.0000	0.0000	387.8528	0.0000	387.8528	22.9214	0.0000	960.8889
Water						0.0000	0.0000		0.0000	0.0000	10.5697	184.1322	194.7019	1.0932	0.0272	230.1398
Total	**5.6770**	**27.9537**	**30.9721**	**0.1202**	**6.3915**	**0.2015**	**6.5930**	**1.7170**	**0.1970**	**1.9140**	**398.4225**	**19,148.6856**	**19,547.1081**	**25.1073**	**0.1188**	**20,210.1807**

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	2.5836	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Energy	0.1789	1.6265	1.3663	9.7600e-003		0.1236	0.1236		0.1236	0.1236	0.0000	8,688.4747	8,688.4747	0.3195	0.0916	8,723.7455
Mobile	2.9145	26.3271	29.5940	0.1105	6.3915	0.0778	6.4693	1.7170	0.0733	1.7904	0.0000	10,276.0559	10,276.0559	0.7731	0.0000	10,295.3821
Waste						0.0000	0.0000		0.0000	0.0000	387.8528	0.0000	387.8528	22.9214	0.0000	960.8889
Water						0.0000	0.0000		0.0000	0.0000	10.5697	184.1322	194.7019	1.0932	0.0272	230.1398
Total	**5.6770**	**27.9537**	**30.9721**	**0.1202**	**6.3915**	**0.2015**	**6.5930**	**1.7170**	**0.1970**	**1.9140**	**398.4225**	**19,148.6856**	**19,547.1081**	**25.1073**	**0.1188**	**20,210.1807**

	ROG	NOx	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

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	6/28/2019	5	20	
2	Grading	Grading	6/29/2019	11/1/2019	5	90	
3	Paving	Paving	11/1/2019	1/16/2020	5	55	
4	Building Construction	Building Construction	11/2/2019	3/5/2021	5	350	
5	Architectural Coating	Architectural Coating	1/1/2021	6/3/2021	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 17.8

Acres of Paving: 4.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 834,375; Non-Residential Outdoor: 278,125; Striped Parking Area: 16,400 (Architectural Coating – sqft)

OffRoad Equipment

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Other Material Handling Equipment	3	8.00	168	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	2	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
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	20.00	0.00	12,875.00	11.00	5.40	2.50	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	454.00	179.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	91.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0434	0.4557	0.2206	3.8000e-004		0.0239	0.0239		0.0220	0.0220	0.0000	34.1687	34.1687	0.0108	0.0000	34.4390
Total	**0.0434**	**0.4557**	**0.2206**	**3.8000e-004**	**0.1807**	**0.0239**	**0.2046**	**0.0993**	**0.0220**	**0.1213**	**0.0000**	**34.1687**	**34.1687**	**0.0108**	**0.0000**	**34.4390**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	9.9000e-004	7.5000e-004	7.3800e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.5000e-003	4.0000e-004	1.0000e-005	4.0000e-004	0.0000	1.3127	1.3127	6.0000e-005	0.0000	1.3142
Total	**9.9000e-004**	**7.5000e-004**	**7.3800e-003**	**1.0000e-005**	**1.4900e-003**	**1.0000e-005**	**1.5000e-003**	**4.0000e-004**	**1.0000e-005**	**4.0000e-004**	**0.0000**	**1.3127**	**1.3127**	**6.0000e-005**	**0.0000**	**1.3142**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0705	0.0000	0.0705	0.0387	0.0000	0.0387	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0434	0.4557	0.2206	3.8000e-004		0.0239	0.0239		0.0220	0.0220	0.0000	34.1687	34.1687	0.0108	0.0000	34.4389
Total	**0.0434**	**0.4557**	**0.2206**	**3.8000e-004**	**0.0705**	**0.0239**	**0.0944**	**0.0387**	**0.0220**	**0.0607**	**0.0000**	**34.1687**	**34.1687**	**0.0108**	**0.0000**	**34.4389**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	9.9000e-004	7.5000e-004	7.3800e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.5000e-003	4.0000e-004	1.0000e-005	4.0000e-004	0.0000	1.3127	1.3127	6.0000e-005	0.0000	1.3142
Total	**9.9000e-004**	**7.5000e-004**	**7.3800e-003**	**1.0000e-005**	**1.4900e-003**	**1.0000e-005**	**1.5000e-003**	**4.0000e-004**	**1.0000e-005**	**4.0000e-004**	**0.0000**	**1.3127**	**1.3127**	**6.0000e-005**	**0.0000**	**1.3142**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2907	0.0000	0.2907	0.1515	0.0000	0.1515	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2580	2.8972	2.0116	3.5700e-003		0.1294	0.1294		0.1191	0.1191	0.0000	320.7227	320.7227	0.1015	0.0000	323.2595
Total	**0.2580**	**2.8972**	**2.0116**	**3.5700e-003**	**0.2907**	**0.1294**	**0.4201**	**0.1515**	**0.1191**	**0.2706**	**0.0000**	**320.7227**	**320.7227**	**0.1015**	**0.0000**	**323.2595**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0203	0.8907	0.1030	1.5900e-003	0.0141	1.1300e-003	0.0152	3.8800e-003	1.0800e-003	4.9600e-003	0.0000	151.4110	151.4110	0.0239	0.0000	152.0079
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9300e-003	3.7500e-003	0.0369	7.0000e-005	7.4400e-003	5.0000e-005	7.4900e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.5636	6.5636	3.0000e-004	0.0000	6.5711
Total	**0.0252**	**0.8944**	**0.1399**	**1.6600e-003**	**0.0215**	**1.1800e-003**	**0.0227**	**5.8600e-003**	**1.1200e-003**	**6.9800e-003**	**0.0000**	**157.9745**	**157.9745**	**0.0242**	**0.0000**	**158.5790**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1134	0.0000	0.1134	0.0591	0.0000	0.0591	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2580	2.8972	2.0116	3.5700e-003		0.1294	0.1294		0.1191	0.1191	0.0000	320.7223	320.7223	0.1015	0.0000	323.2592
Total	**0.2580**	**2.8972**	**2.0116**	**3.5700e-003**	**0.1134**	**0.1294**	**0.2428**	**0.0591**	**0.1191**	**0.1782**	**0.0000**	**320.7223**	**320.7223**	**0.1015**	**0.0000**	**323.2592**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0203	0.8907	0.1030	1.5900e-003	0.0141	1.1300e-003	0.0152	3.8800e-003	1.0800e-003	4.9600e-003	0.0000	151.4110	151.4110	0.0239	0.0000	152.0079
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9300e-003	3.7500e-003	0.0369	7.0000e-005	7.4400e-003	5.0000e-005	7.4900e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.5636	6.5636	3.0000e-004	0.0000	6.5711
Total	**0.0252**	**0.8944**	**0.1399**	**1.6600e-003**	**0.0215**	**1.1800e-003**	**0.0227**	**5.8600e-003**	**1.1200e-003**	**6.9800e-003**	**0.0000**	**157.9745**	**157.9745**	**0.0242**	**0.0000**	**158.5790**

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0313	0.3278	0.3153	4.9000e-004		0.0177	0.0177		0.0163	0.0163	0.0000	44.0216	44.0216	0.0139	0.0000	44.3698
Paving	1.0200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0323**	**0.3278**	**0.3153**	**4.9000e-004**		**0.0177**	**0.0177**		**0.0163**	**0.0163**	**0.0000**	**44.0216**	**44.0216**	**0.0139**	**0.0000**	**44.3698**

3.4 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	1.7700e-003	1.3400e-003	0.0132	3.0000e-005	2.6700e-003	2.0000e-005	2.6800e-003	7.1000e-004	2.0000e-005	7.2000e-004	0.0000	2.3519	2.3519	1.1000e-004	0.0000	2.3547
Total	**1.7700e-003**	**1.3400e-003**	**0.0132**	**3.0000e-005**	**2.6700e-003**	**2.0000e-005**	**2.6800e-003**	**7.1000e-004**	**2.0000e-005**	**7.2000e-004**	**0.0000**	**2.3519**	**2.3519**	**1.1000e-004**	**0.0000**	**2.3547**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0313	0.3278	0.3153	4.9000e-004		0.0177	0.0177		0.0163	0.0163	0.0000	44.0216	44.0216	0.0139	0.0000	44.3698
Paving	1.0200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0323**	**0.3278**	**0.3153**	**4.9000e-004**		**0.0177**	**0.0177**		**0.0163**	**0.0163**	**0.0000**	**44.0216**	**44.0216**	**0.0139**	**0.0000**	**44.3698**

3.4 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	1.7700e-003	1.3400e-003	0.0132	3.0000e-005	2.6700e-003	2.0000e-005	2.6800e-003	7.1000e-004	2.0000e-005	7.2000e-004	0.0000	2.3519	2.3519	1.1000e-004	0.0000	2.3547
Total	**1.7700e-003**	**1.3400e-003**	**0.0132**	**3.0000e-005**	**2.6700e-003**	**2.0000e-005**	**2.6800e-003**	**7.1000e-004**	**2.0000e-005**	**7.2000e-004**	**0.0000**	**2.3519**	**2.3519**	**1.1000e-004**	**0.0000**	**2.3547**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.1400e-003	0.0844	0.0879	1.4000e-004		4.5200e-003	4.5200e-003		4.1600e-003	4.1600e-003	0.0000	12.0169	12.0169	3.8900e-003	0.0000	12.1141
Paving	2.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.4300e-003**	**0.0844**	**0.0879**	**1.4000e-004**		**4.5200e-003**	**4.5200e-003**		**4.1600e-003**	**4.1600e-003**	**0.0000**	**12.0169**	**12.0169**	**3.8900e-003**	**0.0000**	**12.1141**

3.4 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	4.6000e-004	3.4000e-004	3.3700e-003	1.0000e-005	7.4000e-004	0.0000	7.5000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.6355	0.6355	3.0000e-005	0.0000	0.6362
Total	**4.6000e-004**	**3.4000e-004**	**3.3700e-003**	**1.0000e-005**	**7.4000e-004**	**0.0000**	**7.5000e-004**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**0.6355**	**0.6355**	**3.0000e-005**	**0.0000**	**0.6362**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.1400e-003	0.0844	0.0879	1.4000e-004		4.5200e-003	4.5200e-003		4.1600e-003	4.1600e-003	0.0000	12.0169	12.0169	3.8900e-003	0.0000	12.1141
Paving	2.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.4300e-003**	**0.0844**	**0.0879**	**1.4000e-004**		**4.5200e-003**	**4.5200e-003**		**4.1600e-003**	**4.1600e-003**	**0.0000**	**12.0169**	**12.0169**	**3.8900e-003**	**0.0000**	**12.1141**

3.4 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	4.6000e-004	3.4000e-004	3.3700e-003	1.0000e-005	7.4000e-004	0.0000	7.5000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.6355	0.6355	3.0000e-005	0.0000	0.6362
Total	**4.6000e-004**	**3.4000e-004**	**3.3700e-003**	**1.0000e-005**	**7.4000e-004**	**0.0000**	**7.5000e-004**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**0.6355**	**0.6355**	**3.0000e-005**	**0.0000**	**0.6362**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0763	0.6665	0.5187	8.6000e-004		0.0386	0.0386		0.0366	0.0366	0.0000	74.7157	74.7157	0.0165	0.0000	75.1270
Total	**0.0763**	**0.6665**	**0.5187**	**8.6000e-004**		**0.0386**	**0.0386**		**0.0366**	**0.0366**	**0.0000**	**74.7157**	**74.7157**	**0.0165**	**0.0000**	**75.1270**

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0136	0.4004	0.0998	8.7000e-004	0.0187	2.4400e-003	0.0211	5.3900e-003	2.3300e-003	7.7300e-003	0.0000	82.7411	82.7411	7.7400e-003	0.0000	82.9347
Worker	0.0523	0.0397	0.3910	7.7000e-004	0.0788	5.2000e-004	0.0793	0.0209	4.8000e-004	0.0214	0.0000	69.5299	69.5299	3.2100e-003	0.0000	69.6101
Total	**0.0658**	**0.4402**	**0.4908**	**1.6400e-003**	**0.0975**	**2.9600e-003**	**0.1005**	**0.0263**	**2.8100e-003**	**0.0291**	**0.0000**	**152.2710**	**152.2710**	**0.0110**	**0.0000**	**152.5448**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0763	0.6665	0.5187	8.6000e-004		0.0386	0.0386		0.0366	0.0366	0.0000	74.7156	74.7156	0.0165	0.0000	75.1269
Total	**0.0763**	**0.6665**	**0.5187**	**8.6000e-004**		**0.0386**	**0.0386**		**0.0366**	**0.0366**	**0.0000**	**74.7156**	**74.7156**	**0.0165**	**0.0000**	**75.1269**

3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0136	0.4004	0.0998	8.7000e-004	0.0187	2.4400e-003	0.0211	5.3900e-003	2.3300e-003	7.7300e-003	0.0000	82.7411	82.7411	7.7400e-003	0.0000	82.9347
Worker	0.0523	0.0397	0.3910	7.7000e-004	0.0788	5.2000e-004	0.0793	0.0209	4.8000e-004	0.0214	0.0000	69.5299	69.5299	3.2100e-003	0.0000	69.6101
Total	**0.0658**	**0.4402**	**0.4908**	**1.6400e-003**	**0.0975**	**2.9600e-003**	**0.1005**	**0.0263**	**2.8100e-003**	**0.0291**	**0.0000**	**152.2710**	**152.2710**	**0.0110**	**0.0000**	**152.5448**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4268	3.7929	3.1665	5.3800e-003		0.2089	0.2089		0.1981	0.1981	0.0000	460.2145	460.2145	0.1006	0.0000	462.7302
Total	**0.4268**	**3.7929**	**3.1665**	**5.3800e-003**		**0.2089**	**0.2089**		**0.1981**	**0.1981**	**0.0000**	**460.2145**	**460.2145**	**0.1006**	**0.0000**	**462.7302**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0739	2.2921	0.5586	5.3900e-003	0.1166	0.0107	0.1274	0.0337	0.0103	0.0439	0.0000	511.8764	511.8764	0.0448	0.0000	512.9954
Worker	0.3017	0.2237	2.2241	4.6600e-003	0.4917	3.1400e-003	0.4948	0.1305	2.9000e-003	0.1334	0.0000	419.9433	419.9433	0.0181	0.0000	420.3951
Total	**0.3756**	**2.5159**	**2.7827**	**0.0101**	**0.6083**	**0.0139**	**0.6222**	**0.1642**	**0.0132**	**0.1774**	**0.0000**	**931.8197**	**931.8197**	**0.0628**	**0.0000**	**933.3905**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4268	3.7929	3.1665	5.3800e-003		0.2089	0.2089		0.1981	0.1981	0.0000	460.2139	460.2139	0.1006	0.0000	462.7296
Total	**0.4268**	**3.7929**	**3.1665**	**5.3800e-003**		**0.2089**	**0.2089**		**0.1981**	**0.1981**	**0.0000**	**460.2139**	**460.2139**	**0.1006**	**0.0000**	**462.7296**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0739	2.2921	0.5586	5.3900e-003	0.1166	0.0107	0.1274	0.0337	0.0103	0.0439	0.0000	511.8764	511.8764	0.0448	0.0000	512.9954
Worker	0.3017	0.2237	2.2241	4.6600e-003	0.4917	3.1400e-003	0.4948	0.1305	2.9000e-003	0.1334	0.0000	419.9433	419.9433	0.0181	0.0000	420.3951
Total	**0.3756**	**2.5159**	**2.7827**	**0.0101**	**0.6083**	**0.0139**	**0.6222**	**0.1642**	**0.0132**	**0.1774**	**0.0000**	**931.8197**	**931.8197**	**0.0628**	**0.0000**	**933.3905**

3.5 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	0.0672	0.6061	0.5454	9.5000e-004		0.0316	0.0316		0.0299	0.0299	0.0000	80.8064	80.8064	0.0174	0.0000	81.2409
Total	**0.0672**	**0.6061**	**0.5454**	**9.5000e-004**		**0.0316**	**0.0316**		**0.0299**	**0.0299**	**0.0000**	**80.8064**	**80.8064**	**0.0174**	**0.0000**	**81.2409**

3.5 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	0.0114	0.3684	0.0882	9.4000e-004	0.0205	6.6000e-004	0.0211	5.9100e-003	6.4000e-004	6.5400e-003	0.0000	89.3677	89.3677	7.3400e-003	0.0000	89.5513
Worker	0.0494	0.0357	0.3612	7.9000e-004	0.0863	5.4000e-004	0.0869	0.0229	5.0000e-004	0.0234	0.0000	71.2496	71.2496	2.9100e-003	0.0000	71.3223
Total	**0.0608**	**0.4040**	**0.4494**	**1.7300e-003**	**0.1068**	**1.2000e-003**	**0.1080**	**0.0288**	**1.1400e-003**	**0.0300**	**0.0000**	**160.6173**	**160.6173**	**0.0103**	**0.0000**	**160.8735**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0672	0.6061	0.5454	9.5000e-004		0.0316	0.0316		0.0299	0.0299	0.0000	80.8063	80.8063	0.0174	0.0000	81.2408
Total	**0.0672**	**0.6061**	**0.5454**	**9.5000e-004**		**0.0316**	**0.0316**		**0.0299**	**0.0299**	**0.0000**	**80.8063**	**80.8063**	**0.0174**	**0.0000**	**81.2408**

3.5 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	0.0114	0.3684	0.0882	9.4000e-004	0.0205	6.6000e-004	0.0211	5.9100e-003	6.4000e-004	6.5400e-003	0.0000	89.3677	89.3677	7.3400e-003	0.0000	89.5513
Worker	0.0494	0.0357	0.3612	7.9000e-004	0.0863	5.4000e-004	0.0869	0.0229	5.0000e-004	0.0234	0.0000	71.2496	71.2496	2.9100e-003	0.0000	71.3223
Total	**0.0608**	**0.4040**	**0.4494**	**1.7300e-003**	**0.1068**	**1.2000e-003**	**0.1080**	**0.0288**	**1.1400e-003**	**0.0300**	**0.0000**	**160.6173**	**160.6173**	**0.0103**	**0.0000**	**160.8735**

3.6 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	3.2703					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0840	0.1000	1.6000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	14.0429	14.0429	9.6000e-004	0.0000	14.0670
Total	**3.2823**	**0.0840**	**0.1000**	**1.6000e-004**		**5.1800e-003**	**5.1800e-003**		**5.1800e-003**	**5.1800e-003**	**0.0000**	**14.0429**	**14.0429**	**9.6000e-004**	**0.0000**	**14.0670**

3.6 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	0.0237	0.0171	0.1731	3.8000e-004	0.0414	2.6000e-004	0.0416	0.0110	2.4000e-004	0.0112	0.0000	34.1509	34.1509	1.3900e-003	0.0000	34.1858
Total	**0.0237**	**0.0171**	**0.1731**	**3.8000e-004**	**0.0414**	**2.6000e-004**	**0.0416**	**0.0110**	**2.4000e-004**	**0.0112**	**0.0000**	**34.1509**	**34.1509**	**1.3900e-003**	**0.0000**	**34.1858**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.2703					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0840	0.1000	1.6000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	14.0429	14.0429	9.6000e-004	0.0000	14.0670
Total	**3.2823**	**0.0840**	**0.1000**	**1.6000e-004**		**5.1800e-003**	**5.1800e-003**		**5.1800e-003**	**5.1800e-003**	**0.0000**	**14.0429**	**14.0429**	**9.6000e-004**	**0.0000**	**14.0670**

3.6 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	0.0237	0.0171	0.1731	3.8000e-004	0.0414	2.6000e-004	0.0416	0.0110	2.4000e-004	0.0112	0.0000	34.1509	34.1509	1.3900e-003	0.0000	34.1858
Total	**0.0237**	**0.0171**	**0.1731**	**3.8000e-004**	**0.0414**	**2.6000e-004**	**0.0416**	**0.0110**	**2.4000e-004**	**0.0112**	**0.0000**	**34.1509**	**34.1509**	**1.3900e-003**	**0.0000**	**34.1858**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.9145	26.3271	29.5940	0.1105	6.3915	0.0778	6.4693	1.7170	0.0733	1.7904	0.0000	10,276.0559	10,276.0559	0.7731	0.0000	10,295.3821
Unmitigated	2.9145	26.3271	29.5940	0.1105	6.3915	0.0778	6.4693	1.7170	0.0733	1.7904	0.0000	10,276.0559	10,276.0559	0.7731	0.0000	10,295.3821

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	689.96	689.96	689.96	552,288	552,288
Hotel	3,587.22	3,587.22	3587.22	8,609,430	8,609,430
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	2,916.78	2,916.78	2916.78	7,149,740	7,149,740
Regional Shopping Center	91.80	91.80	91.80	199,667	199,667
Total	7,285.76	7,285.76	7,285.76	16,511,125	16,511,125

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
Enclosed Parking with Elevator	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	12.50	4.20	5.40	8.50	72.50	19.00	37	20	43
Hotel	12.50	4.20	25.00	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	12.50	4.20	25.00	33.00	48.00	19.00	52	39	9
Regional Shopping Center	12.50	4.20	25.00	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
High Turnover (Sit Down Restaurant)	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Hotel	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Other Asphalt Surfaces	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Recreational Swimming Pool	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Regional Shopping Center	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,917.8048	6,917.8048	0.2856	0.0591	6,942.5535
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,917.8048	6,917.8048	0.2856	0.0591	6,942.5535
NaturalGas Mitigated	0.1789	1.6265	1.3663	9.7600e-003		0.1236	0.1236		0.1236	0.1236	0.0000	1,770.6699	1,770.6699	0.0339	0.0325	1,781.1921
NaturalGas Unmitigated	0.1789	1.6265	1.3663	9.7600e-003		0.1236	0.1236		0.1236	0.1236	0.0000	1,770.6699	1,770.6699	0.0339	0.0325	1,781.1921

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	3.0762e+006	0.0166	0.1508	0.1267	9.0000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	164.1578	164.1578	3.1500e-003	3.0100e-003	165.1333
Hotel	3.0005e+007	0.1618	1.4708	1.2355	8.8200e-003		0.1118	0.1118		0.1118	0.1118	0.0000	1,601.1811	1,601.1811	0.0307	0.0294	1,610.6961
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	99900	5.4000e-004	4.9000e-003	4.1100e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.3310	5.3310	1.0000e-004	1.0000e-004	5.3627
Total		**0.1789**	**1.6265**	**1.3663**	**9.7500e-003**		**0.1236**	**0.1236**		**0.1236**	**0.1236**	**0.0000**	**1,770.6699**	**1,770.6699**	**0.0339**	**0.0325**	**1,781.1921**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	3.0762e+006	0.0166	0.1508	0.1267	9.0000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	164.1578	164.1578	3.1500e-003	3.0100e-003	165.1333
Hotel	3.0005e+007	0.1618	1.4708	1.2355	8.8200e-003		0.1118	0.1118		0.1118	0.1118	0.0000	1,601.1811	1,601.1811	0.0307	0.0294	1,610.6961
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	99900	5.4000e-004	4.9000e-003	4.1100e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.3310	5.3310	1.0000e-004	1.0000e-004	5.3627
Total		**0.1789**	**1.6265**	**1.3663**	**9.7500e-003**		**0.1236**	**0.1236**		**0.1236**	**0.1236**	**0.0000**	**1,770.6699**	**1,770.6699**	**0.0339**	**0.0325**	**1,781.1921**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	1.196e+006	381.0712	0.0157	3.2500e-003	382.4345
High Turnover (Sit Down Restaurant)	535725	170.6935	7.0500e-003	1.4600e-003	171.3041
Hotel	9.22e+006	2,937.6895	0.1213	0.0251	2,948.1992
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.076e+007	3,428.3506	0.1415	0.0293	3,440.6156
Total		**6,917.8048**	**0.2856**	**0.0591**	**6,942.5535**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	1.196e+006	381.0712	0.0157	3.2500e-003	382.4345
High Turnover (Sit Down Restaurant)	535725	170.6935	7.0500e-003	1.4600e-003	171.3041
Hotel	9.22e+006	2,937.6895	0.1213	0.0251	2,948.1992
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.076e+007	3,428.3506	0.1415	0.0293	3,440.6156
Total		**6,917.8048**	**0.2856**	**0.0591**	**6,942.5535**

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	2.5836	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Unmitigated	2.5836	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243

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	0.3924					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1901					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-003	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Total	**2.5836**	**1.1000e-004**	**0.0118**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.0228**	**0.0228**	**6.0000e-005**	**0.0000**	**0.0243**

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	0.3924					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1901					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-003	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0243
Total	**2.5836**	**1.1000e-004**	**0.0118**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.0228**	**0.0228**	**6.0000e-005**	**0.0000**	**0.0243**

7.0 Water Detail

7.1 Mitigation Measures Water

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	194.7019	1.0932	0.0272	230.1398
Unmitigated	194.7019	1.0932	0.0272	230.1398

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	3.41475 / 0.217963	16.0219	0.1119	2.7500e-003	19.6401
Hotel	11.1106 / 1.23452	53.9905	0.3641	8.9800e-003	65.7695
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	15.4577 / 9.47404	102.5713	0.5077	0.0127	119.0570
Regional Shopping Center	3.33326 / 2.04297	22.1183	0.1095	2.7400e-003	25.6733
Total		**194.7020**	**1.0932**	**0.0272**	**230.1398**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	3.41475 / 0.217963	16.0219	0.1119	2.7500e-003	19.6401
Hotel	11.1106 / 1.23452	53.9905	0.3641	8.9800e-003	65.7695
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	15.4577 / 9.47404	102.5713	0.5077	0.0127	119.0570
Regional Shopping Center	3.33326 / 2.04297	22.1183	0.1095	2.7400e-003	25.6733
Total		**194.7020**	**1.0932**	**0.0272**	**230.1398**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	387.8528	22.9214	0.0000	960.8889
Unmitigated	387.8528	22.9214	0.0000	960.8889

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	133.88	27.1764	1.6061	0.0000	67.3285
Hotel	239.81	48.6793	2.8769	0.0000	120.6008
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	1489.75	302.4058	17.8717	0.0000	749.1975
Regional Shopping Center	47.25	9.5913	0.5668	0.0000	23.7621
Total		**387.8528**	**22.9214**	**0.0000**	**960.8889**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	133.88	27.1764	1.6061	0.0000	67.3285
Hotel	239.81	48.6793	2.8769	0.0000	120.6008
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	1489.75	302.4058	17.8717	0.0000	749.1975
Regional Shopping Center	47.25	9.5913	0.5668	0.0000	23.7621
Total		**387.8528**	**22.9214**	**0.0000**	**960.8889**

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

DSRT SURF Proposed Project SP Buildout

Salton Sea Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	520.00	Space	3.51	208,000.00	0
Other Asphalt Surfaces	1.50	Acre	1.00	65,340.00	0
High Turnover (Sit Down Restaurant)	11.25	1000sqft	0.26	11,250.00	0
Hotel	438.00	Room	6.00	500,000.00	0
Recreational Swimming Pool	261.36	1000sqft	6.00	261,360.00	0
Regional Shopping Center	45.00	1000sqft	1.03	45,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	20
Climate Zone	15			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Summer

Project Characteristics -

Land Use - Assumptions made due to SP level information. See AQ/GHG report for assumption breakdown.

Construction Phase - Assumes a 2-year buildout

Off-road Equipment - Number of equipment increased.

Off-road Equipment - Added material handling equipment for export.

Trips and VMT - Worse case scenario haul trip is 2.5 miles north to the Classic Club.

On-road Fugitive Dust - All roads in project area are paced.

Grading - Excavation for the lagoon will require approx. 103,000 CY of export.

Architectural Coating - Use of low VOC coatings per SCAQMD Rule 1113

Vehicle Trips - Per Traffic Report, total project daily trips on a special events day = 7288. Assumes some visitors may be traveling from out of town, trip lenght increased to 25 miles.

Road Dust - All roads paved.

