Air Quality/Greenhouse Gas Study for Sheep Creek Community Solar Project

July 21, 2020

Prepared for:

County of San Bernardino
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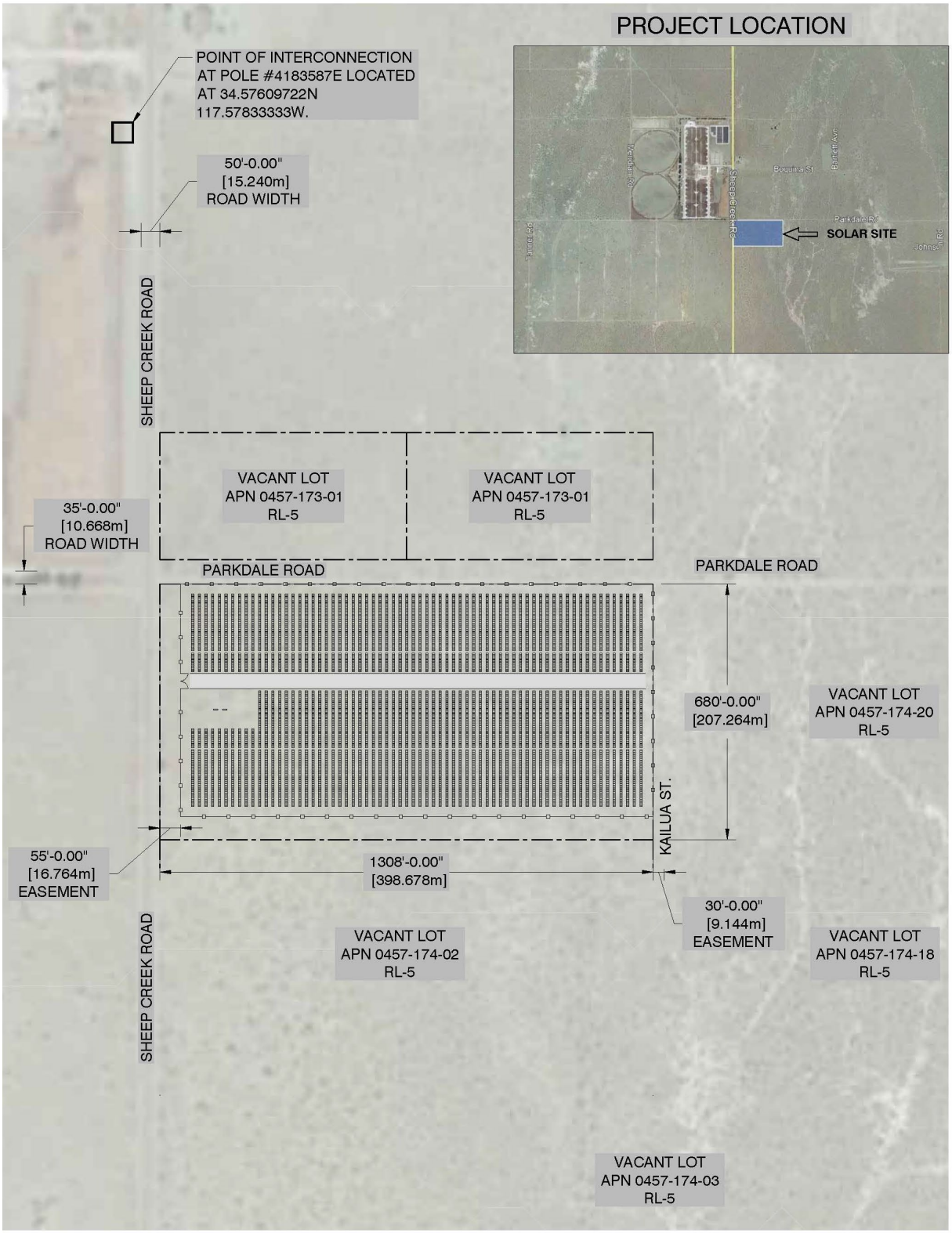
1.0 PROJECT DESCRIPTION