Construction Off-road Equipment Mitigation - Standard requirements per SCAQMD Rule 403.1 Dust Control.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	125.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	125.00
tblArchitecturalCoating	EF_Parking	150.00	125.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstructionPhase	NumDays	20.00	110.00
tblConstructionPhase	NumDays	300.00	350.00
tblConstructionPhase	NumDays	30.00	90.00
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	10.00	20.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	28.48	0.00
tblEnergyUse	NT24E	6.23	0.00

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Summer

tblEnergyUse	NT24E	2.44	0.00
tblEnergyUse	T24E	3.92	4.00
tblEnergyUse	T24E	12.38	41.00
tblEnergyUse	T24E	6.47	13.00
tblEnergyUse	T24E	4.58	233.50
tblGrading	AcresOfGrading	225.00	17.80
tblGrading	MaterialExported	0.00	103,000.00
tblLandUse	LandUseSquareFeet	635,976.00	500,000.00
tblLandUse	LotAcreage	4.68	3.51
tblLandUse	LotAcreage	1.50	1.00
tblLandUse	LotAcreage	14.60	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00

tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblRoadDust	RoadPercentPave	50	100
tblTripsAndVMT	HaulingTripLength	20.00	2.50
tblTripsAndVMT	WorkerTripNumber	28.00	20.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	ST_TR	158.37	61.33
tblVehicleTrips	ST_TR	9.10	11.16
tblVehicleTrips	ST_TR	49.97	2.04
tblVehicleTrips	SU_TR	131.84	61.33
tblVehicleTrips	SU_TR	5.95	8.19
tblVehicleTrips	SU_TR	13.60	11.16
tblVehicleTrips	SU_TR	25.24	2.04
tblVehicleTrips	WD_TR	127.15	61.33
tblVehicleTrips	WD_TR	8.17	8.19
tblVehicleTrips	WD_TR	33.82	11.16
tblVehicleTrips	WD_TR	42.70	2.04

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					
2019	8.8450	99.7316	67.8518	0.1483	18.2169	3.7267	20.6082	9.9706	3.4295	12.1707	0.0000	14,784.9732	14,784.9732	3.7696	0.0000	14,839.1529
2020	8.0564	62.1293	64.7387	0.1466	4.8229	2.4536	7.2765	1.2998	2.3056	3.6054	0.0000	14,517.3833	14,517.3833	2.1017	0.0000	14,569.9264
2021	66.1554	45.6644	52.6979	0.1315	5.4588	1.5232	6.9820	1.4685	1.4487	2.9171	0.0000	13,063.1110	13,063.1110	1.3809	0.0000	13,097.6326
Maximum	**66.1554**	**99.7316**	**67.8518**	**0.1483**	**18.2169**	**3.7267**	**20.6082**	**9.9706**	**3.4295**	**12.1707**	**0.0000**	**14,784.9732**	**14,784.9732**	**3.7696**	**0.0000**	**14,839.1529**

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					
2019	8.8450	99.7316	67.8518	0.1483	7.1964	3.7267	9.5878	3.9129	3.4295	6.1129	0.0000	14,784.9732	14,784.9732	3.7696	0.0000	14,839.1529
2020	8.0564	62.1293	64.7387	0.1466	4.8229	2.4536	7.2765	1.2998	2.3056	3.6054	0.0000	14,517.3833	14,517.3833	2.1017	0.0000	14,569.9264
2021	66.1554	45.6644	52.6979	0.1315	5.4588	1.5232	6.9820	1.4685	1.4487	2.9171	0.0000	13,063.1110	13,063.1110	1.3809	0.0000	13,097.6326
Maximum	**66.1554**	**99.7316**	**67.8518**	**0.1483**	**7.1964**	**3.7267**	**9.5878**	**3.9129**	**3.4295**	**6.1129**	**0.0000**	**14,784.9732**	**14,784.9732**	**3.7696**	**0.0000**	**14,839.1529**

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Summer

	ROG	NOx	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**	**38.67**	**0.00**	**31.61**	**47.55**	**0.00**	**32.41**	**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	14.1631	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Energy	0.9804	8.9125	7.4865	0.0535		0.6774	0.6774		0.6774	0.6774		10,694.9557	10,694.9557	0.2050	0.1961	10,758.5105
Mobile	19.7672	144.0080	191.0210	0.6449	35.5286	0.4236	35.9522	9.5351	0.3990	9.9341		66,026.2820	66,026.2820	4.6914		66,143.5672
Total	**34.9107**	**152.9217**	**198.6384**	**0.6984**	**35.5286**	**1.1014**	**36.6301**	**9.5351**	**1.0768**	**10.6119**		**76,721.5172**	**76,721.5172**	**4.8971**	**0.1961**	**76,902.3757**

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	14.1631	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Energy	0.9804	8.9125	7.4865	0.0535		0.6774	0.6774		0.6774	0.6774		10,694.9557	10,694.9557	0.2050	0.1961	10,758.5105
Mobile	19.7672	144.0080	191.0210	0.6449	35.5286	0.4236	35.9522	9.5351	0.3990	9.9341		66,026.2820	66,026.2820	4.6914		66,143.5672
Total	**34.9107**	**152.9217**	**198.6384**	**0.6984**	**35.5286**	**1.1014**	**36.6301**	**9.5351**	**1.0768**	**10.6119**		**76,721.5172**	**76,721.5172**	**4.8971**	**0.1961**	**76,902.3757**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	6/28/2019	5	20	
2	Grading	Grading	6/29/2019	11/1/2019	5	90	
3	Paving	Paving	11/1/2019	1/16/2020	5	55	
4	Building Construction	Building Construction	11/2/2019	3/5/2021	5	350	
5	Architectural Coating	Architectural Coating	1/1/2021	6/3/2021	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 17.8

Acres of Paving: 4.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 834,375; Non-Residential Outdoor: 278,125; Striped Parking Area: 16,400 (Architectural Coating – sqft)

OffRoad Equipment

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Other Material Handling Equipment	3	8.00	168	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	2	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
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	20.00	0.00	12,875.00	11.00	5.40	2.50	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	454.00	179.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	91.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**		**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1179	0.0742	0.9228	1.6100e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		160.0181	160.0181	7.7700e-003		160.2123
Total	**0.1179**	**0.0742**	**0.9228**	**1.6100e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**160.0181**	**160.0181**	**7.7700e-003**		**160.2123**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**7.0458**	**2.3904**	**9.4362**	**3.8730**	**2.1991**	**6.0721**	**0.0000**	**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1179	0.0742	0.9228	1.6100e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		160.0181	160.0181	7.7700e-003		160.2123
Total	**0.1179**	**0.0742**	**0.9228**	**1.6100e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**160.0181**	**160.0181**	**7.7700e-003**		**160.2123**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4598	0.0000	6.4598	3.3674	0.0000	3.3674			0.0000			0.0000
Off-Road	5.7331	64.3823	44.7021	0.0793		2.8762	2.8762		2.6461	2.6461		7,856.3615	7,856.3615	2.4857		7,918.5032
Total	**5.7331**	**64.3823**	**44.7021**	**0.0793**	**6.4598**	**2.8762**	**9.3359**	**3.3674**	**2.6461**	**6.0135**		**7,856.3615**	**7,856.3615**	**2.4857**		**7,918.5032**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4298	19.9610	1.9030	0.0367	0.3162	0.0241	0.3402	0.0870	0.0230	0.1100		3,855.8096	3,855.8096	0.5547		3,869.6770
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1310	0.0824	1.0254	1.7900e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		177.7979	177.7979	8.6300e-003		178.0136
Total	**0.5608**	**20.0434**	**2.9284**	**0.0385**	**0.4835**	**0.0252**	**0.5087**	**0.1313**	**0.0240**	**0.1554**		**4,033.6074**	**4,033.6074**	**0.5633**		**4,047.6906**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5193	0.0000	2.5193	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	5.7331	64.3823	44.7021	0.0793		2.8762	2.8762		2.6461	2.6461	0.0000	7,856.3615	7,856.3615	2.4857		7,918.5032
Total	**5.7331**	**64.3823**	**44.7021**	**0.0793**	**2.5193**	**2.8762**	**5.3955**	**1.3133**	**2.6461**	**3.9593**	**0.0000**	**7,856.3615**	**7,856.3615**	**2.4857**		**7,918.5032**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4298	19.9610	1.9030	0.0367	0.3162	0.0241	0.3402	0.0870	0.0230	0.1100		3,855.8096	3,855.8096	0.5547		3,869.6770
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1310	0.0824	1.0254	1.7900e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		177.7979	177.7979	8.6300e-003		178.0136
Total	**0.5608**	**20.0434**	**2.9284**	**0.0385**	**0.4835**	**0.0252**	**0.5087**	**0.1313**	**0.0240**	**0.1554**		**4,033.6074**	**4,033.6074**	**0.5633**		**4,047.6906**

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5021**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.4 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0983	0.0618	0.7690	1.3400e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		133.3484	133.3484	6.4700e-003		133.5102
Total	**0.0983**	**0.0618**	**0.7690**	**1.3400e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**133.3484**	**133.3484**	**6.4700e-003**		**133.5102**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5021**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.4 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0983	0.0618	0.7690	1.3400e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		133.3484	133.3484	6.4700e-003		133.5102
Total	**0.0983**	**0.0618**	**0.7690**	**1.3400e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**133.3484**	**133.3484**	**6.4700e-003**		**133.5102**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4042**	**14.0656**	**14.6521**	**0.0228**		**0.7528**	**0.7528**		**0.6926**	**0.6926**		**2,207.7334**	**2,207.7334**	**0.7140**		**2,225.5841**

3.4 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0907	0.0559	0.7018	1.3000e-003	0.1255	7.9000e-004	0.1263	0.0333	7.3000e-004	0.0340		129.1118	129.1118	5.8400e-003		129.2577
Total	**0.0907**	**0.0559**	**0.7018**	**1.3000e-003**	**0.1255**	**7.9000e-004**	**0.1263**	**0.0333**	**7.3000e-004**	**0.0340**		**129.1118**	**129.1118**	**5.8400e-003**		**129.2577**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4042**	**14.0656**	**14.6521**	**0.0228**		**0.7528**	**0.7528**		**0.6926**	**0.6926**	**0.0000**	**2,207.7334**	**2,207.7334**	**0.7140**		**2,225.5841**

3.4 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0907	0.0559	0.7018	1.3000e-003	0.1255	7.9000e-004	0.1263	0.0333	7.3000e-004	0.0340		129.1118	129.1118	5.8400e-003		129.2577
Total	**0.0907**	**0.0559**	**0.7018**	**1.3000e-003**	**0.1255**	**7.9000e-004**	**0.1263**	**0.0333**	**7.3000e-004**	**0.0340**		**129.1118**	**129.1118**	**5.8400e-003**		**129.2577**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6314	31.7371	24.7005	0.0411		1.8382	1.8382		1.7432	1.7432		3,921.9017	3,921.9017	0.8636		3,943.4922
Total	**3.6314**	**31.7371**	**24.7005**	**0.0411**		**1.8382**	**1.8382**		**1.7432**	**1.7432**		**3,921.9017**	**3,921.9017**	**0.8636**		**3,943.4922**

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6395	18.8684	4.4418	0.0424	0.8990	0.1152	1.0141	0.2590	0.1102	0.3692		4,436.7089	4,436.7089	0.3871		4,446.3868
Worker	2.9738	1.8708	23.2758	0.0407	3.7985	0.0246	3.8231	1.0075	0.0227	1.0302		4,036.0117	4,036.0117	0.1959		4,040.9090
Total	**3.6133**	**20.7392**	**27.7175**	**0.0831**	**4.6975**	**0.1398**	**4.8372**	**1.2665**	**0.1328**	**1.3994**		**8,472.7206**	**8,472.7206**	**0.5830**		**8,487.2958**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.6314	31.7371	24.7005	0.0411		1.8382	1.8382		1.7432	1.7432	0.0000	3,921.9017	3,921.9017	0.8636		3,943.4922
Total	**3.6314**	**31.7371**	**24.7005**	**0.0411**		**1.8382**	**1.8382**		**1.7432**	**1.7432**	**0.0000**	**3,921.9017**	**3,921.9017**	**0.8636**		**3,943.4922**

3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6395	18.8684	4.4418	0.0424	0.8990	0.1152	1.0141	0.2590	0.1102	0.3692		4,436.7089	4,436.7089	0.3871		4,446.3868
Worker	2.9738	1.8708	23.2758	0.0407	3.7985	0.0246	3.8231	1.0075	0.0227	1.0302		4,036.0117	4,036.0117	0.1959		4,040.9090
Total	**3.6133**	**20.7392**	**27.7175**	**0.0831**	**4.6975**	**0.1398**	**4.8372**	**1.2665**	**0.1328**	**1.3994**		**8,472.7206**	**8,472.7206**	**0.5830**		**8,487.2958**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.2577	28.9536	24.1720	0.0411		1.5947	1.5947		1.5124	1.5124		3,872.5163	3,872.5163	0.8467		3,893.6848
Total	**3.2577**	**28.9536**	**24.1720**	**0.0411**		**1.5947**	**1.5947**		**1.5124**	**1.5124**		**3,872.5163**	**3,872.5163**	**0.8467**		**3,893.6848**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5579	17.3638	3.9732	0.0420	0.8990	0.0813	0.9803	0.2590	0.0778	0.3368		4,400.2394	4,400.2394	0.3585		4,409.2007
Worker	2.7458	1.6905	21.2396	0.0394	3.7985	0.0240	3.8225	1.0075	0.0221	1.0296		3,907.7824	3,907.7824	0.1767		3,912.1991
Total	**3.3037**	**19.0543**	**25.2128**	**0.0814**	**4.6974**	**0.1053**	**4.8028**	**1.2665**	**0.0999**	**1.3664**		**8,308.0218**	**8,308.0218**	**0.5351**		**8,321.3999**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.2577	28.9536	24.1720	0.0411		1.5947	1.5947		1.5124	1.5124	0.0000	3,872.5163	3,872.5163	0.8467		3,893.6848
Total	**3.2577**	**28.9536**	**24.1720**	**0.0411**		**1.5947**	**1.5947**		**1.5124**	**1.5124**	**0.0000**	**3,872.5163**	**3,872.5163**	**0.8467**		**3,893.6848**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5579	17.3638	3.9732	0.0420	0.8990	0.0813	0.9803	0.2590	0.0778	0.3368		4,400.2394	4,400.2394	0.3585		4,409.2007
Worker	2.7458	1.6905	21.2396	0.0394	3.7985	0.0240	3.8225	1.0075	0.0221	1.0296		3,907.7824	3,907.7824	0.1767		3,912.1991
Total	**3.3037**	**19.0543**	**25.2128**	**0.0814**	**4.6974**	**0.1053**	**4.8028**	**1.2665**	**0.0999**	**1.3664**		**8,308.0218**	**8,308.0218**	**0.5351**		**8,321.3999**

3.5 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	2.9223	26.3503	23.7137	0.0411		1.3727	1.3727		1.3016	1.3016		3,872.7726	3,872.7726	0.8329		3,893.5962
Total	**2.9223**	**26.3503**	**23.7137**	**0.0411**		**1.3727**	**1.3727**		**1.3016**	**1.3016**		**3,872.7726**	**3,872.7726**	**0.8329**		**3,893.5962**

3.5 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	0.4913	15.9443	3.5592	0.0418	0.8989	0.0283	0.9272	0.2590	0.0271	0.2861		4,375.6536	4,375.6536	0.3346		4,384.0190
Worker	2.5518	1.5353	19.6657	0.0380	3.7985	0.0234	3.8219	1.0075	0.0216	1.0291		3,776.3109	3,776.3109	0.1616		3,780.3510
Total	**3.0431**	**17.4795**	**23.2249**	**0.0798**	**4.6974**	**0.0517**	**4.7491**	**1.2665**	**0.0486**	**1.3151**		**8,151.9645**	**8,151.9645**	**0.4962**		**8,164.3700**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.9223	26.3503	23.7137	0.0411		1.3727	1.3727		1.3016	1.3016	0.0000	3,872.7726	3,872.7726	0.8329		3,893.5962
Total	**2.9223**	**26.3503**	**23.7137**	**0.0411**		**1.3727**	**1.3727**		**1.3016**	**1.3016**	**0.0000**	**3,872.7726**	**3,872.7726**	**0.8329**		**3,893.5962**

3.5 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	0.4913	15.9443	3.5592	0.0418	0.8989	0.0283	0.9272	0.2590	0.0271	0.2861		4,375.6536	4,375.6536	0.3346		4,384.0190
Worker	2.5518	1.5353	19.6657	0.0380	3.7985	0.0234	3.8219	1.0075	0.0216	1.0291		3,776.3109	3,776.3109	0.1616		3,780.3510
Total	**3.0431**	**17.4795**	**23.2249**	**0.0798**	**4.6974**	**0.0517**	**4.7491**	**1.2665**	**0.0486**	**1.3151**		**8,151.9645**	**8,151.9645**	**0.4962**		**8,164.3700**

3.6 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	59.4597					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	**59.6786**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.5115	0.3077	3.9418	7.6200e-003	0.7614	4.6900e-003	0.7661	0.2020	4.3200e-003	0.2063		756.9258	756.9258	0.0324		757.7356
Total	**0.5115**	**0.3077**	**3.9418**	**7.6200e-003**	**0.7614**	**4.6900e-003**	**0.7661**	**0.2020**	**4.3200e-003**	**0.2063**		**756.9258**	**756.9258**	**0.0324**		**757.7356**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	59.4597					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	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**59.6786**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.5115	0.3077	3.9418	7.6200e-003	0.7614	4.6900e-003	0.7661	0.2020	4.3200e-003	0.2063		756.9258	756.9258	0.0324		757.7356
Total	**0.5115**	**0.3077**	**3.9418**	**7.6200e-003**	**0.7614**	**4.6900e-003**	**0.7661**	**0.2020**	**4.3200e-003**	**0.2063**		**756.9258**	**756.9258**	**0.0324**		**757.7356**

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	19.7672	144.0080	191.0210	0.6449	35.5286	0.4236	35.9522	9.5351	0.3990	9.9341		66,026.2820	66,026.2820	4.6914		66,143.5672
Unmitigated	19.7672	144.0080	191.0210	0.6449	35.5286	0.4236	35.9522	9.5351	0.3990	9.9341		66,026.2820	66,026.2820	4.6914		66,143.5672

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	689.96	689.96	689.96	552,288	552,288
Hotel	3,587.22	3,587.22	3587.22	8,609,430	8,609,430
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	2,916.78	2,916.78	2916.78	7,149,740	7,149,740
Regional Shopping Center	91.80	91.80	91.80	199,667	199,667
Total	7,285.76	7,285.76	7,285.76	16,511,125	16,511,125

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
Enclosed Parking with Elevator	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	12.50	4.20	5.40	8.50	72.50	19.00	37	20	43
Hotel	12.50	4.20	25.00	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	12.50	4.20	25.00	33.00	48.00	19.00	52	39	9
Regional Shopping Center	12.50	4.20	25.00	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
High Turnover (Sit Down Restaurant)	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Hotel	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Other Asphalt Surfaces	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Recreational Swimming Pool	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Regional Shopping Center	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9804	8.9125	7.4865	0.0535		0.6774	0.6774		0.6774	0.6774		10,694.9557	10,694.9557	0.2050	0.1961	10,758.5105
NaturalGas Unmitigated	0.9804	8.9125	7.4865	0.0535		0.6774	0.6774		0.6774	0.6774		10,694.9557	10,694.9557	0.2050	0.1961	10,758.5105

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	8427.95	0.0909	0.8263	0.6941	4.9600e-003		0.0628	0.0628		0.0628	0.0628		991.5230	991.5230	0.0190	0.0182	997.4151
Hotel	82205.5	0.8865	8.0594	6.7699	0.0484		0.6125	0.6125		0.6125	0.6125		9,671.2329	9,671.2329	0.1854	0.1773	9,728.7042
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Regional Shopping Center	273.699	2.9500e-003	0.0268	0.0225	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003		32.1998	32.1998	6.2000e-004	5.9000e-004	32.3912
Total		**0.9804**	**8.9125**	**7.4865**	**0.0535**		**0.6774**	**0.6774**		**0.6774**	**0.6774**		**10,694.9557**	**10,694.9557**	**0.2050**	**0.1961**	**10,758.5105**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	8.42795	0.0909	0.8263	0.6941	4.9600e-003		0.0628	0.0628		0.0628	0.0628		991.5230	991.5230	0.0190	0.0182	997.4151
Hotel	82.2055	0.8865	8.0594	6.7699	0.0484		0.6125	0.6125		0.6125	0.6125		9,671.2329	9,671.2329	0.1854	0.1773	9,728.7042
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Regional Shopping Center	0.273699	2.9500e-003	0.0268	0.0225	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003		32.1998	32.1998	6.2000e-004	5.9000e-004	32.3912
Total		**0.9804**	**8.9125**	**7.4865**	**0.0535**		**0.6774**	**0.6774**		**0.6774**	**0.6774**		**10,694.9557**	**10,694.9557**	**0.2050**	**0.1961**	**10,758.5105**

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	14.1631	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Unmitigated	14.1631	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981

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	2.1503					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.0006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0122	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Total	**14.1631**	**1.2000e-003**	**0.1309**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**		**0.2795**	**0.2795**	**7.4000e-004**		**0.2981**

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	2.1503					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.0006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0122	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Total	**14.1631**	**1.2000e-003**	**0.1309**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**		**0.2795**	**0.2795**	**7.4000e-004**		**0.2981**

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

DSRT SURF Proposed Project SP Buildout

Salton Sea Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	520.00	Space	3.51	208,000.00	0
Other Asphalt Surfaces	1.50	Acre	1.00	65,340.00	0
High Turnover (Sit Down Restaurant)	11.25	1000sqft	0.26	11,250.00	0
Hotel	438.00	Room	6.00	500,000.00	0
Recreational Swimming Pool	261.36	1000sqft	6.00	261,360.00	0
Regional Shopping Center	45.00	1000sqft	1.03	45,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	20
Climate Zone	15			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Winter

Project Characteristics -

Land Use - Assumptions made due to SP level information. See AQ/GHG report for assumption breakdown.

Construction Phase - Assumes a 2-year buildout

Off-road Equipment - Number of equipment increased.

Off-road Equipment - Added material handling equipment for export.

Trips and VMT - Worse case scenario haul trip is 2.5 miles north to the Classic Club.

On-road Fugitive Dust - All roads in project area are paced.

Grading - Excavation for the lagoon will require approx. 103,000 CY of export.

Architectural Coating - Use of low VOC coatings per SCAQMD Rule 1113

Vehicle Trips - Per Traffic Report, total project daily trips on a special events day = 7288. Assumes some visitors may be traveling from out of town, trip lenght increased to 25 miles.

Road Dust - All roads paved.

Construction Off-road Equipment Mitigation - Standard requirements per SCAQMD Rule 403.1 Dust Control.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	125.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	125.00
tblArchitecturalCoating	EF_Parking	150.00	125.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstructionPhase	NumDays	20.00	110.00
tblConstructionPhase	NumDays	300.00	350.00
tblConstructionPhase	NumDays	30.00	90.00
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	10.00	20.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	28.48	0.00
tblEnergyUse	NT24E	6.23	0.00

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Winter

tblEnergyUse	NT24E	2.44	0.00
tblEnergyUse	T24E	3.92	4.00
tblEnergyUse	T24E	12.38	41.00
tblEnergyUse	T24E	6.47	13.00
tblEnergyUse	T24E	4.58	233.50
tblGrading	AcresOfGrading	225.00	17.80
tblGrading	MaterialExported	0.00	103,000.00
tblLandUse	LandUseSquareFeet	635,976.00	500,000.00
tblLandUse	LotAcreage	4.68	3.51
tblLandUse	LotAcreage	1.50	1.00
tblLandUse	LotAcreage	14.60	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00

tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblRoadDust	RoadPercentPave	50	100
tblTripsAndVMT	HaulingTripLength	20.00	2.50
tblTripsAndVMT	WorkerTripNumber	28.00	20.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	CNW_TL	5.40	25.00
tblVehicleTrips	ST_TR	158.37	61.33
tblVehicleTrips	ST_TR	9.10	11.16
tblVehicleTrips	ST_TR	49.97	2.04
tblVehicleTrips	SU_TR	131.84	61.33
tblVehicleTrips	SU_TR	5.95	8.19
tblVehicleTrips	SU_TR	13.60	11.16
tblVehicleTrips	SU_TR	25.24	2.04
tblVehicleTrips	WD_TR	127.15	61.33
tblVehicleTrips	WD_TR	8.17	8.19
tblVehicleTrips	WD_TR	33.82	11.16
tblVehicleTrips	WD_TR	42.70	2.04

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					
2019	8.3262	99.1314	63.4926	0.1394	18.2169	3.7294	20.6082	9.9706	3.4320	12.1707	0.0000	13,896.2979	13,896.2979	3.8393	0.0000	13,976.9019
2020	7.5859	62.1126	59.2582	0.1379	4.8229	2.4552	7.2782	1.2998	2.3072	3.6070	0.0000	13,651.0122	13,651.0122	2.1077	0.0000	13,703.7035
2021	65.6539	45.5875	46.6480	0.1221	5.4588	1.5246	6.9834	1.4685	1.4500	2.9184	0.0000	12,118.5300	12,118.5300	1.3824	0.0000	12,153.0890
Maximum	**65.6539**	**99.1314**	**63.4926**	**0.1394**	**18.2169**	**3.7294**	**20.6082**	**9.9706**	**3.4320**	**12.1707**	**0.0000**	**13,896.2979**	**13,896.2979**	**3.8393**	**0.0000**	**13,976.9019**

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					
2019	8.3262	99.1314	63.4926	0.1394	7.1964	3.7294	9.5878	3.9129	3.4320	6.1129	0.0000	13,896.2979	13,896.2979	3.8393	0.0000	13,976.9019
2020	7.5859	62.1126	59.2582	0.1379	4.8229	2.4552	7.2782	1.2998	2.3072	3.6070	0.0000	13,651.0122	13,651.0122	2.1077	0.0000	13,703.7035
2021	65.6539	45.5875	46.6480	0.1221	5.4588	1.5246	6.9834	1.4685	1.4500	2.9184	0.0000	12,118.5300	12,118.5300	1.3824	0.0000	12,153.0890
Maximum	**65.6539**	**99.1314**	**63.4926**	**0.1394**	**7.1964**	**3.7294**	**9.5878**	**3.9129**	**3.4320**	**6.1129**	**0.0000**	**13,896.2979**	**13,896.2979**	**3.8393**	**0.0000**	**13,976.9019**

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Winter

	ROG	NOx	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**	**38.67**	**0.00**	**31.60**	**47.55**	**0.00**	**32.40**	**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	14.1631	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Energy	0.9804	8.9125	7.4865	0.0535		0.6774	0.6774		0.6774	0.6774		10,694.9557	10,694.9557	0.2050	0.1961	10,758.5105
Mobile	14.4955	143.2505	156.2006	0.5775	35.5286	0.4346	35.9632	9.5351	0.4095	9.9446		59,237.8965	59,237.8965	4.8402		59,358.9017
Total	**29.6390**	**152.1642**	**163.8180**	**0.6309**	**35.5286**	**1.1124**	**36.6411**	**9.5351**	**1.0874**	**10.6225**		**69,933.1317**	**69,933.1317**	**5.0459**	**0.1961**	**70,117.7102**

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	14.1631	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Energy	0.9804	8.9125	7.4865	0.0535		0.6774	0.6774		0.6774	0.6774		10,694.9557	10,694.9557	0.2050	0.1961	10,758.5105
Mobile	14.4955	143.2505	156.2006	0.5775	35.5286	0.4346	35.9632	9.5351	0.4095	9.9446		59,237.8965	59,237.8965	4.8402		59,358.9017
Total	**29.6390**	**152.1642**	**163.8180**	**0.6309**	**35.5286**	**1.1124**	**36.6411**	**9.5351**	**1.0874**	**10.6225**		**69,933.1317**	**69,933.1317**	**5.0459**	**0.1961**	**70,117.7102**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	6/28/2019	5	20	
2	Grading	Grading	6/29/2019	11/1/2019	5	90	
3	Paving	Paving	11/1/2019	1/16/2020	5	55	
4	Building Construction	Building Construction	11/2/2019	3/5/2021	5	350	
5	Architectural Coating	Architectural Coating	1/1/2021	6/3/2021	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 17.8

Acres of Paving: 4.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 834,375; Non-Residential Outdoor: 278,125; Striped Parking Area: 16,400 (Architectural Coating – sqft)

OffRoad Equipment

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Other Material Handling Equipment	3	8.00	168	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	2	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
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	20.00	0.00	12,875.00	11.00	5.40	2.50	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	454.00	179.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	91.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**		**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0968	0.0765	0.6624	1.3500e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		134.4593	134.4593	6.1400e-003		134.6128
Total	**0.0968**	**0.0765**	**0.6624**	**1.3500e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**134.4593**	**134.4593**	**6.1400e-003**		**134.6128**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**7.0458**	**2.3904**	**9.4362**	**3.8730**	**2.1991**	**6.0721**	**0.0000**	**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0968	0.0765	0.6624	1.3500e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		134.4593	134.4593	6.1400e-003		134.6128
Total	**0.0968**	**0.0765**	**0.6624**	**1.3500e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**134.4593**	**134.4593**	**6.1400e-003**		**134.6128**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4598	0.0000	6.4598	3.3674	0.0000	3.3674			0.0000			0.0000
Off-Road	5.7331	64.3823	44.7021	0.0793		2.8762	2.8762		2.6461	2.6461		7,856.3615	7,856.3615	2.4857		7,918.5032
Total	**5.7331**	**64.3823**	**44.7021**	**0.0793**	**6.4598**	**2.8762**	**9.3359**	**3.3674**	**2.6461**	**6.0135**		**7,856.3615**	**7,856.3615**	**2.4857**		**7,918.5032**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4793	19.3562	2.8376	0.0334	0.3162	0.0267	0.3429	0.0870	0.0256	0.1125		3,506.1057	3,506.1057	0.6276		3,521.7968
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1076	0.0851	0.7361	1.5000e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		149.3992	149.3992	6.8200e-003		149.5697
Total	**0.5869**	**19.4412**	**3.5736**	**0.0349**	**0.4835**	**0.0278**	**0.5113**	**0.1313**	**0.0266**	**0.1579**		**3,655.5050**	**3,655.5050**	**0.6345**		**3,671.3666**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5193	0.0000	2.5193	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	5.7331	64.3823	44.7021	0.0793		2.8762	2.8762		2.6461	2.6461	0.0000	7,856.3615	7,856.3615	2.4857		7,918.5032
Total	**5.7331**	**64.3823**	**44.7021**	**0.0793**	**2.5193**	**2.8762**	**5.3955**	**1.3133**	**2.6461**	**3.9593**	**0.0000**	**7,856.3615**	**7,856.3615**	**2.4857**		**7,918.5032**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4793	19.3562	2.8376	0.0334	0.3162	0.0267	0.3429	0.0870	0.0256	0.1125		3,506.1057	3,506.1057	0.6276		3,521.7968
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1076	0.0851	0.7361	1.5000e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		149.3992	149.3992	6.8200e-003		149.5697
Total	**0.5869**	**19.4412**	**3.5736**	**0.0349**	**0.4835**	**0.0278**	**0.5113**	**0.1313**	**0.0266**	**0.1579**		**3,655.5050**	**3,655.5050**	**0.6345**		**3,671.3666**

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5021**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.4 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0807	0.0638	0.5520	1.1300e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		112.0494	112.0494	5.1200e-003		112.1773
Total	**0.0807**	**0.0638**	**0.5520**	**1.1300e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**112.0494**	**112.0494**	**5.1200e-003**		**112.1773**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5021**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.4 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0807	0.0638	0.5520	1.1300e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		112.0494	112.0494	5.1200e-003		112.1773
Total	**0.0807**	**0.0638**	**0.5520**	**1.1300e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**112.0494**	**112.0494**	**5.1200e-003**		**112.1773**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4042**	**14.0656**	**14.6521**	**0.0228**		**0.7528**	**0.7528**		**0.6926**	**0.6926**		**2,207.7334**	**2,207.7334**	**0.7140**		**2,225.5841**

3.4 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0747	0.0576	0.5025	1.0900e-003	0.1255	7.9000e-004	0.1263	0.0333	7.3000e-004	0.0340		108.4854	108.4854	4.6100e-003		108.6008
Total	**0.0747**	**0.0576**	**0.5025**	**1.0900e-003**	**0.1255**	**7.9000e-004**	**0.1263**	**0.0333**	**7.3000e-004**	**0.0340**		**108.4854**	**108.4854**	**4.6100e-003**		**108.6008**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4042**	**14.0656**	**14.6521**	**0.0228**		**0.7528**	**0.7528**		**0.6926**	**0.6926**	**0.0000**	**2,207.7334**	**2,207.7334**	**0.7140**		**2,225.5841**

3.4 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0747	0.0576	0.5025	1.0900e-003	0.1255	7.9000e-004	0.1263	0.0333	7.3000e-004	0.0340		108.4854	108.4854	4.6100e-003		108.6008
Total	**0.0747**	**0.0576**	**0.5025**	**1.0900e-003**	**0.1255**	**7.9000e-004**	**0.1263**	**0.0333**	**7.3000e-004**	**0.0340**		**108.4854**	**108.4854**	**4.6100e-003**		**108.6008**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6314	31.7371	24.7005	0.0411		1.8382	1.8382		1.7432	1.7432		3,921.9017	3,921.9017	0.8636		3,943.4922
Total	**3.6314**	**31.7371**	**24.7005**	**0.0411**		**1.8382**	**1.8382**		**1.7432**	**1.7432**		**3,921.9017**	**3,921.9017**	**0.8636**		**3,943.4922**

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6705	18.8638	5.2433	0.0403	0.8990	0.1173	1.0163	0.2590	0.1122	0.3712		4,213.9815	4,213.9815	0.4340		4,224.8314
Worker	2.4417	1.9305	16.7083	0.0341	3.7985	0.0246	3.8231	1.0075	0.0227	1.0302		3,391.3627	3,391.3627	0.1548		3,395.2332
Total	**3.1121**	**20.7944**	**21.9516**	**0.0744**	**4.6975**	**0.1419**	**4.8394**	**1.2665**	**0.1349**	**1.4014**		**7,605.3443**	**7,605.3443**	**0.5888**		**7,620.0647**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.6314	31.7371	24.7005	0.0411		1.8382	1.8382		1.7432	1.7432	0.0000	3,921.9017	3,921.9017	0.8636		3,943.4922
Total	**3.6314**	**31.7371**	**24.7005**	**0.0411**		**1.8382**	**1.8382**		**1.7432**	**1.7432**	**0.0000**	**3,921.9017**	**3,921.9017**	**0.8636**		**3,943.4922**

3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6705	18.8638	5.2433	0.0403	0.8990	0.1173	1.0163	0.2590	0.1122	0.3712		4,213.9815	4,213.9815	0.4340		4,224.8314
Worker	2.4417	1.9305	16.7083	0.0341	3.7985	0.0246	3.8231	1.0075	0.0227	1.0302		3,391.3627	3,391.3627	0.1548		3,395.2332
Total	**3.1121**	**20.7944**	**21.9516**	**0.0744**	**4.6975**	**0.1419**	**4.8394**	**1.2665**	**0.1349**	**1.4014**		**7,605.3443**	**7,605.3443**	**0.5888**		**7,620.0647**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.2577	28.9536	24.1720	0.0411		1.5947	1.5947		1.5124	1.5124		3,872.5163	3,872.5163	0.8467		3,893.6848
Total	**3.2577**	**28.9536**	**24.1720**	**0.0411**		**1.5947**	**1.5947**		**1.5124**	**1.5124**		**3,872.5163**	**3,872.5163**	**0.8467**		**3,893.6848**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5871	17.2934	4.7227	0.0399	0.8990	0.0830	0.9819	0.2590	0.0794	0.3384		4,178.7854	4,178.7854	0.4026		4,188.8505
Worker	2.2621	1.7425	15.2089	0.0330	3.7985	0.0240	3.8225	1.0075	0.0221	1.0296		3,283.4917	3,283.4917	0.1397		3,286.9834
Total	**2.8492**	**19.0359**	**19.9316**	**0.0730**	**4.6974**	**0.1070**	**4.8044**	**1.2665**	**0.1015**	**1.3680**		**7,462.2771**	**7,462.2771**	**0.5423**		**7,475.8339**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.2577	28.9536	24.1720	0.0411		1.5947	1.5947		1.5124	1.5124	0.0000	3,872.5163	3,872.5163	0.8467		3,893.6848
Total	**3.2577**	**28.9536**	**24.1720**	**0.0411**		**1.5947**	**1.5947**		**1.5124**	**1.5124**	**0.0000**	**3,872.5163**	**3,872.5163**	**0.8467**		**3,893.6848**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5871	17.2934	4.7227	0.0399	0.8990	0.0830	0.9819	0.2590	0.0794	0.3384		4,178.7854	4,178.7854	0.4026		4,188.8505
Worker	2.2621	1.7425	15.2089	0.0330	3.7985	0.0240	3.8225	1.0075	0.0221	1.0296		3,283.4917	3,283.4917	0.1397		3,286.9834
Total	**2.8492**	**19.0359**	**19.9316**	**0.0730**	**4.6974**	**0.1070**	**4.8044**	**1.2665**	**0.1015**	**1.3680**		**7,462.2771**	**7,462.2771**	**0.5423**		**7,475.8339**

3.5 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	2.9223	26.3503	23.7137	0.0411		1.3727	1.3727		1.3016	1.3016		3,872.7726	3,872.7726	0.8329		3,893.5962
Total	**2.9223**	**26.3503**	**23.7137**	**0.0411**		**1.3727**	**1.3727**		**1.3016**	**1.3016**		**3,872.7726**	**3,872.7726**	**0.8329**		**3,893.5962**

3.5 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	0.5194	15.8126	4.2670	0.0397	0.8989	0.0297	0.9286	0.2590	0.0284	0.2874		4,155.2562	4,155.2562	0.3765		4,164.6691
Worker	2.1106	1.5809	14.0364	0.0319	3.7985	0.0234	3.8219	1.0075	0.0216	1.0291		3,173.0461	3,173.0461	0.1279		3,176.2447
Total	**2.6300**	**17.3935**	**18.3033**	**0.0716**	**4.6974**	**0.0531**	**4.7505**	**1.2665**	**0.0499**	**1.3164**		**7,328.3023**	**7,328.3023**	**0.5045**		**7,340.9138**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9223	26.3503	23.7137	0.0411		1.3727	1.3727		1.3016	1.3016	0.0000	3,872.7726	3,872.7726	0.8329		3,893.5962
Total	**2.9223**	**26.3503**	**23.7137**	**0.0411**		**1.3727**	**1.3727**		**1.3016**	**1.3016**	**0.0000**	**3,872.7726**	**3,872.7726**	**0.8329**		**3,893.5962**

3.5 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	0.5194	15.8126	4.2670	0.0397	0.8989	0.0297	0.9286	0.2590	0.0284	0.2874		4,155.2562	4,155.2562	0.3765		4,164.6691
Worker	2.1106	1.5809	14.0364	0.0319	3.7985	0.0234	3.8219	1.0075	0.0216	1.0291		3,173.0461	3,173.0461	0.1279		3,176.2447
Total	**2.6300**	**17.3935**	**18.3033**	**0.0716**	**4.6974**	**0.0531**	**4.7505**	**1.2665**	**0.0499**	**1.3164**		**7,328.3023**	**7,328.3023**	**0.5045**		**7,340.9138**

3.6 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	59.4597					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	**59.6786**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.4231	0.3169	2.8135	6.3900e-003	0.7614	4.6900e-003	0.7661	0.2020	4.3200e-003	0.2063		636.0070	636.0070	0.0256		636.6482
Total	**0.4231**	**0.3169**	**2.8135**	**6.3900e-003**	**0.7614**	**4.6900e-003**	**0.7661**	**0.2020**	**4.3200e-003**	**0.2063**		**636.0070**	**636.0070**	**0.0256**		**636.6482**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	59.4597					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	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**59.6786**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.4231	0.3169	2.8135	6.3900e-003	0.7614	4.6900e-003	0.7661	0.2020	4.3200e-003	0.2063		636.0070	636.0070	0.0256		636.6482
Total	**0.4231**	**0.3169**	**2.8135**	**6.3900e-003**	**0.7614**	**4.6900e-003**	**0.7661**	**0.2020**	**4.3200e-003**	**0.2063**		**636.0070**	**636.0070**	**0.0256**		**636.6482**

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	14.4955	143.2505	156.2006	0.5775	35.5286	0.4346	35.9632	9.5351	0.4095	9.9446		59,237.8965	59,237.8965	4.8402		59,358.9017
Unmitigated	14.4955	143.2505	156.2006	0.5775	35.5286	0.4346	35.9632	9.5351	0.4095	9.9446		59,237.8965	59,237.8965	4.8402		59,358.9017

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	689.96	689.96	689.96	552,288	552,288
Hotel	3,587.22	3,587.22	3587.22	8,609,430	8,609,430
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	2,916.78	2,916.78	2916.78	7,149,740	7,149,740
Regional Shopping Center	91.80	91.80	91.80	199,667	199,667
Total	7,285.76	7,285.76	7,285.76	16,511,125	16,511,125

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
Enclosed Parking with Elevator	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	12.50	4.20	5.40	8.50	72.50	19.00	37	20	43
Hotel	12.50	4.20	25.00	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	12.50	4.20	25.00	33.00	48.00	19.00	52	39	9
Regional Shopping Center	12.50	4.20	25.00	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
High Turnover (Sit Down Restaurant)	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Hotel	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Other Asphalt Surfaces	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Recreational Swimming Pool	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Regional Shopping Center	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

DSRT SURF Proposed Project SP Buildout - Salton Sea Air Basin, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9804	8.9125	7.4865	0.0535		0.6774	0.6774		0.6774	0.6774		10,694.9557	10,694.9557	0.2050	0.1961	10,758.5105
NaturalGas Unmitigated	0.9804	8.9125	7.4865	0.0535		0.6774	0.6774		0.6774	0.6774		10,694.9557	10,694.9557	0.2050	0.1961	10,758.5105

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	8427.95	0.0909	0.8263	0.6941	4.9600e-003		0.0628	0.0628		0.0628	0.0628		991.5230	991.5230	0.0190	0.0182	997.4151
Hotel	82205.5	0.8865	8.0594	6.7699	0.0484		0.6125	0.6125		0.6125	0.6125		9,671.2329	9,671.2329	0.1854	0.1773	9,728.7042
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Regional Shopping Center	273.699	2.9500e-003	0.0268	0.0225	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003		32.1998	32.1998	6.2000e-004	5.9000e-004	32.3912
Total		**0.9804**	**8.9125**	**7.4865**	**0.0535**		**0.6774**	**0.6774**		**0.6774**	**0.6774**		**10,694.9557**	**10,694.9557**	**0.2050**	**0.1961**	**10,758.5105**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	8.42795	0.0909	0.8263	0.6941	4.9600e-003		0.0628	0.0628		0.0628	0.0628		991.5230	991.5230	0.0190	0.0182	997.4151
Hotel	82.2055	0.8865	8.0594	6.7699	0.0484		0.6125	0.6125		0.6125	0.6125		9,671.2329	9,671.2329	0.1854	0.1773	9,728.7042
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Regional Shopping Center	0.273699	2.9500e-003	0.0268	0.0225	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003		32.1998	32.1998	6.2000e-004	5.9000e-004	32.3912
Total		**0.9804**	**8.9125**	**7.4865**	**0.0535**		**0.6774**	**0.6774**		**0.6774**	**0.6774**		**10,694.9557**	**10,694.9557**	**0.2050**	**0.1961**	**10,758.5105**

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	14.1631	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Unmitigated	14.1631	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981

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	2.1503					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.0006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0122	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Total	**14.1631**	**1.2000e-003**	**0.1309**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**		**0.2795**	**0.2795**	**7.4000e-004**		**0.2981**

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	2.1503					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.0006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0122	1.2000e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004		0.2795	0.2795	7.4000e-004		0.2981
Total	**14.1631**	**1.2000e-003**	**0.1309**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**		**0.2795**	**0.2795**	**7.4000e-004**		**0.2981**

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

DSRT SURF Northern Sphere SP Alternative

Salton Sea Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	500.00	Room	15.00	726,000.00	0
Other Asphalt Surfaces	2.69	Acre	2.69	117,176.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	20
Climate Zone	15			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

DSRT SURF Northern Sphere SP Alternative - Salton Sea Air Basin, Annual

Project Characteristics -

Land Use - Assumes maximum densities allowed in existing Northern Sphere SP.

Construction Phase - Assumes a 2-year buildout

Grading - Assumes 1000 CY export for conservative analysis.

Trips and VMT - Material haul location is approx. 2.5 miles north of project site.

On-road Fugitive Dust - All roads are paved.

Vehicle Trips - See project specific Traffic Report. Assumes 4180 daily trips.

Road Dust - All roads are paved.

Woodstoves -

Energy Use - Buildout will adhere to Title 24 standards.

Construction Off-road Equipment Mitigation - No mitigation required. Assumes standard dust control measures per SCAQMD Rule 403.1

Architectural Coating - Low VOC coatings and paint per SCAQMD 1113.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	100.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblConstructionPhase	NumDays	20.00	108.00
tblConstructionPhase	NumDays	300.00	482.00
tblConstructionPhase	NumDays	20.00	50.00
tblEnergyUse	NT24E	6.23	0.00
tblEnergyUse	T24E	6.47	12.70
tblGrading	AcresOfGrading	75.00	17.69
tblGrading	MaterialExported	0.00	1,000.00
tblLandUse	LotAcreage	16.67	15.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00

tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblRoadDust	RoadPercentPave	50	100
tblTripsAndVMT	HaulingTripLength	20.00	2.50
tblVehicleTrips	ST_TR	8.19	8.36
tblVehicleTrips	SU_TR	5.95	8.36
tblVehicleTrips	WD_TR	8.17	8.36

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.4058	3.5248	2.9893	6.6700e-003	0.3989	0.1467	0.5456	0.1567	0.1366	0.2932	0.0000	605.2094	605.2094	0.1032	0.0000	607.7891
2020	0.5699	4.4549	4.3720	0.0113	0.4733	0.1571	0.6304	0.1277	0.1478	0.2755	0.0000	1,025.4848	1,025.4848	0.1226	0.0000	1,028.5504
2021	3.6249	1.7689	1.9467	5.0500e-003	0.2268	0.0592	0.2860	0.0611	0.0560	0.1171	0.0000	457.2284	457.2284	0.0508	0.0000	458.4985
Maximum	**3.6249**	**4.4549**	**4.3720**	**0.0113**	**0.4733**	**0.1571**	**0.6304**	**0.1567**	**0.1478**	**0.2932**	**0.0000**	**1,025.4848**	**1,025.4848**	**0.1226**	**0.0000**	**1,028.5504**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.4058	3.5248	2.9893	6.6700e-003	0.2829	0.1467	0.4296	0.0955	0.1366	0.2320	0.0000	605.2091	605.2091	0.1032	0.0000	607.7887
2020	0.5699	4.4549	4.3720	0.0113	0.4733	0.1571	0.6304	0.1277	0.1478	0.2755	0.0000	1,025.4845	1,025.4845	0.1226	0.0000	1,028.5500
2021	3.6249	1.7689	1.9467	5.0500e-003	0.2268	0.0592	0.2860	0.0611	0.0560	0.1171	0.0000	457.2283	457.2283	0.0508	0.0000	458.4984
Maximum	**3.6249**	**4.4549**	**4.3720**	**0.0113**	**0.4733**	**0.1571**	**0.6304**	**0.1277**	**0.1478**	**0.2755**	**0.0000**	**1,025.4845**	**1,025.4845**	**0.1226**	**0.0000**	**1,028.5500**

DSRT SURF Northern Sphere SP Alternative - Salton Sea Air Basin, Annual

	ROG	NOx	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**	**10.55**	**0.00**	**7.93**	**17.72**	**0.00**	**8.93**	**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	**6-3-2019**	**9-2-2019**	1.9199	1.9199
2	**9-3-2019**	**12-2-2019**	1.5598	1.5598
3	**12-3-2019**	**3-2-2020**	1.2802	1.2802
4	**3-3-2020**	**6-2-2020**	1.2639	1.2639
5	**6-3-2020**	**9-2-2020**	1.2677	1.2677
6	**9-3-2020**	**12-2-2020**	1.2456	1.2456
7	**12-3-2020**	**3-2-2021**	2.5687	2.5687
8	**3-3-2021**	**6-2-2021**	3.2516	3.2516
		Highest	3.2516	3.2516

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	3.3506	4.0000e-005	4.6400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	2.0000e-005	0.0000	9.5800e-003
Energy	0.2349	2.1357	1.7940	0.0128		0.1623	0.1623		0.1623	0.1623	0.0000	6,521.0444	6,521.0444	0.2178	0.0785	6,549.8720
Mobile	1.5041	13.4554	12.8451	0.0467	2.4029	0.0318	2.4347	0.6455	0.0300	0.6755	0.0000	4,355.0531	4,355.0531	0.3919	0.0000	4,364.8504
Waste						0.0000	0.0000		0.0000	0.0000	55.5688	0.0000	55.5688	3.2840	0.0000	137.6693
Water						0.0000	0.0000		0.0000	0.0000	4.0239	57.6091	61.6329	0.4157	0.0103	75.0793
Total	**5.0896**	**15.5911**	**14.6437**	**0.0596**	**2.4029**	**0.1941**	**2.5971**	**0.6455**	**0.1923**	**0.8378**	**59.5926**	**10,933.7155**	**10,993.3081**	**4.3094**	**0.0887**	**11,127.4806**

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	3.3506	4.0000e-005	4.6400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	2.0000e-005	0.0000	9.5800e-003
Energy	0.2349	2.1357	1.7940	0.0128		0.1623	0.1623		0.1623	0.1623	0.0000	6,521.0444	6,521.0444	0.2178	0.0785	6,549.8720
Mobile	1.5041	13.4554	12.8451	0.0467	2.4029	0.0318	2.4347	0.6455	0.0300	0.6755	0.0000	4,355.0531	4,355.0531	0.3919	0.0000	4,364.8504
Waste						0.0000	0.0000		0.0000	0.0000	55.5688	0.0000	55.5688	3.2840	0.0000	137.6693
Water						0.0000	0.0000		0.0000	0.0000	4.0239	57.6091	61.6329	0.4157	0.0103	75.0793
Total	**5.0896**	**15.5911**	**14.6437**	**0.0596**	**2.4029**	**0.1941**	**2.5971**	**0.6455**	**0.1923**	**0.8378**	**59.5926**	**10,933.7155**	**10,993.3081**	**4.3094**	**0.0887**	**11,127.4806**

	ROG	NOx	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

DSRT SURF Northern Sphere SP Alternative - Salton Sea Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	6/14/2019	5	10	
2	Grading	Grading	6/15/2019	7/26/2019	5	30	
3	Building Construction	Building Construction	7/27/2019	6/1/2021	5	482	
4	Paving	Paving	7/27/2019	10/4/2019	5	50	
5	Architectural Coating	Architectural Coating	1/1/2021	6/1/2021	5	108	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 17.69

Acres of Paving: 2.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,089,000; Non-Residential Outdoor: 363,000; Striped Parking Area: 7,031 (Architectural Coating – sqft)

OffRoad Equipment

DSRT SURF Northern Sphere SP Alternative - Salton Sea Air Basin, Annual

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	125.00	11.00	5.40	2.50	LD_Mix	HDT_Mix	HHDT
Building Construction	9	354.00	138.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	71.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.2279	0.1103	1.9000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195
Total	**0.0217**	**0.2279**	**0.1103**	**1.9000e-004**	**0.0903**	**0.0120**	**0.1023**	**0.0497**	**0.0110**	**0.0607**	**0.0000**	**17.0843**	**17.0843**	**5.4100e-003**	**0.0000**	**17.2195**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	4.9000e-004	3.7000e-004	3.6900e-003	1.0000e-005	7.4000e-004	0.0000	7.5000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.6564	0.6564	3.0000e-005	0.0000	0.6571
Total	**4.9000e-004**	**3.7000e-004**	**3.6900e-003**	**1.0000e-005**	**7.4000e-004**	**0.0000**	**7.5000e-004**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**0.6564**	**0.6564**	**3.0000e-005**	**0.0000**	**0.6571**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0352	0.0000	0.0352	0.0194	0.0000	0.0194	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.2279	0.1103	1.9000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195
Total	**0.0217**	**0.2279**	**0.1103**	**1.9000e-004**	**0.0352**	**0.0120**	**0.0472**	**0.0194**	**0.0110**	**0.0304**	**0.0000**	**17.0843**	**17.0843**	**5.4100e-003**	**0.0000**	**17.2195**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	4.9000e-004	3.7000e-004	3.6900e-003	1.0000e-005	7.4000e-004	0.0000	7.5000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.6564	0.6564	3.0000e-005	0.0000	0.6571
Total	**4.9000e-004**	**3.7000e-004**	**3.6900e-003**	**1.0000e-005**	**7.4000e-004**	**0.0000**	**7.5000e-004**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**0.6564**	**0.6564**	**3.0000e-005**	**0.0000**	**0.6571**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0998	0.0000	0.0998	0.0507	0.0000	0.0507	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0711	0.8178	0.5007	9.3000e-004		0.0357	0.0357		0.0329	0.0329	0.0000	83.5520	83.5520	0.0264	0.0000	84.2129
Total	**0.0711**	**0.8178**	**0.5007**	**9.3000e-004**	**0.0998**	**0.0357**	**0.1356**	**0.0507**	**0.0329**	**0.0836**	**0.0000**	**83.5520**	**83.5520**	**0.0264**	**0.0000**	**84.2129**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	8.6500e-003	1.0000e-003	2.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	1.4700	1.4700	2.3000e-004	0.0000	1.4758
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6400e-003	1.2500e-003	0.0123	2.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	2.1879	2.1879	1.0000e-004	0.0000	2.1904
Total	**1.8400e-003**	**9.9000e-003**	**0.0133**	**4.0000e-005**	**2.6200e-003**	**3.0000e-005**	**2.6500e-003**	**7.0000e-004**	**2.0000e-005**	**7.2000e-004**	**0.0000**	**3.6579**	**3.6579**	**3.3000e-004**	**0.0000**	**3.6662**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0389	0.0000	0.0389	0.0198	0.0000	0.0198	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0711	0.8178	0.5007	9.3000e-004		0.0357	0.0357		0.0329	0.0329	0.0000	83.5519	83.5519	0.0264	0.0000	84.2128
Total	**0.0711**	**0.8178**	**0.5007**	**9.3000e-004**	**0.0389**	**0.0357**	**0.0747**	**0.0198**	**0.0329**	**0.0527**	**0.0000**	**83.5519**	**83.5519**	**0.0264**	**0.0000**	**84.2128**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	8.6500e-003	1.0000e-003	2.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	1.4700	1.4700	2.3000e-004	0.0000	1.4758
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6400e-003	1.2500e-003	0.0123	2.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	2.1879	2.1879	1.0000e-004	0.0000	2.1904
Total	**1.8400e-003**	**9.9000e-003**	**0.0133**	**4.0000e-005**	**2.6200e-003**	**3.0000e-005**	**2.6500e-003**	**7.0000e-004**	**2.0000e-005**	**7.2000e-004**	**0.0000**	**3.6579**	**3.6579**	**3.3000e-004**	**0.0000**	**3.6662**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1322	1.1804	0.9612	1.5100e-003		0.0722	0.0722		0.0679	0.0679	0.0000	131.6584	131.6584	0.0321	0.0000	132.4602
Total	**0.1322**	**1.1804**	**0.9612**	**1.5100e-003**		**0.0722**	**0.0722**		**0.0679**	**0.0679**	**0.0000**	**131.6584**	**131.6584**	**0.0321**	**0.0000**	**132.4602**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0279	0.8233	0.2051	1.7900e-003	0.0384	5.0100e-003	0.0434	0.0111	4.7900e-003	0.0159	0.0000	170.1046	170.1046	0.0159	0.0000	170.5025
Worker	0.1087	0.0826	0.8130	1.6000e-003	0.1639	1.0700e-003	0.1650	0.0435	9.9000e-004	0.0445	0.0000	144.5732	144.5732	6.6700e-003	0.0000	144.7399
Total	**0.1366**	**0.9058**	**1.0181**	**3.3900e-003**	**0.2023**	**6.0800e-003**	**0.2084**	**0.0546**	**5.7800e-003**	**0.0604**	**0.0000**	**314.6778**	**314.6778**	**0.0226**	**0.0000**	**315.2425**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1322	1.1804	0.9612	1.5100e-003		0.0722	0.0722		0.0679	0.0679	0.0000	131.6582	131.6582	0.0321	0.0000	132.4600
Total	**0.1322**	**1.1804**	**0.9612**	**1.5100e-003**		**0.0722**	**0.0722**		**0.0679**	**0.0679**	**0.0000**	**131.6582**	**131.6582**	**0.0321**	**0.0000**	**132.4600**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0279	0.8233	0.2051	1.7900e-003	0.0384	5.0100e-003	0.0434	0.0111	4.7900e-003	0.0159	0.0000	170.1046	170.1046	0.0159	0.0000	170.5025
Worker	0.1087	0.0826	0.8130	1.6000e-003	0.1639	1.0700e-003	0.1650	0.0435	9.9000e-004	0.0445	0.0000	144.5732	144.5732	6.6700e-003	0.0000	144.7399
Total	**0.1366**	**0.9058**	**1.0181**	**3.3900e-003**	**0.2023**	**6.0800e-003**	**0.2084**	**0.0546**	**5.7800e-003**	**0.0604**	**0.0000**	**314.6778**	**314.6778**	**0.0226**	**0.0000**	**315.2425**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	**0.2777**	**2.5134**	**2.2072**	**3.5300e-003**		**0.1463**	**0.1463**		**0.1376**	**0.1376**	**0.0000**	**303.4091**	**303.4091**	**0.0740**	**0.0000**	**305.2596**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0570	1.7671	0.4307	4.1600e-003	0.0899	8.2800e-003	0.0982	0.0259	7.9200e-003	0.0339	0.0000	394.6310	394.6310	0.0345	0.0000	395.4937
Worker	0.2353	0.1745	1.7342	3.6300e-003	0.3834	2.4500e-003	0.3858	0.1018	2.2600e-003	0.1040	0.0000	327.4448	327.4448	0.0141	0.0000	327.7971
Total	**0.2922**	**1.9416**	**2.1649**	**7.7900e-003**	**0.4733**	**0.0107**	**0.4840**	**0.1277**	**0.0102**	**0.1379**	**0.0000**	**722.0758**	**722.0758**	**0.0486**	**0.0000**	**723.2908**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	**0.2777**	**2.5134**	**2.2072**	**3.5300e-003**		**0.1463**	**0.1463**		**0.1376**	**0.1376**	**0.0000**	**303.4087**	**303.4087**	**0.0740**	**0.0000**	**305.2592**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0570	1.7671	0.4307	4.1600e-003	0.0899	8.2800e-003	0.0982	0.0259	7.9200e-003	0.0339	0.0000	394.6310	394.6310	0.0345	0.0000	395.4937
Worker	0.2353	0.1745	1.7342	3.6300e-003	0.3834	2.4500e-003	0.3858	0.1018	2.2600e-003	0.1040	0.0000	327.4448	327.4448	0.0141	0.0000	327.7971
Total	**0.2922**	**1.9416**	**2.1649**	**7.7900e-003**	**0.4733**	**0.0107**	**0.4840**	**0.1277**	**0.0102**	**0.1379**	**0.0000**	**722.0758**	**722.0758**	**0.0486**	**0.0000**	**723.2908**

3.4 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	0.1027	0.9413	0.8951	1.4500e-003		0.0518	0.0518		0.0487	0.0487	0.0000	125.0841	125.0841	0.0302	0.0000	125.8386
Total	**0.1027**	**0.9413**	**0.8951**	**1.4500e-003**		**0.0518**	**0.0518**		**0.0487**	**0.0487**	**0.0000**	**125.0841**	**125.0841**	**0.0302**	**0.0000**	**125.8386**

3.4 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	0.0207	0.6668	0.1596	1.7000e-003	0.0371	1.2000e-003	0.0383	0.0107	1.1500e-003	0.0118	0.0000	161.7605	161.7605	0.0133	0.0000	162.0928
Worker	0.0903	0.0653	0.6612	1.4500e-003	0.1580	9.9000e-004	0.1590	0.0420	9.1000e-004	0.0429	0.0000	130.4354	130.4354	5.3200e-003	0.0000	130.5685
Total	**0.1110**	**0.7320**	**0.8208**	**3.1500e-003**	**0.1951**	**2.1900e-003**	**0.1973**	**0.0527**	**2.0600e-003**	**0.0547**	**0.0000**	**292.1960**	**292.1960**	**0.0186**	**0.0000**	**292.6613**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1027	0.9413	0.8951	1.4500e-003		0.0518	0.0518		0.0487	0.0487	0.0000	125.0840	125.0840	0.0302	0.0000	125.8384
Total	**0.1027**	**0.9413**	**0.8951**	**1.4500e-003**		**0.0518**	**0.0518**		**0.0487**	**0.0487**	**0.0000**	**125.0840**	**125.0840**	**0.0302**	**0.0000**	**125.8384**

3.4 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	0.0207	0.6668	0.1596	1.7000e-003	0.0371	1.2000e-003	0.0383	0.0107	1.1500e-003	0.0118	0.0000	161.7605	161.7605	0.0133	0.0000	162.0928
Worker	0.0903	0.0653	0.6612	1.4500e-003	0.1580	9.9000e-004	0.1590	0.0420	9.1000e-004	0.0429	0.0000	130.4354	130.4354	5.3200e-003	0.0000	130.5685
Total	**0.1110**	**0.7320**	**0.8208**	**3.1500e-003**	**0.1951**	**2.1900e-003**	**0.1973**	**0.0527**	**2.0600e-003**	**0.0547**	**0.0000**	**292.1960**	**292.1960**	**0.0186**	**0.0000**	**292.6613**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0364	0.3811	0.3666	5.7000e-004		0.0206	0.0206		0.0190	0.0190	0.0000	51.1880	51.1880	0.0162	0.0000	51.5928
Paving	3.5200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0399**	**0.3811**	**0.3666**	**5.7000e-004**		**0.0206**	**0.0206**		**0.0190**	**0.0190**	**0.0000**	**51.1880**	**51.1880**	**0.0162**	**0.0000**	**51.5928**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	2.0600e-003	1.5600e-003	0.0154	3.0000e-005	3.1000e-003	2.0000e-005	3.1200e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.7348	2.7348	1.3000e-004	0.0000	2.7380
Total	**2.0600e-003**	**1.5600e-003**	**0.0154**	**3.0000e-005**	**3.1000e-003**	**2.0000e-005**	**3.1200e-003**	**8.2000e-004**	**2.0000e-005**	**8.4000e-004**	**0.0000**	**2.7348**	**2.7348**	**1.3000e-004**	**0.0000**	**2.7380**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0364	0.3811	0.3666	5.7000e-004		0.0206	0.0206		0.0190	0.0190	0.0000	51.1879	51.1879	0.0162	0.0000	51.5928
Paving	3.5200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0399**	**0.3811**	**0.3666**	**5.7000e-004**		**0.0206**	**0.0206**		**0.0190**	**0.0190**	**0.0000**	**51.1879**	**51.1879**	**0.0162**	**0.0000**	**51.5928**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	2.0600e-003	1.5600e-003	0.0154	3.0000e-005	3.1000e-003	2.0000e-005	3.1200e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.7348	2.7348	1.3000e-004	0.0000	2.7380
Total	**2.0600e-003**	**1.5600e-003**	**0.0154**	**3.0000e-005**	**3.1000e-003**	**2.0000e-005**	**3.1200e-003**	**8.2000e-004**	**2.0000e-005**	**8.4000e-004**	**0.0000**	**2.7348**	**2.7348**	**1.3000e-004**	**0.0000**	**2.7380**

3.6 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	3.3813					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0118	0.0825	0.0982	1.6000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003	0.0000	13.7876	13.7876	9.5000e-004	0.0000	13.8112
Total	**3.3931**	**0.0825**	**0.0982**	**1.6000e-004**		**5.0800e-003**	**5.0800e-003**		**5.0800e-003**	**5.0800e-003**	**0.0000**	**13.7876**	**13.7876**	**9.5000e-004**	**0.0000**	**13.8112**

3.6 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	0.0181	0.0131	0.1326	2.9000e-004	0.0317	2.0000e-004	0.0319	8.4100e-003	1.8000e-004	8.6000e-003	0.0000	26.1608	26.1608	1.0700e-003	0.0000	26.1875
Total	**0.0181**	**0.0131**	**0.1326**	**2.9000e-004**	**0.0317**	**2.0000e-004**	**0.0319**	**8.4100e-003**	**1.8000e-004**	**8.6000e-003**	**0.0000**	**26.1608**	**26.1608**	**1.0700e-003**	**0.0000**	**26.1875**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.3813					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0118	0.0825	0.0982	1.6000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003	0.0000	13.7876	13.7876	9.5000e-004	0.0000	13.8112
Total	**3.3931**	**0.0825**	**0.0982**	**1.6000e-004**		**5.0800e-003**	**5.0800e-003**		**5.0800e-003**	**5.0800e-003**	**0.0000**	**13.7876**	**13.7876**	**9.5000e-004**	**0.0000**	**13.8112**

3.6 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	0.0181	0.0131	0.1326	2.9000e-004	0.0317	2.0000e-004	0.0319	8.4100e-003	1.8000e-004	8.6000e-003	0.0000	26.1608	26.1608	1.0700e-003	0.0000	26.1875
Total	**0.0181**	**0.0131**	**0.1326**	**2.9000e-004**	**0.0317**	**2.0000e-004**	**0.0319**	**8.4100e-003**	**1.8000e-004**	**8.6000e-003**	**0.0000**	**26.1608**	**26.1608**	**1.0700e-003**	**0.0000**	**26.1875**

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	1.5041	13.4554	12.8451	0.0467	2.4029	0.0318	2.4347	0.6455	0.0300	0.6755	0.0000	4,355.0531	4,355.0531	0.3919	0.0000	4,364.8504
Unmitigated	1.5041	13.4554	12.8451	0.0467	2.4029	0.0318	2.4347	0.6455	0.0300	0.6755	0.0000	4,355.0531	4,355.0531	0.3919	0.0000	4,364.8504

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Hotel	4,180.00	4,180.00	4180.00	6,207,474	6,207,474
Total	4,180.00	4,180.00	4,180.00	6,207,474	6,207,474

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Hotel	12.50	4.20	5.40	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Hotel	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871

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	4,196.1295	4,196.1295	0.1732	0.0358	4,211.1412
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,196.1295	4,196.1295	0.1732	0.0358	4,211.1412
NaturalGas Mitigated	0.2349	2.1357	1.7940	0.0128		0.1623	0.1623		0.1623	0.1623	0.0000	2,324.9149	2,324.9149	0.0446	0.0426	2,338.7307
NaturalGas Unmitigated	0.2349	2.1357	1.7940	0.0128		0.1623	0.1623		0.1623	0.1623	0.0000	2,324.9149	2,324.9149	0.0446	0.0426	2,338.7307

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					
Hotel	4.35673e+007	0.2349	2.1357	1.7940	0.0128		0.1623	0.1623		0.1623	0.1623	0.0000	2,324.9149	2,324.9149	0.0446	0.0426	2,338.7307
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.2349**	**2.1357**	**1.7940**	**0.0128**		**0.1623**	**0.1623**		**0.1623**	**0.1623**	**0.0000**	**2,324.9149**	**2,324.9149**	**0.0446**	**0.0426**	**2,338.7307**

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					
Hotel	4.35673e+007	0.2349	2.1357	1.7940	0.0128		0.1623	0.1623		0.1623	0.1623	0.0000	2,324.9149	2,324.9149	0.0446	0.0426	2,338.7307
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.2349**	**2.1357**	**1.7940**	**0.0128**		**0.1623**	**0.1623**		**0.1623**	**0.1623**	**0.0000**	**2,324.9149**	**2,324.9149**	**0.0446**	**0.0426**	**2,338.7307**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	1.31696e+007	4,196.1295	0.1732	0.0358	4,211.1412
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**4,196.1295**	**0.1732**	**0.0358**	**4,211.1412**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	1.31696e+007	4,196.1295	0.1732	0.0358	4,211.1412
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**4,196.1295**	**0.1732**	**0.0358**	**4,211.1412**

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	3.3506	4.0000e-005	4.6400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	2.0000e-005	0.0000	9.5800e-003
Unmitigated	3.3506	4.0000e-005	4.6400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	2.0000e-005	0.0000	9.5800e-003

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	0.5072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3000e-004	4.0000e-005	4.6400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	2.0000e-005	0.0000	9.5800e-003
Total	**3.3506**	**4.0000e-005**	**4.6400e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**8.9800e-003**	**8.9800e-003**	**2.0000e-005**	**0.0000**	**9.5800e-003**

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	0.5072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3000e-004	4.0000e-005	4.6400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	2.0000e-005	0.0000	9.5800e-003
Total	**3.3506**	**4.0000e-005**	**4.6400e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**8.9800e-003**	**8.9800e-003**	**2.0000e-005**	**0.0000**	**9.5800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	61.6329	0.4157	0.0103	75.0793
Unmitigated	61.6329	0.4157	0.0103	75.0793

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	12.6834 / 1.40927	61.6329	0.4157	0.0103	75.0793
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**61.6329**	**0.4157**	**0.0103**	**75.0793**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	12.6834 / 1.40927	61.6329	0.4157	0.0103	75.0793
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**61.6329**	**0.4157**	**0.0103**	**75.0793**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	55.5688	3.2840	0.0000	137.6693
Unmitigated	55.5688	3.2840	0.0000	137.6693

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	273.75	55.5688	3.2840	0.0000	137.6693
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**55.5688**	**3.2840**	**0.0000**	**137.6693**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	273.75	55.5688	3.2840	0.0000	137.6693
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**55.5688**	**3.2840**	**0.0000**	**137.6693**

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

DSRT SURF Northern Sphere SP Alternative

Salton Sea Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	500.00	Room	15.00	726,000.00	0
Other Asphalt Surfaces	2.69	Acre	2.69	117,176.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	20
Climate Zone	15			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

DSRT SURF Northern Sphere SP Alternative - Salton Sea Air Basin, Summer

Project Characteristics -

Land Use - Assumes maximum densities allowed in existing Northern Sphere SP.

Construction Phase - Assumes a 2-year buildout

Grading - Assumes 1000 CY export for conservative analysis.

Trips and VMT - Material haul location is approx. 2.5 miles north of project site.

On-road Fugitive Dust - All roads are paved.

Vehicle Trips - See project specific Traffic Report. Assumes 4180 daily trips.

Road Dust - All roads are paved.

Woodstoves -

Energy Use - Buildout will adhere to Title 24 standards.

Construction Off-road Equipment Mitigation - No mitigation required. Assumes standard dust control measures per SCAQMD Rule 403.1

Architectural Coating - Low VOC coatings and paint per SCAQMD 1113.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	100.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblConstructionPhase	NumDays	20.00	108.00
tblConstructionPhase	NumDays	300.00	482.00
tblConstructionPhase	NumDays	20.00	50.00
tblEnergyUse	NT24E	6.23	0.00
tblEnergyUse	T24E	6.47	12.70
tblGrading	AcresOfGrading	75.00	17.69
tblGrading	MaterialExported	0.00	1,000.00
tblLandUse	LotAcreage	16.67	15.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00

tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblRoadDust	RoadPercentPave	50	100
tblTripsAndVMT	HaulingTripLength	20.00	2.50
tblVehicleTrips	ST_TR	8.19	8.36
tblVehicleTrips	SU_TR	5.95	8.36
tblVehicleTrips	WD_TR	8.17	8.36

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					
2019	6.8666	55.1840	54.1710	0.1154	18.2169	2.3913	20.6082	9.9706	2.2000	12.1707	0.0000	11,549.4329	11,549.4329	1.9674	0.0000	11,594.5101
2020	4.6910	33.8908	36.4729	0.0900	3.6549	1.1985	4.8533	0.9853	1.1276	2.1128	0.0000	8,992.4638	8,992.4638	1.0370	0.0000	9,018.3878
2021	67.5041	32.6884	39.5462	0.0977	4.2489	1.0965	5.3453	1.1428	1.0364	2.1793	0.0000	9,743.3137	9,743.3137	1.0446	0.0000	9,769.4282
Maximum	**67.5041**	**55.1840**	**54.1710**	**0.1154**	**18.2169**	**2.3913**	**20.6082**	**9.9706**	**2.2000**	**12.1707**	**0.0000**	**11,549.4329**	**11,549.4329**	**1.9674**	**0.0000**	**11,594.5101**

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					
2019	6.8666	55.1840	54.1710	0.1154	7.1964	2.3913	9.5878	3.9129	2.2000	6.1129	0.0000	11,549.4329	11,549.4329	1.9674	0.0000	11,594.5101
2020	4.6910	33.8908	36.4729	0.0900	3.6549	1.1985	4.8533	0.9853	1.1276	2.1128	0.0000	8,992.4638	8,992.4638	1.0370	0.0000	9,018.3878
2021	67.5041	32.6884	39.5462	0.0977	4.2489	1.0965	5.3453	1.1428	1.0364	2.1793	0.0000	9,743.3137	9,743.3137	1.0446	0.0000	9,769.4282
Maximum	**67.5041**	**55.1840**	**54.1710**	**0.1154**	**7.1964**	**2.3913**	**9.5878**	**3.9129**	**2.2000**	**6.1129**	**0.0000**	**11,549.4329**	**11,549.4329**	**1.9674**	**0.0000**	**11,594.5101**

DSRT SURF Northern Sphere SP Alternative - Salton Sea Air Basin, Summer

	ROG	NOx	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**	**42.19**	**0.00**	**35.77**	**50.07**	**0.00**	**36.80**	**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	18.3619	4.7000e-004	0.0515	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1100	0.1100	2.9000e-004		0.1173
Energy	1.2872	11.7022	9.8298	0.0702		0.8894	0.8894		0.8894	0.8894		14,042.6301	14,042.6301	0.2692	0.2575	14,126.0785
Mobile	10.3313	74.0818	80.9996	0.2727	13.3572	0.1723	13.5296	3.5848	0.1623	3.7471		27,968.5446	27,968.5446	2.3443		28,027.1531
Total	**29.9804**	**85.7844**	**90.8809**	**0.3429**	**13.3572**	**1.0619**	**14.4191**	**3.5848**	**1.0518**	**4.6366**		**42,011.2848**	**42,011.2848**	**2.6138**	**0.2575**	**42,153.3489**

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	18.3619	4.7000e-004	0.0515	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1100	0.1100	2.9000e-004		0.1173
Energy	1.2872	11.7022	9.8298	0.0702		0.8894	0.8894		0.8894	0.8894		14,042.6301	14,042.6301	0.2692	0.2575	14,126.0785
Mobile	10.3313	74.0818	80.9996	0.2727	13.3572	0.1723	13.5296	3.5848	0.1623	3.7471		27,968.5446	27,968.5446	2.3443		28,027.1531
Total	**29.9804**	**85.7844**	**90.8809**	**0.3429**	**13.3572**	**1.0619**	**14.4191**	**3.5848**	**1.0518**	**4.6366**		**42,011.2848**	**42,011.2848**	**2.6138**	**0.2575**	**42,153.3489**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	6/14/2019	5	10	
2	Grading	Grading	6/15/2019	7/26/2019	5	30	
3	Building Construction	Building Construction	7/27/2019	6/1/2021	5	482	
4	Paving	Paving	7/27/2019	10/4/2019	5	50	
5	Architectural Coating	Architectural Coating	1/1/2021	6/1/2021	5	108	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 17.69

Acres of Paving: 2.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,089,000; Non-Residential Outdoor: 363,000; Striped Parking Area: 7,031 (Architectural Coating – sqft)

OffRoad Equipment

DSRT SURF Northern Sphere SP Alternative - Salton Sea Air Basin, Summer

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	125.00	11.00	5.40	2.50	LD_Mix	HDT_Mix	HHDT
Building Construction	9	354.00	138.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	71.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**		**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1179	0.0742	0.9228	1.6100e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		160.0181	160.0181	7.7700e-003		160.2123
Total	**0.1179**	**0.0742**	**0.9228**	**1.6100e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**160.0181**	**160.0181**	**7.7700e-003**		**160.2123**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**7.0458**	**2.3904**	**9.4362**	**3.8730**	**2.1991**	**6.0721**	**0.0000**	**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1179	0.0742	0.9228	1.6100e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		160.0181	160.0181	7.7700e-003		160.2123
Total	**0.1179**	**0.0742**	**0.9228**	**1.6100e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**160.0181**	**160.0181**	**7.7700e-003**		**160.2123**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6541	0.0000	6.6541	3.3788	0.0000	3.3788			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**6.6541**	**2.3827**	**9.0367**	**3.3788**	**2.1920**	**5.5708**		**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0125	0.5814	0.0554	1.0700e-003	9.2100e-003	7.0000e-004	9.9100e-003	2.5300e-003	6.7000e-004	3.2000e-003		112.3051	112.3051	0.0162		112.7090
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1310	0.0824	1.0254	1.7900e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		177.7979	177.7979	8.6300e-003		178.0136
Total	**0.1435**	**0.6638**	**1.0808**	**2.8600e-003**	**0.1765**	**1.7800e-003**	**0.1783**	**0.0469**	**1.6700e-003**	**0.0486**		**290.1030**	**290.1030**	**0.0248**		**290.7227**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5951	0.0000	2.5951	1.3177	0.0000	1.3177			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**2.5951**	**2.3827**	**4.9777**	**1.3177**	**2.1920**	**3.5098**	**0.0000**	**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0125	0.5814	0.0554	1.0700e-003	9.2100e-003	7.0000e-004	9.9100e-003	2.5300e-003	6.7000e-004	3.2000e-003		112.3051	112.3051	0.0162		112.7090
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1310	0.0824	1.0254	1.7900e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		177.7979	177.7979	8.6300e-003		178.0136
Total	**0.1435**	**0.6638**	**1.0808**	**2.8600e-003**	**0.1765**	**1.7800e-003**	**0.1783**	**0.0469**	**1.6700e-003**	**0.0486**		**290.1030**	**290.1030**	**0.0248**		**290.7227**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4930	14.5466	3.4244	0.0327	0.6931	0.0888	0.7819	0.1997	0.0849	0.2846		3,420.4795	3,420.4795	0.2985		3,427.9407
Worker	2.3188	1.4588	18.1490	0.0317	2.9618	0.0192	2.9810	0.7856	0.0177	0.8033		3,147.0223	3,147.0223	0.1527		3,150.8409
Total	**2.8118**	**16.0053**	**21.5733**	**0.0644**	**3.6549**	**0.1080**	**3.7628**	**0.9853**	**0.1026**	**1.0879**		**6,567.5019**	**6,567.5019**	**0.4512**		**6,578.7816**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4930	14.5466	3.4244	0.0327	0.6931	0.0888	0.7819	0.1997	0.0849	0.2846		3,420.4795	3,420.4795	0.2985		3,427.9407
Worker	2.3188	1.4588	18.1490	0.0317	2.9618	0.0192	2.9810	0.7856	0.0177	0.8033		3,147.0223	3,147.0223	0.1527		3,150.8409
Total	**2.8118**	**16.0053**	**21.5733**	**0.0644**	**3.6549**	**0.1080**	**3.7628**	**0.9853**	**0.1026**	**1.0879**		**6,567.5019**	**6,567.5019**	**0.4512**		**6,578.7816**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4301	13.3866	3.0632	0.0324	0.6931	0.0627	0.7558	0.1997	0.0600	0.2597		3,392.3633	3,392.3633	0.2764		3,399.2721
Worker	2.1410	1.3181	16.5613	0.0307	2.9618	0.0187	2.9805	0.7856	0.0172	0.8028		3,047.0374	3,047.0374	0.1378		3,050.4813
Total	**2.5711**	**14.7048**	**19.6244**	**0.0631**	**3.6549**	**0.0814**	**3.7363**	**0.9853**	**0.0772**	**1.0625**		**6,439.4007**	**6,439.4007**	**0.4141**		**6,449.7533**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4301	13.3866	3.0632	0.0324	0.6931	0.0627	0.7558	0.1997	0.0600	0.2597		3,392.3633	3,392.3633	0.2764		3,399.2721
Worker	2.1410	1.3181	16.5613	0.0307	2.9618	0.0187	2.9805	0.7856	0.0172	0.8028		3,047.0374	3,047.0374	0.1378		3,050.4813
Total	**2.5711**	**14.7048**	**19.6244**	**0.0631**	**3.6549**	**0.0814**	**3.7363**	**0.9853**	**0.0772**	**1.0625**		**6,439.4007**	**6,439.4007**	**0.4141**		**6,449.7533**

3.4 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 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	0.3788	12.2922	2.7439	0.0322	0.6930	0.0218	0.7149	0.1997	0.0209	0.2205		3,373.4090	3,373.4090	0.2580		3,379.8582
Worker	1.9897	1.1971	15.3341	0.0296	2.9618	0.0183	2.9801	0.7856	0.0168	0.8024		2,944.5244	2,944.5244	0.1260		2,947.6746
Total	**2.3685**	**13.4893**	**18.0780**	**0.0619**	**3.6548**	**0.0401**	**3.6949**	**0.9853**	**0.0377**	**1.0229**		**6,317.9333**	**6,317.9333**	**0.3840**		**6,327.5328**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 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	0.3788	12.2922	2.7439	0.0322	0.6930	0.0218	0.7149	0.1997	0.0209	0.2205		3,373.4090	3,373.4090	0.2580		3,379.8582
Worker	1.9897	1.1971	15.3341	0.0296	2.9618	0.0183	2.9801	0.7856	0.0168	0.8024		2,944.5244	2,944.5244	0.1260		2,947.6746
Total	**2.3685**	**13.4893**	**18.0780**	**0.0619**	**3.6548**	**0.0401**	**3.6949**	**0.9853**	**0.0377**	**1.0229**		**6,317.9333**	**6,317.9333**	**0.3840**		**6,327.5328**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.1410					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5954**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0983	0.0618	0.7690	1.3400e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		133.3484	133.3484	6.4700e-003		133.5102
Total	**0.0983**	**0.0618**	**0.7690**	**1.3400e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**133.3484**	**133.3484**	**6.4700e-003**		**133.5102**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.1410					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5954**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0983	0.0618	0.7690	1.3400e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		133.3484	133.3484	6.4700e-003		133.5102
Total	**0.0983**	**0.0618**	**0.7690**	**1.3400e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**133.3484**	**133.3484**	**6.4700e-003**		**133.5102**

3.6 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	62.6168					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	**62.8357**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.3991	0.2401	3.0755	5.9500e-003	0.5940	3.6600e-003	0.5977	0.1576	3.3700e-003	0.1609		590.5684	590.5684	0.0253		591.2003
Total	**0.3991**	**0.2401**	**3.0755**	**5.9500e-003**	**0.5940**	**3.6600e-003**	**0.5977**	**0.1576**	**3.3700e-003**	**0.1609**		**590.5684**	**590.5684**	**0.0253**		**591.2003**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	62.6168					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	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**62.8357**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.3991	0.2401	3.0755	5.9500e-003	0.5940	3.6600e-003	0.5977	0.1576	3.3700e-003	0.1609		590.5684	590.5684	0.0253		591.2003
Total	**0.3991**	**0.2401**	**3.0755**	**5.9500e-003**	**0.5940**	**3.6600e-003**	**0.5977**	**0.1576**	**3.3700e-003**	**0.1609**		**590.5684**	**590.5684**	**0.0253**		**591.2003**

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	10.3313	74.0818	80.9996	0.2727	13.3572	0.1723	13.5296	3.5848	0.1623	3.7471		27,968.5446	27,968.5446	2.3443		28,027.1531
Unmitigated	10.3313	74.0818	80.9996	0.2727	13.3572	0.1723	13.5296	3.5848	0.1623	3.7471		27,968.5446	27,968.5446	2.3443		28,027.1531

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Hotel	4,180.00	4,180.00	4180.00	6,207,474	6,207,474
Total	4,180.00	4,180.00	4,180.00	6,207,474	6,207,474

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Hotel	12.50	4.20	5.40	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Hotel	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.2872	11.7022	9.8298	0.0702		0.8894	0.8894		0.8894	0.8894		14,042.6301	14,042.6301	0.2692	0.2575	14,126.0785
NaturalGas Unmitigated	1.2872	11.7022	9.8298	0.0702		0.8894	0.8894		0.8894	0.8894		14,042.6301	14,042.6301	0.2692	0.2575	14,126.0785

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					
Hotel	119362	1.2872	11.7022	9.8298	0.0702		0.8894	0.8894		0.8894	0.8894		14,042.6301	14,042.6301	0.2692	0.2575	14,126.0785
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**1.2872**	**11.7022**	**9.8298**	**0.0702**		**0.8894**	**0.8894**		**0.8894**	**0.8894**		**14,042.6301**	**14,042.6301**	**0.2692**	**0.2575**	**14,126.0785**

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					
Hotel	119.362	1.2872	11.7022	9.8298	0.0702		0.8894	0.8894		0.8894	0.8894		14,042.6301	14,042.6301	0.2692	0.2575	14,126.0785
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**1.2872**	**11.7022**	**9.8298**	**0.0702**		**0.8894**	**0.8894**		**0.8894**	**0.8894**		**14,042.6301**	**14,042.6301**	**0.2692**	**0.2575**	**14,126.0785**

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	18.3619	4.7000e-004	0.0515	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1100	0.1100	2.9000e-004		0.1173
Unmitigated	18.3619	4.7000e-004	0.0515	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1100	0.1100	2.9000e-004		0.1173

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	2.7792					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.5779					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8100e-003	4.7000e-004	0.0515	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1100	0.1100	2.9000e-004		0.1173
Total	**18.3619**	**4.7000e-004**	**0.0515**	**0.0000**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**		**0.1100**	**0.1100**	**2.9000e-004**		**0.1173**

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	2.7792					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.5779					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8100e-003	4.7000e-004	0.0515	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1100	0.1100	2.9000e-004		0.1173
Total	**18.3619**	**4.7000e-004**	**0.0515**	**0.0000**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**		**0.1100**	**0.1100**	**2.9000e-004**		**0.1173**

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

DSRT SURF Northern Sphere SP Alternative

Salton Sea Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	500.00	Room	15.00	726,000.00	0
Other Asphalt Surfaces	2.69	Acre	2.69	117,176.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	20
Climate Zone	15			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

DSRT SURF Northern Sphere SP Alternative - Salton Sea Air Basin, Winter

Project Characteristics -

Land Use - Assumes maximum densities allowed in existing Northern Sphere SP.

Construction Phase - Assumes a 2-year buildout

Grading - Assumes 1000 CY export for conservative analysis.

Trips and VMT - Material haul location is approx. 2.5 miles north of project site.

On-road Fugitive Dust - All roads are paved.

Vehicle Trips - See project specific Traffic Report. Assumes 4180 daily trips.

Road Dust - All roads are paved.

Woodstoves -

Energy Use - Buildout will adhere to Title 24 standards.

Construction Off-road Equipment Mitigation - No mitigation required. Assumes standard dust control measures per SCAQMD Rule 403.1

Architectural Coating - Low VOC coatings and paint per SCAQMD 1113.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	100.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblConstructionPhase	NumDays	20.00	108.00
tblConstructionPhase	NumDays	300.00	482.00
tblConstructionPhase	NumDays	20.00	50.00
tblEnergyUse	NT24E	6.23	0.00
tblEnergyUse	T24E	6.47	12.70
tblGrading	AcresOfGrading	75.00	17.69
tblGrading	MaterialExported	0.00	1,000.00
tblLandUse	LotAcreage	16.67	15.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00

tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblRoadDust	RoadPercentPave	50	100
tblTripsAndVMT	HaulingTripLength	20.00	2.50
tblVehicleTrips	ST_TR	8.19	8.36
tblVehicleTrips	SU_TR	5.95	8.36
tblVehicleTrips	WD_TR	8.17	8.36

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					
2019	6.4580	55.1690	49.4510	0.1085	18.2169	2.3913	20.6082	9.9706	2.2000	12.1707	0.0000	10,853.7665	10,853.7665	1.9677	0.0000	10,898.9127
2020	4.3363	33.8770	32.3484	0.0834	3.6549	1.1997	4.8546	0.9853	1.1288	2.1140	0.0000	8,334.9521	8,334.9521	1.0422	0.0000	8,361.0058
2021	67.1128	32.6295	34.8221	0.0904	4.2489	1.0975	5.3464	1.1428	1.0374	2.1803	0.0000	9,008.6681	9,008.6681	1.0454	0.0000	9,034.8025
Maximum	**67.1128**	**55.1690**	**49.4510**	**0.1085**	**18.2169**	**2.3913**	**20.6082**	**9.9706**	**2.2000**	**12.1707**	**0.0000**	**10,853.7665**	**10,853.7665**	**1.9677**	**0.0000**	**10,898.9127**

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					
2019	6.4580	55.1690	49.4510	0.1085	7.1964	2.3913	9.5878	3.9129	2.2000	6.1129	0.0000	10,853.7665	10,853.7665	1.9677	0.0000	10,898.9127
2020	4.3363	33.8770	32.3484	0.0834	3.6549	1.1997	4.8546	0.9853	1.1288	2.1140	0.0000	8,334.9521	8,334.9521	1.0422	0.0000	8,361.0058
2021	67.1128	32.6295	34.8221	0.0904	4.2489	1.0975	5.3464	1.1428	1.0374	2.1803	0.0000	9,008.6681	9,008.6681	1.0454	0.0000	9,034.8024
Maximum	**67.1128**	**55.1690**	**49.4510**	**0.1085**	**7.1964**	**2.3913**	**9.5878**	**3.9129**	**2.2000**	**6.1129**	**0.0000**	**10,853.7665**	**10,853.7665**	**1.9677**	**0.0000**	**10,898.9127**

DSRT SURF Northern Sphere SP Alternative - Salton Sea Air Basin, Winter

	ROG	NOx	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**	**42.19**	**0.00**	**35.77**	**50.07**	**0.00**	**36.79**	**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	18.3619	4.7000e-004	0.0515	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1100	0.1100	2.9000e-004		0.1173
Energy	1.2872	11.7022	9.8298	0.0702		0.8894	0.8894		0.8894	0.8894		14,042.6301	14,042.6301	0.2692	0.2575	14,126.0785
Mobile	7.4392	72.9854	69.9310	0.2436	13.3572	0.1786	13.5359	3.5848	0.1683	3.7531		25,026.1414	25,026.1414	2.4836		25,088.2303
Total	**27.0883**	**84.6880**	**79.8124**	**0.3138**	**13.3572**	**1.0682**	**14.4254**	**3.5848**	**1.0578**	**4.6426**		**39,068.8816**	**39,068.8816**	**2.7530**	**0.2575**	**39,214.4261**

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	18.3619	4.7000e-004	0.0515	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1100	0.1100	2.9000e-004		0.1173
Energy	1.2872	11.7022	9.8298	0.0702		0.8894	0.8894		0.8894	0.8894		14,042.6301	14,042.6301	0.2692	0.2575	14,126.0785
Mobile	7.4392	72.9854	69.9310	0.2436	13.3572	0.1786	13.5359	3.5848	0.1683	3.7531		25,026.1414	25,026.1414	2.4836		25,088.2303
Total	**27.0883**	**84.6880**	**79.8124**	**0.3138**	**13.3572**	**1.0682**	**14.4254**	**3.5848**	**1.0578**	**4.6426**		**39,068.8816**	**39,068.8816**	**2.7530**	**0.2575**	**39,214.4261**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	6/14/2019	5	10	
2	Grading	Grading	6/15/2019	7/26/2019	5	30	
3	Building Construction	Building Construction	7/27/2019	6/1/2021	5	482	
4	Paving	Paving	7/27/2019	10/4/2019	5	50	
5	Architectural Coating	Architectural Coating	1/1/2021	6/1/2021	5	108	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 17.69

Acres of Paving: 2.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,089,000; Non-Residential Outdoor: 363,000; Striped Parking Area: 7,031 (Architectural Coating – sqft)

OffRoad Equipment

DSRT SURF Northern Sphere SP Alternative - Salton Sea Air Basin, Winter

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	125.00	11.00	5.40	2.50	LD_Mix	HDT_Mix	HHDT
Building Construction	9	354.00	138.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	71.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**		**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0968	0.0765	0.6624	1.3500e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		134.4593	134.4593	6.1400e-003		134.6128
Total	**0.0968**	**0.0765**	**0.6624**	**1.3500e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**134.4593**	**134.4593**	**6.1400e-003**		**134.6128**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**7.0458**	**2.3904**	**9.4362**	**3.8730**	**2.1991**	**6.0721**	**0.0000**	**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0968	0.0765	0.6624	1.3500e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		134.4593	134.4593	6.1400e-003		134.6128
Total	**0.0968**	**0.0765**	**0.6624**	**1.3500e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**134.4593**	**134.4593**	**6.1400e-003**		**134.6128**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6541	0.0000	6.6541	3.3788	0.0000	3.3788			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**6.6541**	**2.3827**	**9.0367**	**3.3788**	**2.1920**	**5.5708**		**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0140	0.5638	0.0827	9.7000e-004	9.2100e-003	7.8000e-004	9.9900e-003	2.5300e-003	7.4000e-004	3.2800e-003		102.1196	102.1196	0.0183		102.5766
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1076	0.0851	0.7361	1.5000e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		149.3992	149.3992	6.8200e-003		149.5697
Total	**0.1215**	**0.6488**	**0.8187**	**2.4700e-003**	**0.1765**	**1.8600e-003**	**0.1784**	**0.0469**	**1.7400e-003**	**0.0487**		**251.5188**	**251.5188**	**0.0251**		**252.1464**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5951	0.0000	2.5951	1.3177	0.0000	1.3177			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**2.5951**	**2.3827**	**4.9777**	**1.3177**	**2.1920**	**3.5098**	**0.0000**	**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0140	0.5638	0.0827	9.7000e-004	9.2100e-003	7.8000e-004	9.9900e-003	2.5300e-003	7.4000e-004	3.2800e-003		102.1196	102.1196	0.0183		102.5766
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1076	0.0851	0.7361	1.5000e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		149.3992	149.3992	6.8200e-003		149.5697
Total	**0.1215**	**0.6488**	**0.8187**	**2.4700e-003**	**0.1765**	**1.8600e-003**	**0.1784**	**0.0469**	**1.7400e-003**	**0.0487**		**251.5188**	**251.5188**	**0.0251**		**252.1464**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5169	14.5431	4.0423	0.0311	0.6931	0.0905	0.7835	0.1997	0.0865	0.2862		3,248.7679	3,248.7679	0.3346		3,257.1326
Worker	1.9039	1.5053	13.0281	0.0266	2.9618	0.0192	2.9810	0.7856	0.0177	0.8033		2,644.3665	2,644.3665	0.1207		2,647.3845
Total	**2.4208**	**16.0484**	**17.0704**	**0.0577**	**3.6549**	**0.1096**	**3.7645**	**0.9853**	**0.1042**	**1.0895**		**5,893.1344**	**5,893.1344**	**0.4553**		**5,904.5171**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5169	14.5431	4.0423	0.0311	0.6931	0.0905	0.7835	0.1997	0.0865	0.2862		3,248.7679	3,248.7679	0.3346		3,257.1326
Worker	1.9039	1.5053	13.0281	0.0266	2.9618	0.0192	2.9810	0.7856	0.0177	0.8033		2,644.3665	2,644.3665	0.1207		2,647.3845
Total	**2.4208**	**16.0484**	**17.0704**	**0.0577**	**3.6549**	**0.1096**	**3.7645**	**0.9853**	**0.1042**	**1.0895**		**5,893.1344**	**5,893.1344**	**0.4553**		**5,904.5171**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4526	13.3323	3.6410	0.0308	0.6931	0.0640	0.7570	0.1997	0.0612	0.2609		3,221.6335	3,221.6335	0.3104		3,229.3931
Worker	1.7639	1.3587	11.8589	0.0258	2.9618	0.0187	2.9805	0.7856	0.0172	0.8028		2,560.2556	2,560.2556	0.1089		2,562.9782
Total	**2.2165**	**14.6910**	**15.4999**	**0.0565**	**3.6549**	**0.0827**	**3.7375**	**0.9853**	**0.0784**	**1.0637**		**5,781.8891**	**5,781.8891**	**0.4193**		**5,792.3714**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4526	13.3323	3.6410	0.0308	0.6931	0.0640	0.7570	0.1997	0.0612	0.2609		3,221.6335	3,221.6335	0.3104		3,229.3931
Worker	1.7639	1.3587	11.8589	0.0258	2.9618	0.0187	2.9805	0.7856	0.0172	0.8028		2,560.2556	2,560.2556	0.1089		2,562.9782
Total	**2.2165**	**14.6910**	**15.4999**	**0.0565**	**3.6549**	**0.0827**	**3.7375**	**0.9853**	**0.0784**	**1.0637**		**5,781.8891**	**5,781.8891**	**0.4193**		**5,792.3714**

3.4 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 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	0.4004	12.1907	3.2896	0.0306	0.6930	0.0229	0.7159	0.1997	0.0219	0.2215		3,203.4936	3,203.4936	0.2903		3,210.7505
Worker	1.6457	1.2326	10.9446	0.0249	2.9618	0.0183	2.9801	0.7856	0.0168	0.8024		2,474.1373	2,474.1373	0.0998		2,476.6313
Total	**2.0461**	**13.4234**	**14.2342**	**0.0555**	**3.6548**	**0.0411**	**3.6960**	**0.9853**	**0.0387**	**1.0240**		**5,677.6309**	**5,677.6309**	**0.3900**		**5,687.3818**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 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	0.4004	12.1907	3.2896	0.0306	0.6930	0.0229	0.7159	0.1997	0.0219	0.2215		3,203.4936	3,203.4936	0.2903		3,210.7505
Worker	1.6457	1.2326	10.9446	0.0249	2.9618	0.0183	2.9801	0.7856	0.0168	0.8024		2,474.1373	2,474.1373	0.0998		2,476.6313
Total	**2.0461**	**13.4234**	**14.2342**	**0.0555**	**3.6548**	**0.0411**	**3.6960**	**0.9853**	**0.0387**	**1.0240**		**5,677.6309**	**5,677.6309**	**0.3900**		**5,687.3818**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.1410					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5954**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0807	0.0638	0.5520	1.1300e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		112.0494	112.0494	5.1200e-003		112.1773
Total	**0.0807**	**0.0638**	**0.5520**	**1.1300e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**112.0494**	**112.0494**	**5.1200e-003**		**112.1773**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.1410					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5954**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0807	0.0638	0.5520	1.1300e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		112.0494	112.0494	5.1200e-003		112.1773
Total	**0.0807**	**0.0638**	**0.5520**	**1.1300e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**112.0494**	**112.0494**	**5.1200e-003**		**112.1773**

3.6 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	62.6168					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	**62.8357**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.3301	0.2472	2.1951	4.9900e-003	0.5940	3.6600e-003	0.5977	0.1576	3.3700e-003	0.1609		496.2253	496.2253	0.0200		496.7255
Total	**0.3301**	**0.2472**	**2.1951**	**4.9900e-003**	**0.5940**	**3.6600e-003**	**0.5977**	**0.1576**	**3.3700e-003**	**0.1609**		**496.2253**	**496.2253**	**0.0200**		**496.7255**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	62.6168					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	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**62.8357**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.3301	0.2472	2.1951	4.9900e-003	0.5940	3.6600e-003	0.5977	0.1576	3.3700e-003	0.1609		496.2253	496.2253	0.0200		496.7255
Total	**0.3301**	**0.2472**	**2.1951**	**4.9900e-003**	**0.5940**	**3.6600e-003**	**0.5977**	**0.1576**	**3.3700e-003**	**0.1609**		**496.2253**	**496.2253**	**0.0200**		**496.7255**

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	7.4392	72.9854	69.9310	0.2436	13.3572	0.1786	13.5359	3.5848	0.1683	3.7531		25,026.1414	25,026.1414	2.4836		25,088.2303
Unmitigated	7.4392	72.9854	69.9310	0.2436	13.3572	0.1786	13.5359	3.5848	0.1683	3.7531		25,026.1414	25,026.1414	2.4836		25,088.2303

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Hotel	4,180.00	4,180.00	4180.00	6,207,474	6,207,474
Total	4,180.00	4,180.00	4,180.00	6,207,474	6,207,474

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Hotel	12.50	4.20	5.40	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Hotel	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.2872	11.7022	9.8298	0.0702		0.8894	0.8894		0.8894	0.8894		14,042.6301	14,042.6301	0.2692	0.2575	14,126.0785
NaturalGas Unmitigated	1.2872	11.7022	9.8298	0.0702		0.8894	0.8894		0.8894	0.8894		14,042.6301	14,042.6301	0.2692	0.2575	14,126.0785

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					
Hotel	119362	1.2872	11.7022	9.8298	0.0702		0.8894	0.8894		0.8894	0.8894		14,042.6301	14,042.6301	0.2692	0.2575	14,126.0785
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**1.2872**	**11.7022**	**9.8298**	**0.0702**		**0.8894**	**0.8894**		**0.8894**	**0.8894**		**14,042.6301**	**14,042.6301**	**0.2692**	**0.2575**	**14,126.0785**

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					
Hotel	119.362	1.2872	11.7022	9.8298	0.0702		0.8894	0.8894		0.8894	0.8894		14,042.6301	14,042.6301	0.2692	0.2575	14,126.0785
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**1.2872**	**11.7022**	**9.8298**	**0.0702**		**0.8894**	**0.8894**		**0.8894**	**0.8894**		**14,042.6301**	**14,042.6301**	**0.2692**	**0.2575**	**14,126.0785**

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	18.3619	4.7000e-004	0.0515	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1100	0.1100	2.9000e-004		0.1173
Unmitigated	18.3619	4.7000e-004	0.0515	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1100	0.1100	2.9000e-004		0.1173

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	2.7792					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.5779					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8100e-003	4.7000e-004	0.0515	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1100	0.1100	2.9000e-004		0.1173
Total	**18.3619**	**4.7000e-004**	**0.0515**	**0.0000**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**		**0.1100**	**0.1100**	**2.9000e-004**		**0.1173**

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	2.7792					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.5779					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8100e-003	4.7000e-004	0.0515	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1100	0.1100	2.9000e-004		0.1173
Total	**18.3619**	**4.7000e-004**	**0.0515**	**0.0000**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**		**0.1100**	**0.1100**	**2.9000e-004**		**0.1173**

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

DSRT SURF: GP Mixed Use Alternative

Salton Sea Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	77.10	1000sqft	1.77	77,100.00	0
Apartments Low Rise	177.00	Dwelling Unit	11.06	177,000.00	572
Other Asphalt Surfaces	4.86	Acre	4.86	211,701.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	20
Climate Zone	15			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

DSRT SURF: GP Mixed Use Alternative - Salton Sea Air Basin, Annual

Project Characteristics -

Land Use -

Construction Phase - Assumes a 2-year buildout.

Grading - Assumes 1000 CY export for conservative analysis purposes.

Trips and VMT - The material haul site is approx. 2.5 miles north of project site.

On-road Fugitive Dust - All roadways in the area are paved.

Architectural Coating - Low VOC coatings/paint per SCAQMD Rule 1113.

Vehicle Trips - See project specific Traffic Analysis for trip rate analysis. Assumes total daily trips = 3,610.

Road Dust - All roads are paved.

Woodstoves - No wood burning appliances are proposed.

Energy Use - Project will adhere to Title 24 standards.

Construction Off-road Equipment Mitigation - No mitigation. Standard dust control requirements applied per SCAQMD Rule 403.1.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	125.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	125.00
tblArchitecturalCoating	EF_Parking	150.00	125.00
tblConstructionPhase	NumDays	20.00	108.00
tblConstructionPhase	NumDays	300.00	482.00
tblConstructionPhase	NumDays	20.00	50.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	2.44	0.00
tblEnergyUse	T24E	877.14	4,049.90
tblEnergyUse	T24E	4.58	7.02
tblFireplaces	FireplaceWoodMass	2,080.00	0.00
tblGrading	AcresOfGrading	75.00	17.69
tblGrading	MaterialExported	0.00	1,000.00

tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblRoadDust	RoadPercentPave	50	100
tblTripsAndVMT	HaulingTripLength	20.00	2.50
tblVehicleTrips	ST_TR	7.16	4.46
tblVehicleTrips	ST_TR	49.97	36.57
tblVehicleTrips	SU_TR	6.07	4.46
tblVehicleTrips	SU_TR	25.24	36.57
tblVehicleTrips	WD_TR	6.59	4.46
tblVehicleTrips	WD_TR	42.70	36.57

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.3594	3.0690	2.6227	5.2200e-003	0.3266	0.1437	0.4703	0.1370	0.1338	0.2707	0.0000	470.3101	470.3101	0.0928	0.0000	472.6289
2020	0.4651	3.4773	3.5938	7.9900e-003	0.3040	0.1520	0.4560	0.0817	0.1429	0.2246	0.0000	715.0671	715.0671	0.1001	0.0000	717.5700
2021	1.7892	1.3960	1.6094	3.6100e-003	0.1467	0.0582	0.2050	0.0394	0.0550	0.0944	0.0000	322.7209	322.7209	0.0418	0.0000	323.7665
Maximum	**1.7892**	**3.4773**	**3.5938**	**7.9900e-003**	**0.3266**	**0.1520**	**0.4703**	**0.1370**	**0.1429**	**0.2707**	**0.0000**	**715.0671**	**715.0671**	**0.1001**	**0.0000**	**717.5700**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.3594	3.0690	2.6227	5.2200e-003	0.2106	0.1437	0.3543	0.0758	0.1338	0.2095	0.0000	470.3098	470.3098	0.0928	0.0000	472.6286
2020	0.4651	3.4773	3.5938	7.9900e-003	0.3040	0.1520	0.4560	0.0817	0.1429	0.2246	0.0000	715.0667	715.0667	0.1001	0.0000	717.5697
2021	1.7892	1.3960	1.6094	3.6100e-003	0.1467	0.0582	0.2050	0.0394	0.0550	0.0944	0.0000	322.7207	322.7207	0.0418	0.0000	323.7663
Maximum	**1.7892**	**3.4773**	**3.5938**	**7.9900e-003**	**0.3040**	**0.1520**	**0.4560**	**0.0817**	**0.1429**	**0.2246**	**0.0000**	**715.0667**	**715.0667**	**0.1001**	**0.0000**	**717.5697**

DSRT SURF: GP Mixed Use Alternative - Salton Sea Air Basin, Annual

	ROG	NOx	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**	**14.92**	**0.00**	**10.25**	**23.72**	**0.00**	**10.38**	**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	**6-3-2019**	**9-2-2019**	1.7986	1.7986
2	**9-3-2019**	**12-2-2019**	1.2693	1.2693
3	**12-3-2019**	**3-2-2020**	1.0062	1.0062
4	**3-3-2020**	**6-2-2020**	0.9920	0.9920
5	**6-3-2020**	**9-2-2020**	0.9945	0.9945
6	**9-3-2020**	**12-2-2020**	0.9782	0.9782
7	**12-3-2020**	**3-2-2021**	1.5944	1.5944
8	**3-3-2021**	**6-2-2021**	1.9211	1.9211
		Highest	1.9211	1.9211

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2152	0.0184	1.3192	9.0000e-005		7.5200e-003	7.5200e-003		7.5200e-003	7.5200e-003	0.0000	5.8877	5.8877	2.1600e-003	7.0000e-005	5.9620
Energy	0.0158	0.1354	0.0611	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	740.6053	740.6053	0.0271	7.8600e-003	743.6243
Mobile	1.3059	11.6883	11.2684	0.0411	2.1291	0.0280	2.1571	0.5720	0.0264	0.5984	0.0000	3,826.4709	3,826.4709	0.3406	0.0000	3,834.9854
Waste						0.0000	0.0000		0.0000	0.0000	32.9596	0.0000	32.9596	1.9479	0.0000	81.6561
Water						0.0000	0.0000		0.0000	0.0000	5.4705	109.6651	115.1355	0.5664	0.0142	133.5282
Total	**2.5369**	**11.8421**	**12.6487**	**0.0420**	**2.1291**	**0.0464**	**2.1755**	**0.5720**	**0.0448**	**0.6168**	**38.4301**	**4,682.6289**	**4,721.0590**	**2.8841**	**0.0221**	**4,799.7561**

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	1.2152	0.0184	1.3192	9.0000e-005		7.5200e-003	7.5200e-003		7.5200e-003	7.5200e-003	0.0000	5.8877	5.8877	2.1600e-003	7.0000e-005	5.9620
Energy	0.0158	0.1354	0.0611	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	740.6053	740.6053	0.0271	7.8600e-003	743.6243
Mobile	1.3059	11.6883	11.2684	0.0411	2.1291	0.0280	2.1571	0.5720	0.0264	0.5984	0.0000	3,826.4709	3,826.4709	0.3406	0.0000	3,834.9854
Waste						0.0000	0.0000		0.0000	0.0000	32.9596	0.0000	32.9596	1.9479	0.0000	81.6561
Water						0.0000	0.0000		0.0000	0.0000	5.4705	109.6651	115.1355	0.5664	0.0142	133.5282
Total	**2.5369**	**11.8421**	**12.6487**	**0.0420**	**2.1291**	**0.0464**	**2.1755**	**0.5720**	**0.0448**	**0.6168**	**38.4301**	**4,682.6289**	**4,721.0590**	**2.8841**	**0.0221**	**4,799.7561**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	6/14/2019	5	10	
2	Grading	Grading	6/15/2019	7/26/2019	5	30	
3	Building Construction	Building Construction	7/27/2019	6/1/2021	5	482	
4	Paving	Paving	7/27/2019	10/4/2019	5	50	
5	Architectural Coating	Architectural Coating	1/1/2021	6/1/2021	5	108	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 17.69

Acres of Paving: 4.86

Residential Indoor: 358,425; Residential Outdoor: 119,475; Non-Residential Indoor: 115,650; Non-Residential Outdoor: 38,550; Striped Parking Area: 12,702 (Architectural Coating – sqft)

OffRoad Equipment

DSRT SURF: GP Mixed Use Alternative - Salton Sea Air Basin, Annual

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	125.00	11.00	5.40	2.50	LD_Mix	HDT_Mix	HHDT
Building Construction	9	241.00	66.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	48.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.2279	0.1103	1.9000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195
Total	**0.0217**	**0.2279**	**0.1103**	**1.9000e-004**	**0.0903**	**0.0120**	**0.1023**	**0.0497**	**0.0110**	**0.0607**	**0.0000**	**17.0843**	**17.0843**	**5.4100e-003**	**0.0000**	**17.2195**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	4.9000e-004	3.7000e-004	3.6900e-003	1.0000e-005	7.4000e-004	0.0000	7.5000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.6564	0.6564	3.0000e-005	0.0000	0.6571
Total	**4.9000e-004**	**3.7000e-004**	**3.6900e-003**	**1.0000e-005**	**7.4000e-004**	**0.0000**	**7.5000e-004**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**0.6564**	**0.6564**	**3.0000e-005**	**0.0000**	**0.6571**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0352	0.0000	0.0352	0.0194	0.0000	0.0194	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.2279	0.1103	1.9000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195
Total	**0.0217**	**0.2279**	**0.1103**	**1.9000e-004**	**0.0352**	**0.0120**	**0.0472**	**0.0194**	**0.0110**	**0.0304**	**0.0000**	**17.0843**	**17.0843**	**5.4100e-003**	**0.0000**	**17.2195**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	4.9000e-004	3.7000e-004	3.6900e-003	1.0000e-005	7.4000e-004	0.0000	7.5000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.6564	0.6564	3.0000e-005	0.0000	0.6571
Total	**4.9000e-004**	**3.7000e-004**	**3.6900e-003**	**1.0000e-005**	**7.4000e-004**	**0.0000**	**7.5000e-004**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**0.6564**	**0.6564**	**3.0000e-005**	**0.0000**	**0.6571**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0998	0.0000	0.0998	0.0507	0.0000	0.0507	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0711	0.8178	0.5007	9.3000e-004		0.0357	0.0357		0.0329	0.0329	0.0000	83.5520	83.5520	0.0264	0.0000	84.2129
Total	**0.0711**	**0.8178**	**0.5007**	**9.3000e-004**	**0.0998**	**0.0357**	**0.1356**	**0.0507**	**0.0329**	**0.0836**	**0.0000**	**83.5520**	**83.5520**	**0.0264**	**0.0000**	**84.2129**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	8.6500e-003	1.0000e-003	2.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	1.4700	1.4700	2.3000e-004	0.0000	1.4758
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6400e-003	1.2500e-003	0.0123	2.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	2.1879	2.1879	1.0000e-004	0.0000	2.1904
Total	**1.8400e-003**	**9.9000e-003**	**0.0133**	**4.0000e-005**	**2.6200e-003**	**3.0000e-005**	**2.6500e-003**	**7.0000e-004**	**2.0000e-005**	**7.2000e-004**	**0.0000**	**3.6579**	**3.6579**	**3.3000e-004**	**0.0000**	**3.6662**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0389	0.0000	0.0389	0.0198	0.0000	0.0198	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0711	0.8178	0.5007	9.3000e-004		0.0357	0.0357		0.0329	0.0329	0.0000	83.5519	83.5519	0.0264	0.0000	84.2128
Total	**0.0711**	**0.8178**	**0.5007**	**9.3000e-004**	**0.0389**	**0.0357**	**0.0747**	**0.0198**	**0.0329**	**0.0527**	**0.0000**	**83.5519**	**83.5519**	**0.0264**	**0.0000**	**84.2128**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	8.6500e-003	1.0000e-003	2.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	1.4700	1.4700	2.3000e-004	0.0000	1.4758
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6400e-003	1.2500e-003	0.0123	2.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	2.1879	2.1879	1.0000e-004	0.0000	2.1904
Total	**1.8400e-003**	**9.9000e-003**	**0.0133**	**4.0000e-005**	**2.6200e-003**	**3.0000e-005**	**2.6500e-003**	**7.0000e-004**	**2.0000e-005**	**7.2000e-004**	**0.0000**	**3.6579**	**3.6579**	**3.3000e-004**	**0.0000**	**3.6662**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1322	1.1804	0.9612	1.5100e-003		0.0722	0.0722		0.0679	0.0679	0.0000	131.6584	131.6584	0.0321	0.0000	132.4602
Total	**0.1322**	**1.1804**	**0.9612**	**1.5100e-003**		**0.0722**	**0.0722**		**0.0679**	**0.0679**	**0.0000**	**131.6584**	**131.6584**	**0.0321**	**0.0000**	**132.4602**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0133	0.3937	0.0981	8.6000e-004	0.0184	2.4000e-003	0.0208	5.3000e-003	2.2900e-003	7.6000e-003	0.0000	81.3544	81.3544	7.6100e-003	0.0000	81.5447
Worker	0.0740	0.0562	0.5535	1.0900e-003	0.1116	7.3000e-004	0.1123	0.0296	6.7000e-004	0.0303	0.0000	98.4241	98.4241	4.5400e-003	0.0000	98.5376
Total	**0.0873**	**0.4499**	**0.6516**	**1.9500e-003**	**0.1300**	**3.1300e-003**	**0.1331**	**0.0349**	**2.9600e-003**	**0.0379**	**0.0000**	**179.7785**	**179.7785**	**0.0122**	**0.0000**	**180.0823**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1322	1.1804	0.9612	1.5100e-003		0.0722	0.0722		0.0679	0.0679	0.0000	131.6582	131.6582	0.0321	0.0000	132.4600
Total	**0.1322**	**1.1804**	**0.9612**	**1.5100e-003**		**0.0722**	**0.0722**		**0.0679**	**0.0679**	**0.0000**	**131.6582**	**131.6582**	**0.0321**	**0.0000**	**132.4600**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0133	0.3937	0.0981	8.6000e-004	0.0184	2.4000e-003	0.0208	5.3000e-003	2.2900e-003	7.6000e-003	0.0000	81.3544	81.3544	7.6100e-003	0.0000	81.5447
Worker	0.0740	0.0562	0.5535	1.0900e-003	0.1116	7.3000e-004	0.1123	0.0296	6.7000e-004	0.0303	0.0000	98.4241	98.4241	4.5400e-003	0.0000	98.5376
Total	**0.0873**	**0.4499**	**0.6516**	**1.9500e-003**	**0.1300**	**3.1300e-003**	**0.1331**	**0.0349**	**2.9600e-003**	**0.0379**	**0.0000**	**179.7785**	**179.7785**	**0.0122**	**0.0000**	**180.0823**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	**0.2777**	**2.5134**	**2.2072**	**3.5300e-003**		**0.1463**	**0.1463**		**0.1376**	**0.1376**	**0.0000**	**303.4091**	**303.4091**	**0.0740**	**0.0000**	**305.2596**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0272	0.8451	0.2060	1.9900e-003	0.0430	3.9600e-003	0.0470	0.0124	3.7900e-003	0.0162	0.0000	188.7366	188.7366	0.0165	0.0000	189.1492
Worker	0.1602	0.1188	1.1806	2.4700e-003	0.2610	1.6700e-003	0.2627	0.0693	1.5400e-003	0.0708	0.0000	222.9215	222.9215	9.5900e-003	0.0000	223.1613
Total	**0.1874**	**0.9639**	**1.3866**	**4.4600e-003**	**0.3040**	**5.6300e-003**	**0.3096**	**0.0817**	**5.3300e-003**	**0.0870**	**0.0000**	**411.6580**	**411.6580**	**0.0261**	**0.0000**	**412.3104**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	**0.2777**	**2.5134**	**2.2072**	**3.5300e-003**		**0.1463**	**0.1463**		**0.1376**	**0.1376**	**0.0000**	**303.4087**	**303.4087**	**0.0740**	**0.0000**	**305.2592**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0272	0.8451	0.2060	1.9900e-003	0.0430	3.9600e-003	0.0470	0.0124	3.7900e-003	0.0162	0.0000	188.7366	188.7366	0.0165	0.0000	189.1492
Worker	0.1602	0.1188	1.1806	2.4700e-003	0.2610	1.6700e-003	0.2627	0.0693	1.5400e-003	0.0708	0.0000	222.9215	222.9215	9.5900e-003	0.0000	223.1613
Total	**0.1874**	**0.9639**	**1.3866**	**4.4600e-003**	**0.3040**	**5.6300e-003**	**0.3096**	**0.0817**	**5.3300e-003**	**0.0870**	**0.0000**	**411.6580**	**411.6580**	**0.0261**	**0.0000**	**412.3104**

3.4 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	0.1027	0.9413	0.8951	1.4500e-003		0.0518	0.0518		0.0487	0.0487	0.0000	125.0841	125.0841	0.0302	0.0000	125.8386
Total	**0.1027**	**0.9413**	**0.8951**	**1.4500e-003**		**0.0518**	**0.0518**		**0.0487**	**0.0487**	**0.0000**	**125.0841**	**125.0841**	**0.0302**	**0.0000**	**125.8386**

3.4 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	9.9000e-003	0.3189	0.0763	8.1000e-004	0.0177	5.7000e-004	0.0183	5.1100e-003	5.5000e-004	5.6600e-003	0.0000	77.3637	77.3637	6.3600e-003	0.0000	77.5226
Worker	0.0615	0.0445	0.4502	9.8000e-004	0.1076	6.7000e-004	0.1083	0.0286	6.2000e-004	0.0292	0.0000	88.7993	88.7993	3.6200e-003	0.0000	88.8899
Total	**0.0714**	**0.3633**	**0.5265**	**1.7900e-003**	**0.1253**	**1.2400e-003**	**0.1266**	**0.0337**	**1.1700e-003**	**0.0348**	**0.0000**	**166.1630**	**166.1630**	**9.9800e-003**	**0.0000**	**166.4125**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1027	0.9413	0.8951	1.4500e-003		0.0518	0.0518		0.0487	0.0487	0.0000	125.0840	125.0840	0.0302	0.0000	125.8384
Total	**0.1027**	**0.9413**	**0.8951**	**1.4500e-003**		**0.0518**	**0.0518**		**0.0487**	**0.0487**	**0.0000**	**125.0840**	**125.0840**	**0.0302**	**0.0000**	**125.8384**

3.4 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	9.9000e-003	0.3189	0.0763	8.1000e-004	0.0177	5.7000e-004	0.0183	5.1100e-003	5.5000e-004	5.6600e-003	0.0000	77.3637	77.3637	6.3600e-003	0.0000	77.5226
Worker	0.0615	0.0445	0.4502	9.8000e-004	0.1076	6.7000e-004	0.1083	0.0286	6.2000e-004	0.0292	0.0000	88.7993	88.7993	3.6200e-003	0.0000	88.8899
Total	**0.0714**	**0.3633**	**0.5265**	**1.7900e-003**	**0.1253**	**1.2400e-003**	**0.1266**	**0.0337**	**1.1700e-003**	**0.0348**	**0.0000**	**166.1630**	**166.1630**	**9.9800e-003**	**0.0000**	**166.4125**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0364	0.3811	0.3666	5.7000e-004		0.0206	0.0206		0.0190	0.0190	0.0000	51.1880	51.1880	0.0162	0.0000	51.5928
Paving	6.3700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0427**	**0.3811**	**0.3666**	**5.7000e-004**		**0.0206**	**0.0206**		**0.0190**	**0.0190**	**0.0000**	**51.1880**	**51.1880**	**0.0162**	**0.0000**	**51.5928**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	2.0600e-003	1.5600e-003	0.0154	3.0000e-005	3.1000e-003	2.0000e-005	3.1200e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.7348	2.7348	1.3000e-004	0.0000	2.7380
Total	**2.0600e-003**	**1.5600e-003**	**0.0154**	**3.0000e-005**	**3.1000e-003**	**2.0000e-005**	**3.1200e-003**	**8.2000e-004**	**2.0000e-005**	**8.4000e-004**	**0.0000**	**2.7348**	**2.7348**	**1.3000e-004**	**0.0000**	**2.7380**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0364	0.3811	0.3666	5.7000e-004		0.0206	0.0206		0.0190	0.0190	0.0000	51.1879	51.1879	0.0162	0.0000	51.5928
Paving	6.3700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0427**	**0.3811**	**0.3666**	**5.7000e-004**		**0.0206**	**0.0206**		**0.0190**	**0.0190**	**0.0000**	**51.1879**	**51.1879**	**0.0162**	**0.0000**	**51.5928**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	2.0600e-003	1.5600e-003	0.0154	3.0000e-005	3.1000e-003	2.0000e-005	3.1200e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.7348	2.7348	1.3000e-004	0.0000	2.7380
Total	**2.0600e-003**	**1.5600e-003**	**0.0154**	**3.0000e-005**	**3.1000e-003**	**2.0000e-005**	**3.1200e-003**	**8.2000e-004**	**2.0000e-005**	**8.4000e-004**	**0.0000**	**2.7348**	**2.7348**	**1.3000e-004**	**0.0000**	**2.7380**

3.6 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	1.5910					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0118	0.0825	0.0982	1.6000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003	0.0000	13.7876	13.7876	9.5000e-004	0.0000	13.8112
Total	**1.6029**	**0.0825**	**0.0982**	**1.6000e-004**		**5.0800e-003**	**5.0800e-003**		**5.0800e-003**	**5.0800e-003**	**0.0000**	**13.7876**	**13.7876**	**9.5000e-004**	**0.0000**	**13.8112**

3.6 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	0.0123	8.8500e-003	0.0897	2.0000e-004	0.0214	1.3000e-004	0.0216	5.6900e-003	1.2000e-004	5.8100e-003	0.0000	17.6862	17.6862	7.2000e-004	0.0000	17.7042
Total	**0.0123**	**8.8500e-003**	**0.0897**	**2.0000e-004**	**0.0214**	**1.3000e-004**	**0.0216**	**5.6900e-003**	**1.2000e-004**	**5.8100e-003**	**0.0000**	**17.6862**	**17.6862**	**7.2000e-004**	**0.0000**	**17.7042**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5910					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0118	0.0825	0.0982	1.6000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003	0.0000	13.7876	13.7876	9.5000e-004	0.0000	13.8112
Total	**1.6029**	**0.0825**	**0.0982**	**1.6000e-004**		**5.0800e-003**	**5.0800e-003**		**5.0800e-003**	**5.0800e-003**	**0.0000**	**13.7876**	**13.7876**	**9.5000e-004**	**0.0000**	**13.8112**

3.6 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	0.0123	8.8500e-003	0.0897	2.0000e-004	0.0214	1.3000e-004	0.0216	5.6900e-003	1.2000e-004	5.8100e-003	0.0000	17.6862	17.6862	7.2000e-004	0.0000	17.7042
Total	**0.0123**	**8.8500e-003**	**0.0897**	**2.0000e-004**	**0.0214**	**1.3000e-004**	**0.0216**	**5.6900e-003**	**1.2000e-004**	**5.8100e-003**	**0.0000**	**17.6862**	**17.6862**	**7.2000e-004**	**0.0000**	**17.7042**

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	1.3059	11.6883	11.2684	0.0411	2.1291	0.0280	2.1571	0.5720	0.0264	0.5984	0.0000	3,826.4709	3,826.4709	0.3406	0.0000	3,834.9854
Unmitigated	1.3059	11.6883	11.2684	0.0411	2.1291	0.0280	2.1571	0.5720	0.0264	0.5984	0.0000	3,826.4709	3,826.4709	0.3406	0.0000	3,834.9854

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	789.42	789.42	789.42	1,765,870	1,765,870
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	2,819.55	2,819.55	2819.55	3,734,263	3,734,263
Total	3,608.97	3,608.97	3,608.97	5,500,133	5,500,133

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
Apartments Low Rise	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Regional Shopping Center	12.50	4.20	5.40	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Other Asphalt Surfaces	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Regional Shopping Center	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871

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	584.3641	584.3641	0.0241	4.9900e-003	586.4547
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	584.3641	584.3641	0.0241	4.9900e-003	586.4547
NaturalGas Mitigated	0.0158	0.1354	0.0611	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	156.2412	156.2412	2.9900e-003	2.8600e-003	157.1696
NaturalGas Unmitigated	0.0158	0.1354	0.0611	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	156.2412	156.2412	2.9900e-003	2.8600e-003	157.1696

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	2.75669e+006	0.0149	0.1270	0.0541	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.1073	147.1073	2.8200e-003	2.7000e-003	147.9815
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	171162	9.2000e-004	8.3900e-003	7.0500e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	9.1339	9.1339	1.8000e-004	1.7000e-004	9.1881
Total		**0.0158**	**0.1354**	**0.0611**	**8.6000e-004**		**0.0109**	**0.0109**		**0.0109**	**0.0109**	**0.0000**	**156.2412**	**156.2412**	**3.0000e-003**	**2.8700e-003**	**157.1696**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	2.75669e+006	0.0149	0.1270	0.0541	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.1073	147.1073	2.8200e-003	2.7000e-003	147.9815
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	171162	9.2000e-004	8.3900e-003	7.0500e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	9.1339	9.1339	1.8000e-004	1.7000e-004	9.1881
Total		**0.0158**	**0.1354**	**0.0611**	**8.6000e-004**		**0.0109**	**0.0109**		**0.0109**	**0.0109**	**0.0000**	**156.2412**	**156.2412**	**3.0000e-003**	**2.8700e-003**	**157.1696**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	860266	274.0992	0.0113	2.3400e-003	275.0798
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	973773	310.2649	0.0128	2.6500e-003	311.3749
Total		**584.3641**	**0.0241**	**4.9900e-003**	**586.4547**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	860266	274.0992	0.0113	2.3400e-003	275.0798
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	973773	310.2649	0.0128	2.6500e-003	311.3749
Total		**584.3641**	**0.0241**	**4.9900e-003**	**586.4547**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2152	0.0184	1.3192	9.0000e-005		7.5200e-003	7.5200e-003		7.5200e-003	7.5200e-003	0.0000	5.8877	5.8877	2.1600e-003	7.0000e-005	5.9620
Unmitigated	1.2152	0.0184	1.3192	9.0000e-005		7.5200e-003	7.5200e-003		7.5200e-003	7.5200e-003	0.0000	5.8877	5.8877	2.1600e-003	7.0000e-005	5.9620

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	0.1688					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0061					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.8000e-004	3.2300e-003	1.3700e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	3.7394	3.7394	7.0000e-005	7.0000e-005	3.7617
Landscaping	0.0400	0.0152	1.3179	7.0000e-005		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003	0.0000	2.1483	2.1483	2.0800e-003	0.0000	2.2004
Total	**1.2152**	**0.0184**	**1.3192**	**9.0000e-005**		**7.5200e-003**	**7.5200e-003**		**7.5200e-003**	**7.5200e-003**	**0.0000**	**5.8877**	**5.8877**	**2.1500e-003**	**7.0000e-005**	**5.9620**

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	0.1688					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0061					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.8000e-004	3.2300e-003	1.3700e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	3.7394	3.7394	7.0000e-005	7.0000e-005	3.7617
Landscaping	0.0400	0.0152	1.3179	7.0000e-005		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003	0.0000	2.1483	2.1483	2.0800e-003	0.0000	2.2004
Total	**1.2152**	**0.0184**	**1.3192**	**9.0000e-005**		**7.5200e-003**	**7.5200e-003**		**7.5200e-003**	**7.5200e-003**	**0.0000**	**5.8877**	**5.8877**	**2.1500e-003**	**7.0000e-005**	**5.9620**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	115.1355	0.5664	0.0142	133.5282
Unmitigated	115.1355	0.5664	0.0142	133.5282

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	11.5323 / 7.27034	77.2395	0.3788	9.5000e-003	89.5414
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	5.71099 / 3.50029	37.8960	0.1876	4.7000e-003	43.9869
Total		**115.1355**	**0.5664**	**0.0142**	**133.5282**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	11.5323 / 7.27034	77.2395	0.3788	9.5000e-003	89.5414
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	5.71099 / 3.50029	37.8960	0.1876	4.7000e-003	43.9869
Total		**115.1355**	**0.5664**	**0.0142**	**133.5282**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	32.9596	1.9479	0.0000	81.6561
Unmitigated	32.9596	1.9479	0.0000	81.6561

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	81.42	16.5275	0.9768	0.0000	40.9462
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	80.95	16.4321	0.9711	0.0000	40.7099
Total		**32.9596**	**1.9479**	**0.0000**	**81.6561**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	81.42	16.5275	0.9768	0.0000	40.9462
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	80.95	16.4321	0.9711	0.0000	40.7099
Total		**32.9596**	**1.9479**	**0.0000**	**81.6561**

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

DSRT SURF: GP Mixed Use Alternative

Salton Sea Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	77.10	1000sqft	1.77	77,100.00	0
Apartments Low Rise	177.00	Dwelling Unit	11.06	177,000.00	572
Other Asphalt Surfaces	4.86	Acre	4.86	211,701.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	20
Climate Zone	15			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

DSRT SURF: GP Mixed Use Alternative - Salton Sea Air Basin, Summer

Project Characteristics -

Land Use -

Construction Phase - Assumes a 2-year buildout.

Grading - Assumes 1000 CY export for conservative analysis purposes.

Trips and VMT - The material haul site is approx. 2.5 miles north of project site.

On-road Fugitive Dust - All roadways in the area are paved.

Architectural Coating - Low VOC coatings/paint per SCAQMD Rule 1113.

Vehicle Trips - See project specific Traffic Analysis for trip rate analysis. Assumes total daily trips = 3,610.

Road Dust - All roads are paved.

Woodstoves - No wood burning appliances are proposed.

Energy Use - Project will adhere to Title 24 standards.

Construction Off-road Equipment Mitigation - No mitigation. Standard dust control requirements applied per SCAQMD Rule 403.1.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	125.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	125.00
tblArchitecturalCoating	EF_Parking	150.00	125.00
tblConstructionPhase	NumDays	20.00	108.00
tblConstructionPhase	NumDays	300.00	482.00
tblConstructionPhase	NumDays	20.00	50.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	2.44	0.00
tblEnergyUse	T24E	877.14	4,049.90
tblEnergyUse	T24E	4.58	7.02
tblFireplaces	FireplaceWoodMass	2,080.00	0.00
tblGrading	AcresOfGrading	75.00	17.69
tblGrading	MaterialExported	0.00	1,000.00

tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblRoadDust	RoadPercentPave	50	100
tblTripsAndVMT	HaulingTripLength	20.00	2.50
tblVehicleTrips	ST_TR	7.16	4.46
tblVehicleTrips	ST_TR	49.97	36.57
tblVehicleTrips	SU_TR	6.07	4.46
tblVehicleTrips	SU_TR	25.24	36.57
tblVehicleTrips	WD_TR	6.59	4.46
tblVehicleTrips	WD_TR	42.70	36.57

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					
2019	5.9829	55.1840	46.5910	0.0883	18.2169	2.3913	20.6082	9.9706	2.2000	12.1707	0.0000	8,760.2769	8,760.2769	1.9674	0.0000	8,800.2424
2020	3.7831	26.4857	29.5883	0.0633	2.3478	1.1598	3.5076	0.6303	1.0908	1.7211	0.0000	6,249.8932	6,249.8932	0.8488	0.0000	6,271.1134
2021	33.3888	25.8151	32.2235	0.0695	2.7494	1.0781	3.8275	0.7368	1.0191	1.7559	0.0000	6,852.0446	6,852.0446	0.8616	0.0000	6,873.5840
Maximum	**33.3888**	**55.1840**	**46.5910**	**0.0883**	**18.2169**	**2.3913**	**20.6082**	**9.9706**	**2.2000**	**12.1707**	**0.0000**	**8,760.2769**	**8,760.2769**	**1.9674**	**0.0000**	**8,800.2424**

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					
2019	5.9829	55.1840	46.5910	0.0883	7.1964	2.3913	9.5878	3.9129	2.2000	6.1129	0.0000	8,760.2769	8,760.2769	1.9674	0.0000	8,800.2424
2020	3.7831	26.4857	29.5883	0.0633	2.3478	1.1598	3.5076	0.6303	1.0908	1.7211	0.0000	6,249.8932	6,249.8932	0.8488	0.0000	6,271.1134
2021	33.3888	25.8151	32.2235	0.0695	2.7494	1.0781	3.8275	0.7368	1.0191	1.7559	0.0000	6,852.0446	6,852.0446	0.8616	0.0000	6,873.5840
Maximum	**33.3888**	**55.1840**	**46.5910**	**0.0883**	**7.1964**	**2.3913**	**9.5878**	**3.9129**	**2.2000**	**6.1129**	**0.0000**	**8,760.2769**	**8,760.2769**	**1.9674**	**0.0000**	**8,800.2424**

DSRT SURF: GP Mixed Use Alternative - Salton Sea Air Basin, Summer

	ROG	NOx	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**	**47.27**	**0.00**	**39.44**	**53.43**	**0.00**	**38.71**	**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	7.0574	1.6708	15.2819	0.0104		0.2021	0.2021		0.2021	0.2021	0.0000	1,943.5341	1,943.5341	0.0623	0.0352	1,955.5654
Energy	0.0865	0.7420	0.3348	4.7200e-003		0.0598	0.0598		0.0598	0.0598		943.7062	943.7062	0.0181	0.0173	949.3142
Mobile	8.9634	64.3293	71.1659	0.2396	11.8352	0.1518	11.9870	3.1763	0.1430	3.3193		24,574.7457	24,574.7457	2.0390		24,625.7216
Total	**16.1073**	**66.7421**	**86.7827**	**0.2547**	**11.8352**	**0.4137**	**12.2489**	**3.1763**	**0.4049**	**3.5812**	**0.0000**	**27,461.9860**	**27,461.9860**	**2.1194**	**0.0525**	**27,530.6011**

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	7.0574	1.6708	15.2819	0.0104		0.2021	0.2021		0.2021	0.2021	0.0000	1,943.5341	1,943.5341	0.0623	0.0352	1,955.5654
Energy	0.0865	0.7420	0.3348	4.7200e-003		0.0598	0.0598		0.0598	0.0598		943.7062	943.7062	0.0181	0.0173	949.3142
Mobile	8.9634	64.3293	71.1659	0.2396	11.8352	0.1518	11.9870	3.1763	0.1430	3.3193		24,574.7457	24,574.7457	2.0390		24,625.7216
Total	**16.1073**	**66.7421**	**86.7827**	**0.2547**	**11.8352**	**0.4137**	**12.2489**	**3.1763**	**0.4049**	**3.5812**	**0.0000**	**27,461.9860**	**27,461.9860**	**2.1194**	**0.0525**	**27,530.6011**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	6/14/2019	5	10	
2	Grading	Grading	6/15/2019	7/26/2019	5	30	
3	Building Construction	Building Construction	7/27/2019	6/1/2021	5	482	
4	Paving	Paving	7/27/2019	10/4/2019	5	50	
5	Architectural Coating	Architectural Coating	1/1/2021	6/1/2021	5	108	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 17.69

Acres of Paving: 4.86

Residential Indoor: 358,425; Residential Outdoor: 119,475; Non-Residential Indoor: 115,650; Non-Residential Outdoor: 38,550; Striped Parking Area: 12,702 (Architectural Coating – sqft)

OffRoad Equipment

DSRT SURF: GP Mixed Use Alternative - Salton Sea Air Basin, Summer

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	125.00	11.00	5.40	2.50	LD_Mix	HDT_Mix	HHDT
Building Construction	9	241.00	66.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	48.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**		**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1179	0.0742	0.9228	1.6100e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		160.0181	160.0181	7.7700e-003		160.2123
Total	**0.1179**	**0.0742**	**0.9228**	**1.6100e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**160.0181**	**160.0181**	**7.7700e-003**		**160.2123**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**7.0458**	**2.3904**	**9.4362**	**3.8730**	**2.1991**	**6.0721**	**0.0000**	**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1179	0.0742	0.9228	1.6100e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		160.0181	160.0181	7.7700e-003		160.2123
Total	**0.1179**	**0.0742**	**0.9228**	**1.6100e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**160.0181**	**160.0181**	**7.7700e-003**		**160.2123**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6541	0.0000	6.6541	3.3788	0.0000	3.3788			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**6.6541**	**2.3827**	**9.0367**	**3.3788**	**2.1920**	**5.5708**		**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0125	0.5814	0.0554	1.0700e-003	9.2100e-003	7.0000e-004	9.9100e-003	2.5300e-003	6.7000e-004	3.2000e-003		112.3051	112.3051	0.0162		112.7090
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1310	0.0824	1.0254	1.7900e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		177.7979	177.7979	8.6300e-003		178.0136
Total	**0.1435**	**0.6638**	**1.0808**	**2.8600e-003**	**0.1765**	**1.7800e-003**	**0.1783**	**0.0469**	**1.6700e-003**	**0.0486**		**290.1030**	**290.1030**	**0.0248**		**290.7227**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5951	0.0000	2.5951	1.3177	0.0000	1.3177			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**2.5951**	**2.3827**	**4.9777**	**1.3177**	**2.1920**	**3.5098**	**0.0000**	**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0125	0.5814	0.0554	1.0700e-003	9.2100e-003	7.0000e-004	9.9100e-003	2.5300e-003	6.7000e-004	3.2000e-003		112.3051	112.3051	0.0162		112.7090
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1310	0.0824	1.0254	1.7900e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		177.7979	177.7979	8.6300e-003		178.0136
Total	**0.1435**	**0.6638**	**1.0808**	**2.8600e-003**	**0.1765**	**1.7800e-003**	**0.1783**	**0.0469**	**1.6700e-003**	**0.0486**		**290.1030**	**290.1030**	**0.0248**		**290.7227**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2358	6.9570	1.6378	0.0156	0.3315	0.0425	0.3739	0.0955	0.0406	0.1361		1,635.8815	1,635.8815	0.1427		1,639.4499
Worker	1.5786	0.9931	12.3556	0.0216	2.0164	0.0131	2.0294	0.5348	0.0120	0.5469		2,142.4644	2,142.4644	0.1040		2,145.0640
Total	**1.8144**	**7.9502**	**13.9934**	**0.0372**	**2.3479**	**0.0555**	**2.4034**	**0.6303**	**0.0527**	**0.6830**		**3,778.3459**	**3,778.3459**	**0.2467**		**3,784.5139**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2358	6.9570	1.6378	0.0156	0.3315	0.0425	0.3739	0.0955	0.0406	0.1361		1,635.8815	1,635.8815	0.1427		1,639.4499
Worker	1.5786	0.9931	12.3556	0.0216	2.0164	0.0131	2.0294	0.5348	0.0120	0.5469		2,142.4644	2,142.4644	0.1040		2,145.0640
Total	**1.8144**	**7.9502**	**13.9934**	**0.0372**	**2.3479**	**0.0555**	**2.4034**	**0.6303**	**0.0527**	**0.6830**		**3,778.3459**	**3,778.3459**	**0.2467**		**3,784.5139**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2057	6.4023	1.4650	0.0155	0.3315	0.0300	0.3615	0.0955	0.0287	0.1242		1,622.4346	1,622.4346	0.1322		1,625.7388
Worker	1.4576	0.8974	11.2748	0.0209	2.0164	0.0127	2.0291	0.5348	0.0117	0.5466		2,074.3955	2,074.3955	0.0938		2,076.7401
Total	**1.6633**	**7.2997**	**12.7398**	**0.0364**	**2.3478**	**0.0427**	**2.3906**	**0.6303**	**0.0404**	**0.6708**		**3,696.8302**	**3,696.8302**	**0.2260**		**3,702.4789**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2057	6.4023	1.4650	0.0155	0.3315	0.0300	0.3615	0.0955	0.0287	0.1242		1,622.4346	1,622.4346	0.1322		1,625.7388
Worker	1.4576	0.8974	11.2748	0.0209	2.0164	0.0127	2.0291	0.5348	0.0117	0.5466		2,074.3955	2,074.3955	0.0938		2,076.7401
Total	**1.6633**	**7.2997**	**12.7398**	**0.0364**	**2.3478**	**0.0427**	**2.3906**	**0.6303**	**0.0404**	**0.6708**		**3,696.8302**	**3,696.8302**	**0.2260**		**3,702.4789**

3.4 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 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	0.1812	5.8789	1.3123	0.0154	0.3315	0.0104	0.3419	0.0955	9.9800e-003	0.1055		1,613.3695	1,613.3695	0.1234		1,616.4539
Worker	1.3546	0.8150	10.4393	0.0202	2.0164	0.0124	2.0288	0.5348	0.0114	0.5463		2,004.6056	2,004.6056	0.0858		2,006.7502
Total	**1.5357**	**6.6939**	**11.7516**	**0.0356**	**2.3478**	**0.0229**	**2.3707**	**0.6303**	**0.0214**	**0.6517**		**3,617.9751**	**3,617.9751**	**0.2092**		**3,623.2041**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 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	0.1812	5.8789	1.3123	0.0154	0.3315	0.0104	0.3419	0.0955	9.9800e-003	0.1055		1,613.3695	1,613.3695	0.1234		1,616.4539
Worker	1.3546	0.8150	10.4393	0.0202	2.0164	0.0124	2.0288	0.5348	0.0114	0.5463		2,004.6056	2,004.6056	0.0858		2,006.7502
Total	**1.5357**	**6.6939**	**11.7516**	**0.0356**	**2.3478**	**0.0229**	**2.3707**	**0.6303**	**0.0214**	**0.6517**		**3,617.9751**	**3,617.9751**	**0.2092**		**3,623.2041**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.2547					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7091**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0983	0.0618	0.7690	1.3400e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		133.3484	133.3484	6.4700e-003		133.5102
Total	**0.0983**	**0.0618**	**0.7690**	**1.3400e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**133.3484**	**133.3484**	**6.4700e-003**		**133.5102**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.2547					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7091**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0983	0.0618	0.7690	1.3400e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		133.3484	133.3484	6.4700e-003		133.5102
Total	**0.0983**	**0.0618**	**0.7690**	**1.3400e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**133.3484**	**133.3484**	**6.4700e-003**		**133.5102**

3.6 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	29.4635					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	**29.6824**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.2698	0.1623	2.0792	4.0200e-003	0.4016	2.4700e-003	0.4041	0.1065	2.2800e-003	0.1088		399.2575	399.2575	0.0171		399.6847
Total	**0.2698**	**0.1623**	**2.0792**	**4.0200e-003**	**0.4016**	**2.4700e-003**	**0.4041**	**0.1065**	**2.2800e-003**	**0.1088**		**399.2575**	**399.2575**	**0.0171**		**399.6847**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	29.4635					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	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**29.6824**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.2698	0.1623	2.0792	4.0200e-003	0.4016	2.4700e-003	0.4041	0.1065	2.2800e-003	0.1088		399.2575	399.2575	0.0171		399.6847
Total	**0.2698**	**0.1623**	**2.0792**	**4.0200e-003**	**0.4016**	**2.4700e-003**	**0.4041**	**0.1065**	**2.2800e-003**	**0.1088**		**399.2575**	**399.2575**	**0.0171**		**399.6847**

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	8.9634	64.3293	71.1659	0.2396	11.8352	0.1518	11.9870	3.1763	0.1430	3.3193		24,574.7457	24,574.7457	2.0390		24,625.7216
Unmitigated	8.9634	64.3293	71.1659	0.2396	11.8352	0.1518	11.9870	3.1763	0.1430	3.3193		24,574.7457	24,574.7457	2.0390		24,625.7216

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	789.42	789.42	789.42	1,765,870	1,765,870
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	2,819.55	2,819.55	2819.55	3,734,263	3,734,263
Total	3,608.97	3,608.97	3,608.97	5,500,133	5,500,133

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
Apartments Low Rise	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Regional Shopping Center	12.50	4.20	5.40	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Other Asphalt Surfaces	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Regional Shopping Center	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871

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	0.0865	0.7420	0.3348	4.7200e-003		0.0598	0.0598		0.0598	0.0598		943.7062	943.7062	0.0181	0.0173	949.3142
NaturalGas Unmitigated	0.0865	0.7420	0.3348	4.7200e-003		0.0598	0.0598		0.0598	0.0598		943.7062	943.7062	0.0181	0.0173	949.3142

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	7552.57	0.0815	0.6960	0.2962	4.4400e-003		0.0563	0.0563		0.0563	0.0563		888.5372	888.5372	0.0170	0.0163	893.8173
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	468.937	5.0600e-003	0.0460	0.0386	2.8000e-004		3.4900e-003	3.4900e-003		3.4900e-003	3.4900e-003		55.1691	55.1691	1.0600e-003	1.0100e-003	55.4969
Total		**0.0865**	**0.7420**	**0.3348**	**4.7200e-003**		**0.0598**	**0.0598**		**0.0598**	**0.0598**		**943.7062**	**943.7062**	**0.0181**	**0.0173**	**949.3142**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	7.55257	0.0815	0.6960	0.2962	4.4400e-003		0.0563	0.0563		0.0563	0.0563		888.5372	888.5372	0.0170	0.0163	893.8173
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.468937	5.0600e-003	0.0460	0.0386	2.8000e-004		3.4900e-003	3.4900e-003		3.4900e-003	3.4900e-003		55.1691	55.1691	1.0600e-003	1.0100e-003	55.4969
Total		**0.0865**	**0.7420**	**0.3348**	**4.7200e-003**		**0.0598**	**0.0598**		**0.0598**	**0.0598**		**943.7062**	**943.7062**	**0.0181**	**0.0173**	**949.3142**

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	7.0574	1.6708	15.2819	0.0104		0.2021	0.2021		0.2021	0.2021	0.0000	1,943.5341	1,943.5341	0.0623	0.0352	1,955.5654
Unmitigated	7.0574	1.6708	15.2819	0.0104		0.2021	0.2021		0.2021	0.2021	0.0000	1,943.5341	1,943.5341	0.0623	0.0352	1,955.5654

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	0.9248					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.5127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1758	1.5018	0.6391	9.5900e-003		0.1214	0.1214		0.1214	0.1214	0.0000	1,917.2224	1,917.2224	0.0368	0.0352	1,928.6155
Landscaping	0.4442	0.1690	14.6429	7.7000e-004		0.0807	0.0807		0.0807	0.0807		26.3117	26.3117	0.0255		26.9499
Total	**7.0574**	**1.6708**	**15.2819**	**0.0104**		**0.2021**	**0.2021**		**0.2021**	**0.2021**	**0.0000**	**1,943.5341**	**1,943.5341**	**0.0623**	**0.0352**	**1,955.5654**

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	0.9248					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.5127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1758	1.5018	0.6391	9.5900e-003		0.1214	0.1214		0.1214	0.1214	0.0000	1,917.2224	1,917.2224	0.0368	0.0352	1,928.6155
Landscaping	0.4442	0.1690	14.6429	7.7000e-004		0.0807	0.0807		0.0807	0.0807		26.3117	26.3117	0.0255		26.9499
Total	**7.0574**	**1.6708**	**15.2819**	**0.0104**		**0.2021**	**0.2021**		**0.2021**	**0.2021**	**0.0000**	**1,943.5341**	**1,943.5341**	**0.0623**	**0.0352**	**1,955.5654**

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

DSRT SURF: GP Mixed Use Alternative

Salton Sea Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	77.10	1000sqft	1.77	77,100.00	0
Apartments Low Rise	177.00	Dwelling Unit	11.06	177,000.00	572
Other Asphalt Surfaces	4.86	Acre	4.86	211,701.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	20
Climate Zone	15			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

DSRT SURF: GP Mixed Use Alternative - Salton Sea Air Basin, Winter

Project Characteristics -

Land Use -

Construction Phase - Assumes a 2-year buildout.

Grading - Assumes 1000 CY export for conservative analysis purposes.

Trips and VMT - The material haul site is approx. 2.5 miles north of project site.

On-road Fugitive Dust - All roadways in the area are paved.

Architectural Coating - Low VOC coatings/paint per SCAQMD Rule 1113.

Vehicle Trips - See project specific Traffic Analysis for trip rate analysis. Assumes total daily trips = 3,610.

Road Dust - All roads are paved.

Woodstoves - No wood burning appliances are proposed.

Energy Use - Project will adhere to Title 24 standards.

Construction Off-road Equipment Mitigation - No mitigation. Standard dust control requirements applied per SCAQMD Rule 403.1.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	125.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	125.00
tblArchitecturalCoating	EF_Parking	150.00	125.00
tblConstructionPhase	NumDays	20.00	108.00
tblConstructionPhase	NumDays	300.00	482.00
tblConstructionPhase	NumDays	20.00	50.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	2.44	0.00
tblEnergyUse	T24E	877.14	4,049.90
tblEnergyUse	T24E	4.58	7.02
tblFireplaces	FireplaceWoodMass	2,080.00	0.00
tblGrading	AcresOfGrading	75.00	17.69
tblGrading	MaterialExported	0.00	1,000.00

tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblRoadDust	RoadPercentPave	50	100
tblTripsAndVMT	HaulingTripLength	20.00	2.50
tblVehicleTrips	ST_TR	7.16	4.46
tblVehicleTrips	ST_TR	49.97	36.57
tblVehicleTrips	SU_TR	6.07	4.46
tblVehicleTrips	SU_TR	25.24	36.57
tblVehicleTrips	WD_TR	6.59	4.46
tblVehicleTrips	WD_TR	42.70	36.57

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					
2019	5.6943	55.1690	43.1833	0.0838	18.2169	2.3913	20.6082	9.9706	2.2000	12.1707	0.0000	8,314.6515	8,314.6515	1.9677	0.0000	8,354.4701
2020	3.5371	26.4874	26.6633	0.0592	2.3478	1.1604	3.5082	0.6303	1.0913	1.7217	0.0000	5,836.8431	5,836.8431	0.8455	0.0000	5,857.9793
2021	33.1183	25.7956	28.9011	0.0648	2.7494	1.0786	3.8280	0.7368	1.0196	1.7564	0.0000	6,386.7641	6,386.7641	0.8556	0.0000	6,408.1541
Maximum	**33.1183**	**55.1690**	**43.1833**	**0.0838**	**18.2169**	**2.3913**	**20.6082**	**9.9706**	**2.2000**	**12.1707**	**0.0000**	**8,314.6515**	**8,314.6515**	**1.9677**	**0.0000**	**8,354.4701**

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					
2019	5.6943	55.1690	43.1833	0.0838	7.1964	2.3913	9.5878	3.9129	2.2000	6.1129	0.0000	8,314.6515	8,314.6515	1.9677	0.0000	8,354.4701
2020	3.5371	26.4874	26.6633	0.0592	2.3478	1.1604	3.5082	0.6303	1.0913	1.7217	0.0000	5,836.8431	5,836.8431	0.8455	0.0000	5,857.9792
2021	33.1183	25.7956	28.9011	0.0648	2.7494	1.0786	3.8280	0.7368	1.0196	1.7564	0.0000	6,386.7641	6,386.7641	0.8556	0.0000	6,408.1541
Maximum	**33.1183**	**55.1690**	**43.1833**	**0.0838**	**7.1964**	**2.3913**	**9.5878**	**3.9129**	**2.2000**	**6.1129**	**0.0000**	**8,314.6515**	**8,314.6515**	**1.9677**	**0.0000**	**8,354.4701**

DSRT SURF: GP Mixed Use Alternative - Salton Sea Air Basin, Winter

	ROG	NOx	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**	**47.27**	**0.00**	**39.44**	**53.43**	**0.00**	**38.71**	**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	7.0574	1.6708	15.2819	0.0104		0.2021	0.2021		0.2021	0.2021	0.0000	1,943.5341	1,943.5341	0.0623	0.0352	1,955.5654
Energy	0.0865	0.7420	0.3348	4.7200e-003		0.0598	0.0598		0.0598	0.0598		943.7062	943.7062	0.0181	0.0173	949.3142
Mobile	6.4607	63.4111	61.2257	0.2141	11.8352	0.1573	11.9925	3.1763	0.1482	3.3245		21,993.2849	21,993.2849	2.1569		22,047.2078
Total	**13.6047**	**65.8239**	**76.8424**	**0.2292**	**11.8352**	**0.4192**	**12.2543**	**3.1763**	**0.4101**	**3.5864**	**0.0000**	**24,880.5252**	**24,880.5252**	**2.2373**	**0.0525**	**24,952.0873**

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	7.0574	1.6708	15.2819	0.0104		0.2021	0.2021		0.2021	0.2021	0.0000	1,943.5341	1,943.5341	0.0623	0.0352	1,955.5654
Energy	0.0865	0.7420	0.3348	4.7200e-003		0.0598	0.0598		0.0598	0.0598		943.7062	943.7062	0.0181	0.0173	949.3142
Mobile	6.4607	63.4111	61.2257	0.2141	11.8352	0.1573	11.9925	3.1763	0.1482	3.3245		21,993.2849	21,993.2849	2.1569		22,047.2078
Total	**13.6047**	**65.8239**	**76.8424**	**0.2292**	**11.8352**	**0.4192**	**12.2543**	**3.1763**	**0.4101**	**3.5864**	**0.0000**	**24,880.5252**	**24,880.5252**	**2.2373**	**0.0525**	**24,952.0873**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	6/14/2019	5	10	
2	Grading	Grading	6/15/2019	7/26/2019	5	30	
3	Building Construction	Building Construction	7/27/2019	6/1/2021	5	482	
4	Paving	Paving	7/27/2019	10/4/2019	5	50	
5	Architectural Coating	Architectural Coating	1/1/2021	6/1/2021	5	108	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 17.69

Acres of Paving: 4.86

Residential Indoor: 358,425; Residential Outdoor: 119,475; Non-Residential Indoor: 115,650; Non-Residential Outdoor: 38,550; Striped Parking Area: 12,702 (Architectural Coating – sqft)

OffRoad Equipment

DSRT SURF: GP Mixed Use Alternative - Salton Sea Air Basin, Winter

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	125.00	11.00	5.40	2.50	LD_Mix	HDT_Mix	HHDT
Building Construction	9	241.00	66.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	48.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**		**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0968	0.0765	0.6624	1.3500e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		134.4593	134.4593	6.1400e-003		134.6128
Total	**0.0968**	**0.0765**	**0.6624**	**1.3500e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**134.4593**	**134.4593**	**6.1400e-003**		**134.6128**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**7.0458**	**2.3904**	**9.4362**	**3.8730**	**2.1991**	**6.0721**	**0.0000**	**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0968	0.0765	0.6624	1.3500e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		134.4593	134.4593	6.1400e-003		134.6128
Total	**0.0968**	**0.0765**	**0.6624**	**1.3500e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**134.4593**	**134.4593**	**6.1400e-003**		**134.6128**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6541	0.0000	6.6541	3.3788	0.0000	3.3788			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**6.6541**	**2.3827**	**9.0367**	**3.3788**	**2.1920**	**5.5708**		**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0140	0.5638	0.0827	9.7000e-004	9.2100e-003	7.8000e-004	9.9900e-003	2.5300e-003	7.4000e-004	3.2800e-003		102.1196	102.1196	0.0183		102.5766
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1076	0.0851	0.7361	1.5000e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		149.3992	149.3992	6.8200e-003		149.5697
Total	**0.1215**	**0.6488**	**0.8187**	**2.4700e-003**	**0.1765**	**1.8600e-003**	**0.1784**	**0.0469**	**1.7400e-003**	**0.0487**		**251.5188**	**251.5188**	**0.0251**		**252.1464**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5951	0.0000	2.5951	1.3177	0.0000	1.3177			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**2.5951**	**2.3827**	**4.9777**	**1.3177**	**2.1920**	**3.5098**	**0.0000**	**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0140	0.5638	0.0827	9.7000e-004	9.2100e-003	7.8000e-004	9.9900e-003	2.5300e-003	7.4000e-004	3.2800e-003		102.1196	102.1196	0.0183		102.5766
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1076	0.0851	0.7361	1.5000e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		149.3992	149.3992	6.8200e-003		149.5697
Total	**0.1215**	**0.6488**	**0.8187**	**2.4700e-003**	**0.1765**	**1.8600e-003**	**0.1784**	**0.0469**	**1.7400e-003**	**0.0487**		**251.5188**	**251.5188**	**0.0251**		**252.1464**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2472	6.9554	1.9333	0.0149	0.3315	0.0433	0.3747	0.0955	0.0414	0.1369		1,553.7586	1,553.7586	0.1600		1,557.7591
Worker	1.2961	1.0248	8.8694	0.0181	2.0164	0.0131	2.0294	0.5348	0.0120	0.5469		1,800.2608	1,800.2608	0.0822		1,802.3154
Total	**1.5433**	**7.9802**	**10.8027**	**0.0330**	**2.3479**	**0.0563**	**2.4042**	**0.6303**	**0.0534**	**0.6837**		**3,354.0194**	**3,354.0194**	**0.2422**		**3,360.0745**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2472	6.9554	1.9333	0.0149	0.3315	0.0433	0.3747	0.0955	0.0414	0.1369		1,553.7586	1,553.7586	0.1600		1,557.7591
Worker	1.2961	1.0248	8.8694	0.0181	2.0164	0.0131	2.0294	0.5348	0.0120	0.5469		1,800.2608	1,800.2608	0.0822		1,802.3154
Total	**1.5433**	**7.9802**	**10.8027**	**0.0330**	**2.3479**	**0.0563**	**2.4042**	**0.6303**	**0.0534**	**0.6837**		**3,354.0194**	**3,354.0194**	**0.2422**		**3,360.0745**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2165	6.3763	1.7413	0.0147	0.3315	0.0306	0.3620	0.0955	0.0293	0.1248		1,540.7812	1,540.7812	0.1485		1,544.4924
Worker	1.2008	0.9250	8.0735	0.0175	2.0164	0.0127	2.0291	0.5348	0.0117	0.5466		1,742.9989	1,742.9989	0.0741		1,744.8524
Total	**1.4173**	**7.3013**	**9.8148**	**0.0323**	**2.3478**	**0.0433**	**2.3912**	**0.6303**	**0.0410**	**0.6713**		**3,283.7801**	**3,283.7801**	**0.2226**		**3,289.3448**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2165	6.3763	1.7413	0.0147	0.3315	0.0306	0.3620	0.0955	0.0293	0.1248		1,540.7812	1,540.7812	0.1485		1,544.4924
Worker	1.2008	0.9250	8.0735	0.0175	2.0164	0.0127	2.0291	0.5348	0.0117	0.5466		1,742.9989	1,742.9989	0.0741		1,744.8524
Total	**1.4173**	**7.3013**	**9.8148**	**0.0323**	**2.3478**	**0.0433**	**2.3912**	**0.6303**	**0.0410**	**0.6713**		**3,283.7801**	**3,283.7801**	**0.2226**		**3,289.3448**

3.4 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 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	0.1915	5.8304	1.5733	0.0146	0.3315	0.0109	0.3424	0.0955	0.0105	0.1060		1,532.1056	1,532.1056	0.1388		1,535.5763
Worker	1.1204	0.8392	7.4510	0.0169	2.0164	0.0124	2.0288	0.5348	0.0114	0.5463		1,684.3703	1,684.3703	0.0679		1,686.0682
Total	**1.3119**	**6.6695**	**9.0243**	**0.0316**	**2.3478**	**0.0234**	**2.3712**	**0.6303**	**0.0219**	**0.6522**		**3,216.4759**	**3,216.4759**	**0.2068**		**3,221.6445**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 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	0.1915	5.8304	1.5733	0.0146	0.3315	0.0109	0.3424	0.0955	0.0105	0.1060		1,532.1056	1,532.1056	0.1388		1,535.5763
Worker	1.1204	0.8392	7.4510	0.0169	2.0164	0.0124	2.0288	0.5348	0.0114	0.5463		1,684.3703	1,684.3703	0.0679		1,686.0682
Total	**1.3119**	**6.6695**	**9.0243**	**0.0316**	**2.3478**	**0.0234**	**2.3712**	**0.6303**	**0.0219**	**0.6522**		**3,216.4759**	**3,216.4759**	**0.2068**		**3,221.6445**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.2547					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7091**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0807	0.0638	0.5520	1.1300e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		112.0494	112.0494	5.1200e-003		112.1773
Total	**0.0807**	**0.0638**	**0.5520**	**1.1300e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**112.0494**	**112.0494**	**5.1200e-003**		**112.1773**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.2547					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7091**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0807	0.0638	0.5520	1.1300e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		112.0494	112.0494	5.1200e-003		112.1773
Total	**0.0807**	**0.0638**	**0.5520**	**1.1300e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**112.0494**	**112.0494**	**5.1200e-003**		**112.1773**

3.6 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	29.4635					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	**29.6824**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.2232	0.1671	1.4840	3.3700e-003	0.4016	2.4700e-003	0.4041	0.1065	2.2800e-003	0.1088		335.4762	335.4762	0.0135		335.8144
Total	**0.2232**	**0.1671**	**1.4840**	**3.3700e-003**	**0.4016**	**2.4700e-003**	**0.4041**	**0.1065**	**2.2800e-003**	**0.1088**		**335.4762**	**335.4762**	**0.0135**		**335.8144**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	29.4635					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	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**29.6824**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.2232	0.1671	1.4840	3.3700e-003	0.4016	2.4700e-003	0.4041	0.1065	2.2800e-003	0.1088		335.4762	335.4762	0.0135		335.8144
Total	**0.2232**	**0.1671**	**1.4840**	**3.3700e-003**	**0.4016**	**2.4700e-003**	**0.4041**	**0.1065**	**2.2800e-003**	**0.1088**		**335.4762**	**335.4762**	**0.0135**		**335.8144**

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	6.4607	63.4111	61.2257	0.2141	11.8352	0.1573	11.9925	3.1763	0.1482	3.3245		21,993.2849	21,993.2849	2.1569		22,047.2078
Unmitigated	6.4607	63.4111	61.2257	0.2141	11.8352	0.1573	11.9925	3.1763	0.1482	3.3245		21,993.2849	21,993.2849	2.1569		22,047.2078

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	789.42	789.42	789.42	1,765,870	1,765,870
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	2,819.55	2,819.55	2819.55	3,734,263	3,734,263
Total	3,608.97	3,608.97	3,608.97	5,500,133	5,500,133

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
Apartments Low Rise	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Regional Shopping Center	12.50	4.20	5.40	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Other Asphalt Surfaces	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Regional Shopping Center	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871

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	0.0865	0.7420	0.3348	4.7200e-003		0.0598	0.0598		0.0598	0.0598		943.7062	943.7062	0.0181	0.0173	949.3142
NaturalGas Unmitigated	0.0865	0.7420	0.3348	4.7200e-003		0.0598	0.0598		0.0598	0.0598		943.7062	943.7062	0.0181	0.0173	949.3142

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	7552.57	0.0815	0.6960	0.2962	4.4400e-003		0.0563	0.0563		0.0563	0.0563		888.5372	888.5372	0.0170	0.0163	893.8173
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	468.937	5.0600e-003	0.0460	0.0386	2.8000e-004		3.4900e-003	3.4900e-003		3.4900e-003	3.4900e-003		55.1691	55.1691	1.0600e-003	1.0100e-003	55.4969
Total		**0.0865**	**0.7420**	**0.3348**	**4.7200e-003**		**0.0598**	**0.0598**		**0.0598**	**0.0598**		**943.7062**	**943.7062**	**0.0181**	**0.0173**	**949.3142**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	7.55257	0.0815	0.6960	0.2962	4.4400e-003		0.0563	0.0563		0.0563	0.0563		888.5372	888.5372	0.0170	0.0163	893.8173
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.468937	5.0600e-003	0.0460	0.0386	2.8000e-004		3.4900e-003	3.4900e-003		3.4900e-003	3.4900e-003		55.1691	55.1691	1.0600e-003	1.0100e-003	55.4969
Total		**0.0865**	**0.7420**	**0.3348**	**4.7200e-003**		**0.0598**	**0.0598**		**0.0598**	**0.0598**		**943.7062**	**943.7062**	**0.0181**	**0.0173**	**949.3142**

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	7.0574	1.6708	15.2819	0.0104		0.2021	0.2021		0.2021	0.2021	0.0000	1,943.5341	1,943.5341	0.0623	0.0352	1,955.5654
Unmitigated	7.0574	1.6708	15.2819	0.0104		0.2021	0.2021		0.2021	0.2021	0.0000	1,943.5341	1,943.5341	0.0623	0.0352	1,955.5654

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	0.9248					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.5127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1758	1.5018	0.6391	9.5900e-003		0.1214	0.1214		0.1214	0.1214	0.0000	1,917.2224	1,917.2224	0.0368	0.0352	1,928.6155
Landscaping	0.4442	0.1690	14.6429	7.7000e-004		0.0807	0.0807		0.0807	0.0807		26.3117	26.3117	0.0255		26.9499
Total	**7.0574**	**1.6708**	**15.2819**	**0.0104**		**0.2021**	**0.2021**		**0.2021**	**0.2021**	**0.0000**	**1,943.5341**	**1,943.5341**	**0.0623**	**0.0352**	**1,955.5654**

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	0.9248					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.5127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1758	1.5018	0.6391	9.5900e-003		0.1214	0.1214		0.1214	0.1214	0.0000	1,917.2224	1,917.2224	0.0368	0.0352	1,928.6155
Landscaping	0.4442	0.1690	14.6429	7.7000e-004		0.0807	0.0807		0.0807	0.0807		26.3117	26.3117	0.0255		26.9499
Total	**7.0574**	**1.6708**	**15.2819**	**0.0104**		**0.2021**	**0.2021**		**0.2021**	**0.2021**	**0.0000**	**1,943.5341**	**1,943.5341**	**0.0623**	**0.0352**	**1,955.5654**

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

DSRT SURF Residential PR-5 Alternative

Salton Sea Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	89.00	Dwelling Unit	15.69	160,200.00	287
Other Asphalt Surfaces	2.00	Acre	2.00	87,120.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	20
Climate Zone	15			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

DSRT SURF Residential PR-5 Alternative - Salton Sea Air Basin, Annual

Project Characteristics -

Land Use - Assumes maximum densities allowed in existing PR-5 zone.

Construction Phase - Assumes a 2-year buildout

Grading - Assumes 1000 CY export for conservative analysis.

Trips and VMT - Material haul location is approx. 2.5 miles north of project site.

On-road Fugitive Dust - All roads are paved.

Vehicle Trips - See project specific Traffic Report. Assumes 840 daily trips.

Road Dust - All roads are paved.

Woodstoves - Wood burning appliances are not proposed.

Energy Use - Buildout will adhere to Title 24 standards.

Construction Off-road Equipment Mitigation - No mitigation required. Assumes standard dust control measures per SCAQMD Rule 403.1

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	108.00
tblConstructionPhase	NumDays	300.00	482.00
tblConstructionPhase	NumDays	20.00	50.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	T24E	951.67	7,107.64
tblFireplaces	FireplaceWoodMass	2,080.00	0.00
tblGrading	AcresOfGrading	75.00	17.69
tblGrading	MaterialExported	0.00	1,000.00
tblLandUse	LotAcreage	28.90	15.69
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00

tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblRoadDust	RoadPercentPave	50	100
tblTripsAndVMT	HaulingTripLength	20.00	2.50
tblTripsAndVMT	VendorTripNumber	24.00	66.00
tblTripsAndVMT	WorkerTripNumber	69.00	241.00
tblTripsAndVMT	WorkerTripNumber	14.00	48.00
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	9.52	9.44

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.3557	3.0690	2.6227	5.2200e-003	0.3266	0.1437	0.4703	0.1370	0.1338	0.2707	0.0000	470.3101	470.3101	0.0928	0.0000	472.6289
2020	0.4651	3.4773	3.5938	7.9900e-003	0.3040	0.1520	0.4560	0.0817	0.1429	0.2246	0.0000	715.0671	715.0671	0.1001	0.0000	717.5700
2021	1.2187	1.3960	1.6094	3.6100e-003	0.1467	0.0582	0.2050	0.0394	0.0550	0.0944	0.0000	322.7209	322.7209	0.0418	0.0000	323.7665
Maximum	**1.2187**	**3.4773**	**3.5938**	**7.9900e-003**	**0.3266**	**0.1520**	**0.4703**	**0.1370**	**0.1429**	**0.2707**	**0.0000**	**715.0671**	**715.0671**	**0.1001**	**0.0000**	**717.5700**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.3557	3.0690	2.6227	5.2200e-003	0.2106	0.1437	0.3543	0.0758	0.1338	0.2095	0.0000	470.3098	470.3098	0.0928	0.0000	472.6286
2020	0.4651	3.4773	3.5938	7.9900e-003	0.3040	0.1520	0.4560	0.0817	0.1429	0.2246	0.0000	715.0667	715.0667	0.1001	0.0000	717.5697
2021	1.2187	1.3960	1.6094	3.6100e-003	0.1467	0.0582	0.2050	0.0394	0.0550	0.0944	0.0000	322.7207	322.7207	0.0418	0.0000	323.7663
Maximum	**1.2187**	**3.4773**	**3.5938**	**7.9900e-003**	**0.3040**	**0.1520**	**0.4560**	**0.0817**	**0.1429**	**0.2246**	**0.0000**	**715.0667**	**715.0667**	**0.1001**	**0.0000**	**717.5697**

DSRT SURF Residential PR-5 Alternative - Salton Sea Air Basin, Annual

	ROG	NOx	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**	**14.92**	**0.00**	**10.25**	**23.72**	**0.00**	**10.38**	**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	**6-3-2019**	**9-2-2019**	1.7966	1.7966
2	**9-3-2019**	**12-2-2019**	1.2676	1.2676
3	**12-3-2019**	**3-2-2020**	1.0062	1.0062
4	**3-3-2020**	**6-2-2020**	0.9920	0.9920
5	**6-3-2020**	**9-2-2020**	0.9945	0.9945
6	**9-3-2020**	**12-2-2020**	0.9782	0.9782
7	**12-3-2020**	**3-2-2021**	1.3643	1.3643
8	**3-3-2021**	**6-2-2021**	1.5778	1.5778
		Highest	1.7966	1.7966

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	0.7536	9.2700e-003	0.6630	5.0000e-005		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003	0.0000	2.9598	2.9598	1.0800e-003	3.0000e-005	2.9971
Energy	0.0147	0.1255	0.0534	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	392.4886	392.4886	0.0130	4.7800e-003	394.2364
Mobile	0.3348	3.0235	3.3815	0.0126	0.7275	8.8800e-003	0.7364	0.1954	8.3700e-003	0.2038	0.0000	1,173.3741	1,173.3741	0.0888	0.0000	1,175.5930
Waste						0.0000	0.0000		0.0000	0.0000	23.8860	0.0000	23.8860	1.4116	0.0000	59.1764
Water						0.0000	0.0000		0.0000	0.0000	1.8397	36.9983	38.8380	0.1905	4.7800e-003	45.0236
Total	**1.1031**	**3.1582**	**4.0979**	**0.0135**	**0.7275**	**0.0228**	**0.7503**	**0.1954**	**0.0223**	**0.2177**	**25.7256**	**1,605.8208**	**1,631.5464**	**1.7049**	**9.5900e-003**	**1,677.0265**

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	0.7536	9.2700e-003	0.6630	5.0000e-005		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003	0.0000	2.9598	2.9598	1.0800e-003	3.0000e-005	2.9971
Energy	0.0147	0.1255	0.0534	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	392.4886	392.4886	0.0130	4.7800e-003	394.2364
Mobile	0.3348	3.0235	3.3815	0.0126	0.7275	8.8800e-003	0.7364	0.1954	8.3700e-003	0.2038	0.0000	1,173.3741	1,173.3741	0.0888	0.0000	1,175.5930
Waste						0.0000	0.0000		0.0000	0.0000	23.8860	0.0000	23.8860	1.4116	0.0000	59.1764
Water						0.0000	0.0000		0.0000	0.0000	1.8397	36.9983	38.8380	0.1905	4.7800e-003	45.0236
Total	**1.1031**	**3.1582**	**4.0979**	**0.0135**	**0.7275**	**0.0228**	**0.7503**	**0.1954**	**0.0223**	**0.2177**	**25.7256**	**1,605.8208**	**1,631.5464**	**1.7049**	**9.5900e-003**	**1,677.0265**

	ROG	NOx	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

DSRT SURF Residential PR-5 Alternative - Salton Sea Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	6/14/2019	5	10	
2	Grading	Grading	6/15/2019	7/26/2019	5	30	
3	Building Construction	Building Construction	7/27/2019	6/1/2021	5	482	
4	Paving	Paving	7/27/2019	10/4/2019	5	50	
5	Architectural Coating	Architectural Coating	1/1/2021	6/1/2021	5	108	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 17.69

Acres of Paving: 2

Residential Indoor: 324,405; Residential Outdoor: 108,135; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 5,227 (Architectural Coating – sqft)

OffRoad Equipment

DSRT SURF Residential PR-5 Alternative - Salton Sea Air Basin, Annual

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	125.00	11.00	5.40	2.50	LD_Mix	HDT_Mix	HHDT
Building Construction	9	241.00	66.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	48.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.2279	0.1103	1.9000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195
Total	**0.0217**	**0.2279**	**0.1103**	**1.9000e-004**	**0.0903**	**0.0120**	**0.1023**	**0.0497**	**0.0110**	**0.0607**	**0.0000**	**17.0843**	**17.0843**	**5.4100e-003**	**0.0000**	**17.2195**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	4.9000e-004	3.7000e-004	3.6900e-003	1.0000e-005	7.4000e-004	0.0000	7.5000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.6564	0.6564	3.0000e-005	0.0000	0.6571
Total	**4.9000e-004**	**3.7000e-004**	**3.6900e-003**	**1.0000e-005**	**7.4000e-004**	**0.0000**	**7.5000e-004**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**0.6564**	**0.6564**	**3.0000e-005**	**0.0000**	**0.6571**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0352	0.0000	0.0352	0.0194	0.0000	0.0194	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.2279	0.1103	1.9000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195
Total	**0.0217**	**0.2279**	**0.1103**	**1.9000e-004**	**0.0352**	**0.0120**	**0.0472**	**0.0194**	**0.0110**	**0.0304**	**0.0000**	**17.0843**	**17.0843**	**5.4100e-003**	**0.0000**	**17.2195**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	4.9000e-004	3.7000e-004	3.6900e-003	1.0000e-005	7.4000e-004	0.0000	7.5000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.6564	0.6564	3.0000e-005	0.0000	0.6571
Total	**4.9000e-004**	**3.7000e-004**	**3.6900e-003**	**1.0000e-005**	**7.4000e-004**	**0.0000**	**7.5000e-004**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**0.6564**	**0.6564**	**3.0000e-005**	**0.0000**	**0.6571**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0998	0.0000	0.0998	0.0507	0.0000	0.0507	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0711	0.8178	0.5007	9.3000e-004		0.0357	0.0357		0.0329	0.0329	0.0000	83.5520	83.5520	0.0264	0.0000	84.2129
Total	**0.0711**	**0.8178**	**0.5007**	**9.3000e-004**	**0.0998**	**0.0357**	**0.1356**	**0.0507**	**0.0329**	**0.0836**	**0.0000**	**83.5520**	**83.5520**	**0.0264**	**0.0000**	**84.2129**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	8.6500e-003	1.0000e-003	2.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	1.4700	1.4700	2.3000e-004	0.0000	1.4758
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6400e-003	1.2500e-003	0.0123	2.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	2.1879	2.1879	1.0000e-004	0.0000	2.1904
Total	**1.8400e-003**	**9.9000e-003**	**0.0133**	**4.0000e-005**	**2.6200e-003**	**3.0000e-005**	**2.6500e-003**	**7.0000e-004**	**2.0000e-005**	**7.2000e-004**	**0.0000**	**3.6579**	**3.6579**	**3.3000e-004**	**0.0000**	**3.6662**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0389	0.0000	0.0389	0.0198	0.0000	0.0198	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0711	0.8178	0.5007	9.3000e-004		0.0357	0.0357		0.0329	0.0329	0.0000	83.5519	83.5519	0.0264	0.0000	84.2128
Total	**0.0711**	**0.8178**	**0.5007**	**9.3000e-004**	**0.0389**	**0.0357**	**0.0747**	**0.0198**	**0.0329**	**0.0527**	**0.0000**	**83.5519**	**83.5519**	**0.0264**	**0.0000**	**84.2128**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	8.6500e-003	1.0000e-003	2.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	1.4700	1.4700	2.3000e-004	0.0000	1.4758
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6400e-003	1.2500e-003	0.0123	2.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	2.1879	2.1879	1.0000e-004	0.0000	2.1904
Total	**1.8400e-003**	**9.9000e-003**	**0.0133**	**4.0000e-005**	**2.6200e-003**	**3.0000e-005**	**2.6500e-003**	**7.0000e-004**	**2.0000e-005**	**7.2000e-004**	**0.0000**	**3.6579**	**3.6579**	**3.3000e-004**	**0.0000**	**3.6662**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1322	1.1804	0.9612	1.5100e-003		0.0722	0.0722		0.0679	0.0679	0.0000	131.6584	131.6584	0.0321	0.0000	132.4602
Total	**0.1322**	**1.1804**	**0.9612**	**1.5100e-003**		**0.0722**	**0.0722**		**0.0679**	**0.0679**	**0.0000**	**131.6584**	**131.6584**	**0.0321**	**0.0000**	**132.4602**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0133	0.3937	0.0981	8.6000e-004	0.0184	2.4000e-003	0.0208	5.3000e-003	2.2900e-003	7.6000e-003	0.0000	81.3544	81.3544	7.6100e-003	0.0000	81.5447
Worker	0.0740	0.0562	0.5535	1.0900e-003	0.1116	7.3000e-004	0.1123	0.0296	6.7000e-004	0.0303	0.0000	98.4241	98.4241	4.5400e-003	0.0000	98.5376
Total	**0.0873**	**0.4499**	**0.6516**	**1.9500e-003**	**0.1300**	**3.1300e-003**	**0.1331**	**0.0349**	**2.9600e-003**	**0.0379**	**0.0000**	**179.7785**	**179.7785**	**0.0122**	**0.0000**	**180.0823**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1322	1.1804	0.9612	1.5100e-003		0.0722	0.0722		0.0679	0.0679	0.0000	131.6582	131.6582	0.0321	0.0000	132.4600
Total	**0.1322**	**1.1804**	**0.9612**	**1.5100e-003**		**0.0722**	**0.0722**		**0.0679**	**0.0679**	**0.0000**	**131.6582**	**131.6582**	**0.0321**	**0.0000**	**132.4600**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0133	0.3937	0.0981	8.6000e-004	0.0184	2.4000e-003	0.0208	5.3000e-003	2.2900e-003	7.6000e-003	0.0000	81.3544	81.3544	7.6100e-003	0.0000	81.5447
Worker	0.0740	0.0562	0.5535	1.0900e-003	0.1116	7.3000e-004	0.1123	0.0296	6.7000e-004	0.0303	0.0000	98.4241	98.4241	4.5400e-003	0.0000	98.5376
Total	**0.0873**	**0.4499**	**0.6516**	**1.9500e-003**	**0.1300**	**3.1300e-003**	**0.1331**	**0.0349**	**2.9600e-003**	**0.0379**	**0.0000**	**179.7785**	**179.7785**	**0.0122**	**0.0000**	**180.0823**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	**0.2777**	**2.5134**	**2.2072**	**3.5300e-003**		**0.1463**	**0.1463**		**0.1376**	**0.1376**	**0.0000**	**303.4091**	**303.4091**	**0.0740**	**0.0000**	**305.2596**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0272	0.8451	0.2060	1.9900e-003	0.0430	3.9600e-003	0.0470	0.0124	3.7900e-003	0.0162	0.0000	188.7366	188.7366	0.0165	0.0000	189.1492
Worker	0.1602	0.1188	1.1806	2.4700e-003	0.2610	1.6700e-003	0.2627	0.0693	1.5400e-003	0.0708	0.0000	222.9215	222.9215	9.5900e-003	0.0000	223.1613
Total	**0.1874**	**0.9639**	**1.3866**	**4.4600e-003**	**0.3040**	**5.6300e-003**	**0.3096**	**0.0817**	**5.3300e-003**	**0.0870**	**0.0000**	**411.6580**	**411.6580**	**0.0261**	**0.0000**	**412.3104**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	**0.2777**	**2.5134**	**2.2072**	**3.5300e-003**		**0.1463**	**0.1463**		**0.1376**	**0.1376**	**0.0000**	**303.4087**	**303.4087**	**0.0740**	**0.0000**	**305.2592**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0272	0.8451	0.2060	1.9900e-003	0.0430	3.9600e-003	0.0470	0.0124	3.7900e-003	0.0162	0.0000	188.7366	188.7366	0.0165	0.0000	189.1492
Worker	0.1602	0.1188	1.1806	2.4700e-003	0.2610	1.6700e-003	0.2627	0.0693	1.5400e-003	0.0708	0.0000	222.9215	222.9215	9.5900e-003	0.0000	223.1613
Total	**0.1874**	**0.9639**	**1.3866**	**4.4600e-003**	**0.3040**	**5.6300e-003**	**0.3096**	**0.0817**	**5.3300e-003**	**0.0870**	**0.0000**	**411.6580**	**411.6580**	**0.0261**	**0.0000**	**412.3104**

3.4 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	0.1027	0.9413	0.8951	1.4500e-003		0.0518	0.0518		0.0487	0.0487	0.0000	125.0841	125.0841	0.0302	0.0000	125.8386
Total	**0.1027**	**0.9413**	**0.8951**	**1.4500e-003**		**0.0518**	**0.0518**		**0.0487**	**0.0487**	**0.0000**	**125.0841**	**125.0841**	**0.0302**	**0.0000**	**125.8386**

3.4 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	9.9000e-003	0.3189	0.0763	8.1000e-004	0.0177	5.7000e-004	0.0183	5.1100e-003	5.5000e-004	5.6600e-003	0.0000	77.3637	77.3637	6.3600e-003	0.0000	77.5226
Worker	0.0615	0.0445	0.4502	9.8000e-004	0.1076	6.7000e-004	0.1083	0.0286	6.2000e-004	0.0292	0.0000	88.7993	88.7993	3.6200e-003	0.0000	88.8899
Total	**0.0714**	**0.3633**	**0.5265**	**1.7900e-003**	**0.1253**	**1.2400e-003**	**0.1266**	**0.0337**	**1.1700e-003**	**0.0348**	**0.0000**	**166.1630**	**166.1630**	**9.9800e-003**	**0.0000**	**166.4125**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1027	0.9413	0.8951	1.4500e-003		0.0518	0.0518		0.0487	0.0487	0.0000	125.0840	125.0840	0.0302	0.0000	125.8384
Total	**0.1027**	**0.9413**	**0.8951**	**1.4500e-003**		**0.0518**	**0.0518**		**0.0487**	**0.0487**	**0.0000**	**125.0840**	**125.0840**	**0.0302**	**0.0000**	**125.8384**

3.4 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	9.9000e-003	0.3189	0.0763	8.1000e-004	0.0177	5.7000e-004	0.0183	5.1100e-003	5.5000e-004	5.6600e-003	0.0000	77.3637	77.3637	6.3600e-003	0.0000	77.5226
Worker	0.0615	0.0445	0.4502	9.8000e-004	0.1076	6.7000e-004	0.1083	0.0286	6.2000e-004	0.0292	0.0000	88.7993	88.7993	3.6200e-003	0.0000	88.8899
Total	**0.0714**	**0.3633**	**0.5265**	**1.7900e-003**	**0.1253**	**1.2400e-003**	**0.1266**	**0.0337**	**1.1700e-003**	**0.0348**	**0.0000**	**166.1630**	**166.1630**	**9.9800e-003**	**0.0000**	**166.4125**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0364	0.3811	0.3666	5.7000e-004		0.0206	0.0206		0.0190	0.0190	0.0000	51.1880	51.1880	0.0162	0.0000	51.5928
Paving	2.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0390**	**0.3811**	**0.3666**	**5.7000e-004**		**0.0206**	**0.0206**		**0.0190**	**0.0190**	**0.0000**	**51.1880**	**51.1880**	**0.0162**	**0.0000**	**51.5928**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	2.0600e-003	1.5600e-003	0.0154	3.0000e-005	3.1000e-003	2.0000e-005	3.1200e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.7348	2.7348	1.3000e-004	0.0000	2.7380
Total	**2.0600e-003**	**1.5600e-003**	**0.0154**	**3.0000e-005**	**3.1000e-003**	**2.0000e-005**	**3.1200e-003**	**8.2000e-004**	**2.0000e-005**	**8.4000e-004**	**0.0000**	**2.7348**	**2.7348**	**1.3000e-004**	**0.0000**	**2.7380**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0364	0.3811	0.3666	5.7000e-004		0.0206	0.0206		0.0190	0.0190	0.0000	51.1879	51.1879	0.0162	0.0000	51.5928
Paving	2.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0390**	**0.3811**	**0.3666**	**5.7000e-004**		**0.0206**	**0.0206**		**0.0190**	**0.0190**	**0.0000**	**51.1879**	**51.1879**	**0.0162**	**0.0000**	**51.5928**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	2.0600e-003	1.5600e-003	0.0154	3.0000e-005	3.1000e-003	2.0000e-005	3.1200e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.7348	2.7348	1.3000e-004	0.0000	2.7380
Total	**2.0600e-003**	**1.5600e-003**	**0.0154**	**3.0000e-005**	**3.1000e-003**	**2.0000e-005**	**3.1200e-003**	**8.2000e-004**	**2.0000e-005**	**8.4000e-004**	**0.0000**	**2.7348**	**2.7348**	**1.3000e-004**	**0.0000**	**2.7380**

3.6 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	1.0206					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0118	0.0825	0.0982	1.6000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003	0.0000	13.7876	13.7876	9.5000e-004	0.0000	13.8112
Total	**1.0324**	**0.0825**	**0.0982**	**1.6000e-004**		**5.0800e-003**	**5.0800e-003**		**5.0800e-003**	**5.0800e-003**	**0.0000**	**13.7876**	**13.7876**	**9.5000e-004**	**0.0000**	**13.8112**

3.6 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	0.0123	8.8500e-003	0.0897	2.0000e-004	0.0214	1.3000e-004	0.0216	5.6900e-003	1.2000e-004	5.8100e-003	0.0000	17.6862	17.6862	7.2000e-004	0.0000	17.7042
Total	**0.0123**	**8.8500e-003**	**0.0897**	**2.0000e-004**	**0.0214**	**1.3000e-004**	**0.0216**	**5.6900e-003**	**1.2000e-004**	**5.8100e-003**	**0.0000**	**17.6862**	**17.6862**	**7.2000e-004**	**0.0000**	**17.7042**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0206					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0118	0.0825	0.0982	1.6000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003	0.0000	13.7876	13.7876	9.5000e-004	0.0000	13.8112
Total	**1.0324**	**0.0825**	**0.0982**	**1.6000e-004**		**5.0800e-003**	**5.0800e-003**		**5.0800e-003**	**5.0800e-003**	**0.0000**	**13.7876**	**13.7876**	**9.5000e-004**	**0.0000**	**13.8112**

3.6 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	0.0123	8.8500e-003	0.0897	2.0000e-004	0.0214	1.3000e-004	0.0216	5.6900e-003	1.2000e-004	5.8100e-003	0.0000	17.6862	17.6862	7.2000e-004	0.0000	17.7042
Total	**0.0123**	**8.8500e-003**	**0.0897**	**2.0000e-004**	**0.0214**	**1.3000e-004**	**0.0216**	**5.6900e-003**	**1.2000e-004**	**5.8100e-003**	**0.0000**	**17.6862**	**17.6862**	**7.2000e-004**	**0.0000**	**17.7042**

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	0.3348	3.0235	3.3815	0.0126	0.7275	8.8800e-003	0.7364	0.1954	8.3700e-003	0.2038	0.0000	1,173.3741	1,173.3741	0.0888	0.0000	1,175.5930
Unmitigated	0.3348	3.0235	3.3815	0.0126	0.7275	8.8800e-003	0.7364	0.1954	8.3700e-003	0.2038	0.0000	1,173.3741	1,173.3741	0.0888	0.0000	1,175.5930

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	840.16	840.16	840.16	1,879,372	1,879,372
Total	840.16	840.16	840.16	1,879,372	1,879,372

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Single Family Housing	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871

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	247.1759	247.1759	0.0102	2.1100e-003	248.0602
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	247.1759	247.1759	0.0102	2.1100e-003	248.0602
NaturalGas Mitigated	0.0147	0.1255	0.0534	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	145.3127	145.3127	2.7900e-003	2.6600e-003	146.1762
NaturalGas Unmitigated	0.0147	0.1255	0.0534	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	145.3127	145.3127	2.7900e-003	2.6600e-003	146.1762

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.72306e+006	0.0147	0.1255	0.0534	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	145.3127	145.3127	2.7900e-003	2.6600e-003	146.1762
Total		**0.0147**	**0.1255**	**0.0534**	**8.0000e-004**		**0.0101**	**0.0101**		**0.0101**	**0.0101**	**0.0000**	**145.3127**	**145.3127**	**2.7900e-003**	**2.6600e-003**	**146.1762**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.72306e+006	0.0147	0.1255	0.0534	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	145.3127	145.3127	2.7900e-003	2.6600e-003	146.1762
Total		**0.0147**	**0.1255**	**0.0534**	**8.0000e-004**		**0.0101**	**0.0101**		**0.0101**	**0.0101**	**0.0000**	**145.3127**	**145.3127**	**2.7900e-003**	**2.6600e-003**	**146.1762**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	775767	247.1759	0.0102	2.1100e-003	248.0602
Total		**247.1759**	**0.0102**	**2.1100e-003**	**248.0602**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	775767	247.1759	0.0102	2.1100e-003	248.0602
Total		**247.1759**	**0.0102**	**2.1100e-003**	**248.0602**

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	0.7536	9.2700e-003	0.6630	5.0000e-005		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003	0.0000	2.9598	2.9598	1.0800e-003	3.0000e-005	2.9971
Unmitigated	0.7536	9.2700e-003	0.6630	5.0000e-005		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003	0.0000	2.9598	2.9598	1.0800e-003	3.0000e-005	2.9971

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	0.1021					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6313					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.9000e-004	1.6200e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8803	1.8803	4.0000e-005	3.0000e-005	1.8915
Landscaping	0.0201	7.6400e-003	0.6623	3.0000e-005		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	1.0795	1.0795	1.0500e-003	0.0000	1.1057
Total	**0.7536**	**9.2600e-003**	**0.6630**	**4.0000e-005**		**3.7800e-003**	**3.7800e-003**		**3.7800e-003**	**3.7800e-003**	**0.0000**	**2.9598**	**2.9598**	**1.0900e-003**	**3.0000e-005**	**2.9971**

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	0.1021					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6313					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.9000e-004	1.6200e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8803	1.8803	4.0000e-005	3.0000e-005	1.8915
Landscaping	0.0201	7.6400e-003	0.6623	3.0000e-005		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	1.0795	1.0795	1.0500e-003	0.0000	1.1057
Total	**0.7536**	**9.2600e-003**	**0.6630**	**4.0000e-005**		**3.7800e-003**	**3.7800e-003**		**3.7800e-003**	**3.7800e-003**	**0.0000**	**2.9598**	**2.9598**	**1.0900e-003**	**3.0000e-005**	**2.9971**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	38.8380	0.1905	4.7800e-003	45.0236
Unmitigated	38.8380	0.1905	4.7800e-003	45.0236

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.79871 / 3.65571	38.8380	0.1905	4.7800e-003	45.0236
Total		**38.8380**	**0.1905**	**4.7800e-003**	**45.0236**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.79871 / 3.65571	38.8380	0.1905	4.7800e-003	45.0236
Total		**38.8380**	**0.1905**	**4.7800e-003**	**45.0236**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	23.8860	1.4116	0.0000	59.1764
Unmitigated	23.8860	1.4116	0.0000	59.1764

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	117.67	23.8860	1.4116	0.0000	59.1764
Total		**23.8860**	**1.4116**	**0.0000**	**59.1764**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	117.67	23.8860	1.4116	0.0000	59.1764
Total		**23.8860**	**1.4116**	**0.0000**	**59.1764**

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

DSRT SURF Residential PR-5 Alternative

Salton Sea Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	89.00	Dwelling Unit	15.69	160,200.00	287
Other Asphalt Surfaces	2.00	Acre	2.00	87,120.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	20
Climate Zone	15			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

DSRT SURF Residential PR-5 Alternative - Salton Sea Air Basin, Summer

Project Characteristics -

Land Use - Assumes maximum densities allowed in existing PR-5 zone.

Construction Phase - Assumes a 2-year buildout

Grading - Assumes 1000 CY export for conservative analysis.

Trips and VMT - Material haul location is approx. 2.5 miles north of project site.

On-road Fugitive Dust - All roads are paved.

Vehicle Trips - See project specific Traffic Report. Assumes 840 daily trips.

Road Dust - All roads are paved.

Woodstoves - Wood burning appliances are not proposed.

Energy Use - Buildout will adhere to Title 24 standards.

Construction Off-road Equipment Mitigation - No mitigation required. Assumes standard dust control measures per SCAQMD Rule 403.1

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	108.00
tblConstructionPhase	NumDays	300.00	482.00
tblConstructionPhase	NumDays	20.00	50.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	T24E	951.67	7,107.64
tblFireplaces	FireplaceWoodMass	2,080.00	0.00
tblGrading	AcresOfGrading	75.00	17.69
tblGrading	MaterialExported	0.00	1,000.00
tblLandUse	LotAcreage	28.90	15.69
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00

tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblRoadDust	RoadPercentPave	50	100
tblTripsAndVMT	HaulingTripLength	20.00	2.50
tblTripsAndVMT	VendorTripNumber	24.00	66.00
tblTripsAndVMT	WorkerTripNumber	69.00	241.00
tblTripsAndVMT	WorkerTripNumber	14.00	48.00
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	9.52	9.44

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					
2019	5.8331	55.1840	46.5910	0.0883	18.2169	2.3913	20.6082	9.9706	2.2000	12.1707	0.0000	8,760.2769	8,760.2769	1.9674	0.0000	8,800.2424
2020	3.7831	26.4857	29.5883	0.0633	2.3478	1.1598	3.5076	0.6303	1.0908	1.7211	0.0000	6,249.8932	6,249.8932	0.8488	0.0000	6,271.1134
2021	22.8250	25.8151	32.2235	0.0695	2.7494	1.0781	3.8275	0.7368	1.0191	1.7559	0.0000	6,852.0446	6,852.0446	0.8616	0.0000	6,873.5840
Maximum	**22.8250**	**55.1840**	**46.5910**	**0.0883**	**18.2169**	**2.3913**	**20.6082**	**9.9706**	**2.2000**	**12.1707**	**0.0000**	**8,760.2769**	**8,760.2769**	**1.9674**	**0.0000**	**8,800.2424**

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					
2019	5.8331	55.1840	46.5910	0.0883	7.1964	2.3913	9.5878	3.9129	2.2000	6.1129	0.0000	8,760.2769	8,760.2769	1.9674	0.0000	8,800.2424
2020	3.7831	26.4857	29.5883	0.0633	2.3478	1.1598	3.5076	0.6303	1.0908	1.7211	0.0000	6,249.8932	6,249.8932	0.8488	0.0000	6,271.1134
2021	22.8250	25.8151	32.2235	0.0695	2.7494	1.0781	3.8275	0.7368	1.0191	1.7559	0.0000	6,852.0446	6,852.0446	0.8616	0.0000	6,873.5840
Maximum	**22.8250**	**55.1840**	**46.5910**	**0.0883**	**7.1964**	**2.3913**	**9.5878**	**3.9129**	**2.2000**	**6.1129**	**0.0000**	**8,760.2769**	**8,760.2769**	**1.9674**	**0.0000**	**8,800.2424**

DSRT SURF Residential PR-5 Alternative - Salton Sea Air Basin, Summer

	ROG	NOx	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**	**47.27**	**0.00**	**39.44**	**53.43**	**0.00**	**38.71**	**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	4.3297	0.8401	7.6801	5.2100e-003		0.1016	0.1016		0.1016	0.1016	0.0000	977.2487	977.2487	0.0313	0.0177	983.2977
Energy	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135
Mobile	2.2719	16.5420	21.8121	0.0736	4.0440	0.0483	4.0924	1.0853	0.0455	1.1308		7,539.1241	7,539.1241	0.5384		7,552.5834
Total	**6.6820**	**18.0696**	**29.7848**	**0.0832**	**4.0440**	**0.2055**	**4.2496**	**1.0853**	**0.2027**	**1.2881**	**0.0000**	**9,394.0705**	**9,394.0705**	**0.5865**	**0.0338**	**9,418.7946**

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	4.3297	0.8401	7.6801	5.2100e-003		0.1016	0.1016		0.1016	0.1016	0.0000	977.2487	977.2487	0.0313	0.0177	983.2977
Energy	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135
Mobile	2.2719	16.5420	21.8121	0.0736	4.0440	0.0483	4.0924	1.0853	0.0455	1.1308		7,539.1241	7,539.1241	0.5384		7,552.5834
Total	**6.6820**	**18.0696**	**29.7848**	**0.0832**	**4.0440**	**0.2055**	**4.2496**	**1.0853**	**0.2027**	**1.2881**	**0.0000**	**9,394.0705**	**9,394.0705**	**0.5865**	**0.0338**	**9,418.7946**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	6/14/2019	5	10	
2	Grading	Grading	6/15/2019	7/26/2019	5	30	
3	Building Construction	Building Construction	7/27/2019	6/1/2021	5	482	
4	Paving	Paving	7/27/2019	10/4/2019	5	50	
5	Architectural Coating	Architectural Coating	1/1/2021	6/1/2021	5	108	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 17.69

Acres of Paving: 2

Residential Indoor: 324,405; Residential Outdoor: 108,135; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 5,227 (Architectural Coating – sqft)

OffRoad Equipment

DSRT SURF Residential PR-5 Alternative - Salton Sea Air Basin, Summer

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	125.00	11.00	5.40	2.50	LD_Mix	HDT_Mix	HHDT
Building Construction	9	241.00	66.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	48.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**		**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1179	0.0742	0.9228	1.6100e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		160.0181	160.0181	7.7700e-003		160.2123
Total	**0.1179**	**0.0742**	**0.9228**	**1.6100e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**160.0181**	**160.0181**	**7.7700e-003**		**160.2123**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**7.0458**	**2.3904**	**9.4362**	**3.8730**	**2.1991**	**6.0721**	**0.0000**	**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1179	0.0742	0.9228	1.6100e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		160.0181	160.0181	7.7700e-003		160.2123
Total	**0.1179**	**0.0742**	**0.9228**	**1.6100e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**160.0181**	**160.0181**	**7.7700e-003**		**160.2123**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6541	0.0000	6.6541	3.3788	0.0000	3.3788			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**6.6541**	**2.3827**	**9.0367**	**3.3788**	**2.1920**	**5.5708**		**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0125	0.5814	0.0554	1.0700e-003	9.2100e-003	7.0000e-004	9.9100e-003	2.5300e-003	6.7000e-004	3.2000e-003		112.3051	112.3051	0.0162		112.7090
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1310	0.0824	1.0254	1.7900e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		177.7979	177.7979	8.6300e-003		178.0136
Total	**0.1435**	**0.6638**	**1.0808**	**2.8600e-003**	**0.1765**	**1.7800e-003**	**0.1783**	**0.0469**	**1.6700e-003**	**0.0486**		**290.1030**	**290.1030**	**0.0248**		**290.7227**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5951	0.0000	2.5951	1.3177	0.0000	1.3177			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**2.5951**	**2.3827**	**4.9777**	**1.3177**	**2.1920**	**3.5098**	**0.0000**	**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0125	0.5814	0.0554	1.0700e-003	9.2100e-003	7.0000e-004	9.9100e-003	2.5300e-003	6.7000e-004	3.2000e-003		112.3051	112.3051	0.0162		112.7090
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1310	0.0824	1.0254	1.7900e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		177.7979	177.7979	8.6300e-003		178.0136
Total	**0.1435**	**0.6638**	**1.0808**	**2.8600e-003**	**0.1765**	**1.7800e-003**	**0.1783**	**0.0469**	**1.6700e-003**	**0.0486**		**290.1030**	**290.1030**	**0.0248**		**290.7227**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2358	6.9570	1.6378	0.0156	0.3315	0.0425	0.3739	0.0955	0.0406	0.1361		1,635.8815	1,635.8815	0.1427		1,639.4499
Worker	1.5786	0.9931	12.3556	0.0216	2.0164	0.0131	2.0294	0.5348	0.0120	0.5469		2,142.4644	2,142.4644	0.1040		2,145.0640
Total	**1.8144**	**7.9502**	**13.9934**	**0.0372**	**2.3479**	**0.0555**	**2.4034**	**0.6303**	**0.0527**	**0.6830**		**3,778.3459**	**3,778.3459**	**0.2467**		**3,784.5139**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2358	6.9570	1.6378	0.0156	0.3315	0.0425	0.3739	0.0955	0.0406	0.1361		1,635.8815	1,635.8815	0.1427		1,639.4499
Worker	1.5786	0.9931	12.3556	0.0216	2.0164	0.0131	2.0294	0.5348	0.0120	0.5469		2,142.4644	2,142.4644	0.1040		2,145.0640
Total	**1.8144**	**7.9502**	**13.9934**	**0.0372**	**2.3479**	**0.0555**	**2.4034**	**0.6303**	**0.0527**	**0.6830**		**3,778.3459**	**3,778.3459**	**0.2467**		**3,784.5139**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2057	6.4023	1.4650	0.0155	0.3315	0.0300	0.3615	0.0955	0.0287	0.1242		1,622.4346	1,622.4346	0.1322		1,625.7388
Worker	1.4576	0.8974	11.2748	0.0209	2.0164	0.0127	2.0291	0.5348	0.0117	0.5466		2,074.3955	2,074.3955	0.0938		2,076.7401
Total	**1.6633**	**7.2997**	**12.7398**	**0.0364**	**2.3478**	**0.0427**	**2.3906**	**0.6303**	**0.0404**	**0.6708**		**3,696.8302**	**3,696.8302**	**0.2260**		**3,702.4789**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2057	6.4023	1.4650	0.0155	0.3315	0.0300	0.3615	0.0955	0.0287	0.1242		1,622.4346	1,622.4346	0.1322		1,625.7388
Worker	1.4576	0.8974	11.2748	0.0209	2.0164	0.0127	2.0291	0.5348	0.0117	0.5466		2,074.3955	2,074.3955	0.0938		2,076.7401
Total	**1.6633**	**7.2997**	**12.7398**	**0.0364**	**2.3478**	**0.0427**	**2.3906**	**0.6303**	**0.0404**	**0.6708**		**3,696.8302**	**3,696.8302**	**0.2260**		**3,702.4789**

3.4 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 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	0.1812	5.8789	1.3123	0.0154	0.3315	0.0104	0.3419	0.0955	9.9800e-003	0.1055		1,613.3695	1,613.3695	0.1234		1,616.4539
Worker	1.3546	0.8150	10.4393	0.0202	2.0164	0.0124	2.0288	0.5348	0.0114	0.5463		2,004.6056	2,004.6056	0.0858		2,006.7502
Total	**1.5357**	**6.6939**	**11.7516**	**0.0356**	**2.3478**	**0.0229**	**2.3707**	**0.6303**	**0.0214**	**0.6517**		**3,617.9751**	**3,617.9751**	**0.2092**		**3,623.2041**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 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	0.1812	5.8789	1.3123	0.0154	0.3315	0.0104	0.3419	0.0955	9.9800e-003	0.1055		1,613.3695	1,613.3695	0.1234		1,616.4539
Worker	1.3546	0.8150	10.4393	0.0202	2.0164	0.0124	2.0288	0.5348	0.0114	0.5463		2,004.6056	2,004.6056	0.0858		2,006.7502
Total	**1.5357**	**6.6939**	**11.7516**	**0.0356**	**2.3478**	**0.0229**	**2.3707**	**0.6303**	**0.0214**	**0.6517**		**3,617.9751**	**3,617.9751**	**0.2092**		**3,623.2041**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.1048					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5592**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0983	0.0618	0.7690	1.3400e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		133.3484	133.3484	6.4700e-003		133.5102
Total	**0.0983**	**0.0618**	**0.7690**	**1.3400e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**133.3484**	**133.3484**	**6.4700e-003**		**133.5102**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.1048					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5592**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0983	0.0618	0.7690	1.3400e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		133.3484	133.3484	6.4700e-003		133.5102
Total	**0.0983**	**0.0618**	**0.7690**	**1.3400e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**133.3484**	**133.3484**	**6.4700e-003**		**133.5102**

3.6 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	18.8997					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	**19.1186**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.2698	0.1623	2.0792	4.0200e-003	0.4016	2.4700e-003	0.4041	0.1065	2.2800e-003	0.1088		399.2575	399.2575	0.0171		399.6847
Total	**0.2698**	**0.1623**	**2.0792**	**4.0200e-003**	**0.4016**	**2.4700e-003**	**0.4041**	**0.1065**	**2.2800e-003**	**0.1088**		**399.2575**	**399.2575**	**0.0171**		**399.6847**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	18.8997					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	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**19.1186**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.2698	0.1623	2.0792	4.0200e-003	0.4016	2.4700e-003	0.4041	0.1065	2.2800e-003	0.1088		399.2575	399.2575	0.0171		399.6847
Total	**0.2698**	**0.1623**	**2.0792**	**4.0200e-003**	**0.4016**	**2.4700e-003**	**0.4041**	**0.1065**	**2.2800e-003**	**0.1088**		**399.2575**	**399.2575**	**0.0171**		**399.6847**

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	2.2719	16.5420	21.8121	0.0736	4.0440	0.0483	4.0924	1.0853	0.0455	1.1308		7,539.1241	7,539.1241	0.5384		7,552.5834
Unmitigated	2.2719	16.5420	21.8121	0.0736	4.0440	0.0483	4.0924	1.0853	0.0455	1.1308		7,539.1241	7,539.1241	0.5384		7,552.5834

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	840.16	840.16	840.16	1,879,372	1,879,372
Total	840.16	840.16	840.16	1,879,372	1,879,372

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Single Family Housing	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871

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	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135
NaturalGas Unmitigated	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7460.43	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135
Total		**0.0805**	**0.6875**	**0.2926**	**4.3900e-003**		**0.0556**	**0.0556**		**0.0556**	**0.0556**		**877.6978**	**877.6978**	**0.0168**	**0.0161**	**882.9135**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7.46043	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135
Total		**0.0805**	**0.6875**	**0.2926**	**4.3900e-003**		**0.0556**	**0.0556**		**0.0556**	**0.0556**		**877.6978**	**877.6978**	**0.0168**	**0.0161**	**882.9135**

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	4.3297	0.8401	7.6801	5.2100e-003		0.1016	0.1016		0.1016	0.1016	0.0000	977.2487	977.2487	0.0313	0.0177	983.2977
Unmitigated	4.3297	0.8401	7.6801	5.2100e-003		0.1016	0.1016		0.1016	0.1016	0.0000	977.2487	977.2487	0.0313	0.0177	983.2977

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	0.5592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4591					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0884	0.7552	0.3213	4.8200e-003		0.0611	0.0611		0.0611	0.0611	0.0000	964.0271	964.0271	0.0185	0.0177	969.7558
Landscaping	0.2230	0.0849	7.3588	3.9000e-004		0.0406	0.0406		0.0406	0.0406		13.2216	13.2216	0.0128		13.5419
Total	**4.3297**	**0.8401**	**7.6801**	**5.2100e-003**		**0.1016**	**0.1016**		**0.1016**	**0.1016**	**0.0000**	**977.2487**	**977.2487**	**0.0313**	**0.0177**	**983.2977**

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	0.5592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4591					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0884	0.7552	0.3213	4.8200e-003		0.0611	0.0611		0.0611	0.0611	0.0000	964.0271	964.0271	0.0185	0.0177	969.7558
Landscaping	0.2230	0.0849	7.3588	3.9000e-004		0.0406	0.0406		0.0406	0.0406		13.2216	13.2216	0.0128		13.5419
Total	**4.3297**	**0.8401**	**7.6801**	**5.2100e-003**		**0.1016**	**0.1016**		**0.1016**	**0.1016**	**0.0000**	**977.2487**	**977.2487**	**0.0313**	**0.0177**	**983.2977**

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

DSRT SURF Residential PR-5 Alternative

Salton Sea Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	89.00	Dwelling Unit	15.69	160,200.00	287
Other Asphalt Surfaces	2.00	Acre	2.00	87,120.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	20
Climate Zone	15			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

DSRT SURF Residential PR-5 Alternative - Salton Sea Air Basin, Winter

Project Characteristics -

Land Use - Assumes maximum densities allowed in existing PR-5 zone.

Construction Phase - Assumes a 2-year buildout

Grading - Assumes 1000 CY export for conservative analysis.

Trips and VMT - Material haul location is approx. 2.5 miles north of project site.

On-road Fugitive Dust - All roads are paved.

Vehicle Trips - See project specific Traffic Report. Assumes 840 daily trips.

Road Dust - All roads are paved.

Woodstoves - Wood burning appliances are not proposed.

Energy Use - Buildout will adhere to Title 24 standards.

Construction Off-road Equipment Mitigation - No mitigation required. Assumes standard dust control measures per SCAQMD Rule 403.1

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	108.00
tblConstructionPhase	NumDays	300.00	482.00
tblConstructionPhase	NumDays	20.00	50.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	T24E	951.67	7,107.64
tblFireplaces	FireplaceWoodMass	2,080.00	0.00
tblGrading	AcresOfGrading	75.00	17.69
tblGrading	MaterialExported	0.00	1,000.00
tblLandUse	LotAcreage	28.90	15.69
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00

tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblRoadDust	RoadPercentPave	50	100
tblTripsAndVMT	HaulingTripLength	20.00	2.50
tblTripsAndVMT	VendorTripNumber	24.00	66.00
tblTripsAndVMT	WorkerTripNumber	69.00	241.00
tblTripsAndVMT	WorkerTripNumber	14.00	48.00
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	9.52	9.44

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					
2019	5.5444	55.1690	43.1833	0.0838	18.2169	2.3913	20.6082	9.9706	2.2000	12.1707	0.0000	8,314.6515	8,314.6515	1.9677	0.0000	8,354.4701
2020	3.5371	26.4874	26.6633	0.0592	2.3478	1.1604	3.5082	0.6303	1.0913	1.7217	0.0000	5,836.8431	5,836.8431	0.8455	0.0000	5,857.9793
2021	22.5545	25.7956	28.9011	0.0648	2.7494	1.0786	3.8280	0.7368	1.0196	1.7564	0.0000	6,386.7641	6,386.7641	0.8556	0.0000	6,408.1541
Maximum	**22.5545**	**55.1690**	**43.1833**	**0.0838**	**18.2169**	**2.3913**	**20.6082**	**9.9706**	**2.2000**	**12.1707**	**0.0000**	**8,314.6515**	**8,314.6515**	**1.9677**	**0.0000**	**8,354.4701**

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					
2019	5.5444	55.1690	43.1833	0.0838	7.1964	2.3913	9.5878	3.9129	2.2000	6.1129	0.0000	8,314.6515	8,314.6515	1.9677	0.0000	8,354.4701
2020	3.5371	26.4874	26.6633	0.0592	2.3478	1.1604	3.5082	0.6303	1.0913	1.7217	0.0000	5,836.8431	5,836.8431	0.8455	0.0000	5,857.9792
2021	22.5545	25.7956	28.9011	0.0648	2.7494	1.0786	3.8280	0.7368	1.0196	1.7564	0.0000	6,386.7641	6,386.7641	0.8556	0.0000	6,408.1541
Maximum	**22.5545**	**55.1690**	**43.1833**	**0.0838**	**7.1964**	**2.3913**	**9.5878**	**3.9129**	**2.2000**	**6.1129**	**0.0000**	**8,314.6515**	**8,314.6515**	**1.9677**	**0.0000**	**8,354.4701**

DSRT SURF Residential PR-5 Alternative - Salton Sea Air Basin, Winter

	ROG	NOx	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**	**47.27**	**0.00**	**39.44**	**53.43**	**0.00**	**38.71**	**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	4.3297	0.8401	7.6801	5.2100e-003		0.1016	0.1016		0.1016	0.1016	0.0000	977.2487	977.2487	0.0313	0.0177	983.2977
Energy	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135
Mobile	1.6649	16.4496	17.8639	0.0659	4.0440	0.0496	4.0936	1.0853	0.0467	1.1321		6,763.4972	6,763.4972	0.5559		6,777.3956
Total	**6.0751**	**17.9773**	**25.8366**	**0.0755**	**4.0440**	**0.2068**	**4.2508**	**1.0853**	**0.2039**	**1.2893**	**0.0000**	**8,618.4436**	**8,618.4436**	**0.6041**	**0.0338**	**8,643.6069**

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	4.3297	0.8401	7.6801	5.2100e-003		0.1016	0.1016		0.1016	0.1016	0.0000	977.2487	977.2487	0.0313	0.0177	983.2977
Energy	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135
Mobile	1.6649	16.4496	17.8639	0.0659	4.0440	0.0496	4.0936	1.0853	0.0467	1.1321		6,763.4972	6,763.4972	0.5559		6,777.3956
Total	**6.0751**	**17.9773**	**25.8366**	**0.0755**	**4.0440**	**0.2068**	**4.2508**	**1.0853**	**0.2039**	**1.2893**	**0.0000**	**8,618.4436**	**8,618.4436**	**0.6041**	**0.0338**	**8,643.6069**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	6/14/2019	5	10	
2	Grading	Grading	6/15/2019	7/26/2019	5	30	
3	Building Construction	Building Construction	7/27/2019	6/1/2021	5	482	
4	Paving	Paving	7/27/2019	10/4/2019	5	50	
5	Architectural Coating	Architectural Coating	1/1/2021	6/1/2021	5	108	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 17.69

Acres of Paving: 2

Residential Indoor: 324,405; Residential Outdoor: 108,135; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 5,227 (Architectural Coating – sqft)

OffRoad Equipment

DSRT SURF Residential PR-5 Alternative - Salton Sea Air Basin, Winter

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	125.00	11.00	5.40	2.50	LD_Mix	HDT_Mix	HHDT
Building Construction	9	241.00	66.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	48.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**		**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0968	0.0765	0.6624	1.3500e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		134.4593	134.4593	6.1400e-003		134.6128
Total	**0.0968**	**0.0765**	**0.6624**	**1.3500e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**134.4593**	**134.4593**	**6.1400e-003**		**134.6128**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**7.0458**	**2.3904**	**9.4362**	**3.8730**	**2.1991**	**6.0721**	**0.0000**	**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0968	0.0765	0.6624	1.3500e-003	0.1506	9.8000e-004	0.1516	0.0400	9.0000e-004	0.0408		134.4593	134.4593	6.1400e-003		134.6128
Total	**0.0968**	**0.0765**	**0.6624**	**1.3500e-003**	**0.1506**	**9.8000e-004**	**0.1516**	**0.0400**	**9.0000e-004**	**0.0408**		**134.4593**	**134.4593**	**6.1400e-003**		**134.6128**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6541	0.0000	6.6541	3.3788	0.0000	3.3788			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**6.6541**	**2.3827**	**9.0367**	**3.3788**	**2.1920**	**5.5708**		**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0140	0.5638	0.0827	9.7000e-004	9.2100e-003	7.8000e-004	9.9900e-003	2.5300e-003	7.4000e-004	3.2800e-003		102.1196	102.1196	0.0183		102.5766
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1076	0.0851	0.7361	1.5000e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		149.3992	149.3992	6.8200e-003		149.5697
Total	**0.1215**	**0.6488**	**0.8187**	**2.4700e-003**	**0.1765**	**1.8600e-003**	**0.1784**	**0.0469**	**1.7400e-003**	**0.0487**		**251.5188**	**251.5188**	**0.0251**		**252.1464**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5951	0.0000	2.5951	1.3177	0.0000	1.3177			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**2.5951**	**2.3827**	**4.9777**	**1.3177**	**2.1920**	**3.5098**	**0.0000**	**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0140	0.5638	0.0827	9.7000e-004	9.2100e-003	7.8000e-004	9.9900e-003	2.5300e-003	7.4000e-004	3.2800e-003		102.1196	102.1196	0.0183		102.5766
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1076	0.0851	0.7361	1.5000e-003	0.1673	1.0800e-003	0.1684	0.0444	1.0000e-003	0.0454		149.3992	149.3992	6.8200e-003		149.5697
Total	**0.1215**	**0.6488**	**0.8187**	**2.4700e-003**	**0.1765**	**1.8600e-003**	**0.1784**	**0.0469**	**1.7400e-003**	**0.0487**		**251.5188**	**251.5188**	**0.0251**		**252.1464**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2472	6.9554	1.9333	0.0149	0.3315	0.0433	0.3747	0.0955	0.0414	0.1369		1,553.7586	1,553.7586	0.1600		1,557.7591
Worker	1.2961	1.0248	8.8694	0.0181	2.0164	0.0131	2.0294	0.5348	0.0120	0.5469		1,800.2608	1,800.2608	0.0822		1,802.3154
Total	**1.5433**	**7.9802**	**10.8027**	**0.0330**	**2.3479**	**0.0563**	**2.4042**	**0.6303**	**0.0534**	**0.6837**		**3,354.0194**	**3,354.0194**	**0.2422**		**3,360.0745**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2472	6.9554	1.9333	0.0149	0.3315	0.0433	0.3747	0.0955	0.0414	0.1369		1,553.7586	1,553.7586	0.1600		1,557.7591
Worker	1.2961	1.0248	8.8694	0.0181	2.0164	0.0131	2.0294	0.5348	0.0120	0.5469		1,800.2608	1,800.2608	0.0822		1,802.3154
Total	**1.5433**	**7.9802**	**10.8027**	**0.0330**	**2.3479**	**0.0563**	**2.4042**	**0.6303**	**0.0534**	**0.6837**		**3,354.0194**	**3,354.0194**	**0.2422**		**3,360.0745**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2165	6.3763	1.7413	0.0147	0.3315	0.0306	0.3620	0.0955	0.0293	0.1248		1,540.7812	1,540.7812	0.1485		1,544.4924
Worker	1.2008	0.9250	8.0735	0.0175	2.0164	0.0127	2.0291	0.5348	0.0117	0.5466		1,742.9989	1,742.9989	0.0741		1,744.8524
Total	**1.4173**	**7.3013**	**9.8148**	**0.0323**	**2.3478**	**0.0433**	**2.3912**	**0.6303**	**0.0410**	**0.6713**		**3,283.7801**	**3,283.7801**	**0.2226**		**3,289.3448**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2165	6.3763	1.7413	0.0147	0.3315	0.0306	0.3620	0.0955	0.0293	0.1248		1,540.7812	1,540.7812	0.1485		1,544.4924
Worker	1.2008	0.9250	8.0735	0.0175	2.0164	0.0127	2.0291	0.5348	0.0117	0.5466		1,742.9989	1,742.9989	0.0741		1,744.8524
Total	**1.4173**	**7.3013**	**9.8148**	**0.0323**	**2.3478**	**0.0433**	**2.3912**	**0.6303**	**0.0410**	**0.6713**		**3,283.7801**	**3,283.7801**	**0.2226**		**3,289.3448**

3.4 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 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	0.1915	5.8304	1.5733	0.0146	0.3315	0.0109	0.3424	0.0955	0.0105	0.1060		1,532.1056	1,532.1056	0.1388		1,535.5763
Worker	1.1204	0.8392	7.4510	0.0169	2.0164	0.0124	2.0288	0.5348	0.0114	0.5463		1,684.3703	1,684.3703	0.0679		1,686.0682
Total	**1.3119**	**6.6695**	**9.0243**	**0.0316**	**2.3478**	**0.0234**	**2.3712**	**0.6303**	**0.0219**	**0.6522**		**3,216.4759**	**3,216.4759**	**0.2068**		**3,221.6445**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 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	0.1915	5.8304	1.5733	0.0146	0.3315	0.0109	0.3424	0.0955	0.0105	0.1060		1,532.1056	1,532.1056	0.1388		1,535.5763
Worker	1.1204	0.8392	7.4510	0.0169	2.0164	0.0124	2.0288	0.5348	0.0114	0.5463		1,684.3703	1,684.3703	0.0679		1,686.0682
Total	**1.3119**	**6.6695**	**9.0243**	**0.0316**	**2.3478**	**0.0234**	**2.3712**	**0.6303**	**0.0219**	**0.6522**		**3,216.4759**	**3,216.4759**	**0.2068**		**3,221.6445**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.1048					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5592**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0807	0.0638	0.5520	1.1300e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		112.0494	112.0494	5.1200e-003		112.1773
Total	**0.0807**	**0.0638**	**0.5520**	**1.1300e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**112.0494**	**112.0494**	**5.1200e-003**		**112.1773**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.1048					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5592**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0807	0.0638	0.5520	1.1300e-003	0.1255	8.1000e-004	0.1263	0.0333	7.5000e-004	0.0340		112.0494	112.0494	5.1200e-003		112.1773
Total	**0.0807**	**0.0638**	**0.5520**	**1.1300e-003**	**0.1255**	**8.1000e-004**	**0.1263**	**0.0333**	**7.5000e-004**	**0.0340**		**112.0494**	**112.0494**	**5.1200e-003**		**112.1773**

3.6 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	18.8997					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	**19.1186**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.2232	0.1671	1.4840	3.3700e-003	0.4016	2.4700e-003	0.4041	0.1065	2.2800e-003	0.1088		335.4762	335.4762	0.0135		335.8144
Total	**0.2232**	**0.1671**	**1.4840**	**3.3700e-003**	**0.4016**	**2.4700e-003**	**0.4041**	**0.1065**	**2.2800e-003**	**0.1088**		**335.4762**	**335.4762**	**0.0135**		**335.8144**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	18.8997					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	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**19.1186**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 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	0.2232	0.1671	1.4840	3.3700e-003	0.4016	2.4700e-003	0.4041	0.1065	2.2800e-003	0.1088		335.4762	335.4762	0.0135		335.8144
Total	**0.2232**	**0.1671**	**1.4840**	**3.3700e-003**	**0.4016**	**2.4700e-003**	**0.4041**	**0.1065**	**2.2800e-003**	**0.1088**		**335.4762**	**335.4762**	**0.0135**		**335.8144**

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	1.6649	16.4496	17.8639	0.0659	4.0440	0.0496	4.0936	1.0853	0.0467	1.1321		6,763.4972	6,763.4972	0.5559		6,777.3956
Unmitigated	1.6649	16.4496	17.8639	0.0659	4.0440	0.0496	4.0936	1.0853	0.0467	1.1321		6,763.4972	6,763.4972	0.5559		6,777.3956

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	840.16	840.16	840.16	1,879,372	1,879,372
Total	840.16	840.16	840.16	1,879,372	1,879,372

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871
Single Family Housing	0.488026	0.036684	0.182870	0.124813	0.016056	0.005387	0.022140	0.111418	0.002892	0.001913	0.006145	0.000785	0.000871

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	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135
NaturalGas Unmitigated	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7460.43	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135
Total		**0.0805**	**0.6875**	**0.2926**	**4.3900e-003**		**0.0556**	**0.0556**		**0.0556**	**0.0556**		**877.6978**	**877.6978**	**0.0168**	**0.0161**	**882.9135**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7.46043	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135
Total		**0.0805**	**0.6875**	**0.2926**	**4.3900e-003**		**0.0556**	**0.0556**		**0.0556**	**0.0556**		**877.6978**	**877.6978**	**0.0168**	**0.0161**	**882.9135**

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	4.3297	0.8401	7.6801	5.2100e-003		0.1016	0.1016		0.1016	0.1016	0.0000	977.2487	977.2487	0.0313	0.0177	983.2977
Unmitigated	4.3297	0.8401	7.6801	5.2100e-003		0.1016	0.1016		0.1016	0.1016	0.0000	977.2487	977.2487	0.0313	0.0177	983.2977

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	0.5592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4591					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0884	0.7552	0.3213	4.8200e-003		0.0611	0.0611		0.0611	0.0611	0.0000	964.0271	964.0271	0.0185	0.0177	969.7558
Landscaping	0.2230	0.0849	7.3588	3.9000e-004		0.0406	0.0406		0.0406	0.0406		13.2216	13.2216	0.0128		13.5419
Total	**4.3297**	**0.8401**	**7.6801**	**5.2100e-003**		**0.1016**	**0.1016**		**0.1016**	**0.1016**	**0.0000**	**977.2487**	**977.2487**	**0.0313**	**0.0177**	**983.2977**

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	0.5592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4591					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0884	0.7552	0.3213	4.8200e-003		0.0611	0.0611		0.0611	0.0611	0.0000	964.0271	964.0271	0.0185	0.0177	969.7558
Landscaping	0.2230	0.0849	7.3588	3.9000e-004		0.0406	0.0406		0.0406	0.0406		13.2216	13.2216	0.0128		13.5419
Total	**4.3297**	**0.8401**	**7.6801**	**5.2100e-003**		**0.1016**	**0.1016**		**0.1016**	**0.1016**	**0.0000**	**977.2487**	**977.2487**	**0.0313**	**0.0177**	**983.2977**

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