The applicant, JATON LLC, is requesting a Conditional Use Permit (CUP) to establish a 3-Megawatt (MW) community photovoltaic solar facility on approximately 19.25 acres on the southeast corner of Sheep Creek Road and Parkdale Road in the Community of El Mirage (proposed project). The proposed project would have a capacity of 3 MW and would utilize approximately 10,000 Poly or Mono Crystalline photovoltaic (PV) solar modules, which would be mounted on single axis trackers, and use four (4) 750 kilowatt (kW) central inverters. The number of modules and inverters is subject to change depending on the final design and availability. The applicant proposes to construct 1,300 feet (0.3 miles) of distribution lines northerly along Sheep Creek Road to connect to an existing distribution line nearby the proposed project site. The electricity generated by this small-scale solar PV generating facility would ultimately be purchased by residential, agricultural, and commercial off takers under Southern California Edison's (SCE) Green Tariff Shared Renewables program (GTSR Tariff). Sheep Creek Community Solar has been approved as a community solar project by SCE under SCE's GTSR Tariff program ("Community Solar Program"). SCE's Community Solar Program is the result of Senate Bill 43, which allows participating utility customers to meet up to 100 percent of their energy usage from local renewable energy resources. Under the SCE Community Solar Program, SCE customers are allowed to subscribe up to 100 percent of their energy need from a local renewable energy project and receive bill credits from SCE based on their energy subscription directly from the local renewable energy project. Sheep Creek Community Solar would produce clean sustainable electricity to approximately 2,600 local contracted customers. The proposed project has received over 1,300 signatures from local customers who have expressed interest in contracting with the community solar project. These customers would be the direct consumers of the 100 percent community solar initiative, and the proposed Sheep Creek Community Solar project. Local customers support local solar power because it provides clean energy for their long-term future and reduces emissions from electricity generated from fossil fuels, which contributes to a cleaner, healthier environment.

1.1 CONSTRUCTION AND OPERATIONS

Construction is estimated to start in 2020 and would take approximately three months to complete. Criteria pollutant and greenhouse gas (GHG) emissions are expected to result from the proposed project's construction. Criteria pollutants evaluated included volatile organic compounds (VOCs), nitrogen oxides (NOx), carbon monoxide (CO), sulfur oxides (SOx), particulate matter with a diameter up to 10 microns (PM10), and particulate matter with a diameter up to 2.5 microns (PM2.5). GHGs were evaluated as metric tons of carbon dioxide equivalents (MTCO2e). Emissions were based on construction data provided by the project applicant. The California Emissions Estimator Model (CalEEMod), Version 2016.3.2 was used to estimate emissions. CalEEMod estimated project emissions based on the type and size of Project. The proposed project was characterized as a General Light Industry land use with a size of 19.25 acres. The applicant estimated the project construction activities would occur over a three-month period, while the operational project life is estimated at 30 years. Project operations would be minimal and would include maintenance activities, such as cleaning the PV panels, which would be on an as-needed basis. Overall, operational emissions would result in negligible emissions and impacts would be less than significant

Figure 1: Project Site Plan



2.0 CEQA ENVIRONMENTAL CHECKLIST

2.1 AIR QUALITY

Issues	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
AIR QUALITY: Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
e) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

a) Conflict with or obstruct implementation of the applicable air quality plan?

Less Than Significant Impact. The project site falls under the jurisdiction of the Mojave Desert Air Quality Management District (MDAQMD) and is located in the Mojave Desert Air Basin (MDAB). The Air Quality Management Plan (AQMP) provides a program for obtaining attainment status for key monitored air pollution standards, based on existing and future air pollution emissions resulting from employment and residential growth projections. The Air Quality Management Plan (AQMP) is developed using input from various agencies' General Plans and other projections for population and employment growth. The MDAB is currently in nonattainment for ozone and PM10. The MDAQMD has adopted federal attainment plans (1995 for PM10 and 2004 for ozone) for these two pollutants.

Project construction would result in emissions of ozone precursors, VOCs and NOx, and particulate matter from equipment exhaust and fugitive dust during the approximately three-month construction period. Best Management Practices for the proposed project shall include use of water trucks to reduce particulate matter emissions during construction. In addition, a Dust Control Plan shall be developed and submitted to the County and MDAQMD for review and approval prior to issuance of a grading permit and/or land disturbance.

As shown below in Table 2.0-1, the project's emissions would not exceed the MDAQMD's significance thresholds. The proposed project is expected to have minimal impact on the air quality of the area and would produce relatively few emissions during construction (three-month period) and negligible emissions during operation. In addition, the development of renewable energy sources is expected to produce cumulative and regional environmental benefits. Overall, the project would not conflict with or obstruct implementation of the AQMP, therefore, impacts would be less than significant.

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?

Less Than Significant Impact. As shown in Table 2.0-1, emissions from construction of the proposed project would be below MDAQMD air quality significance thresholds for all pollutants. Specifically, the proposed project would not exceed MDAQMD significance thresholds for ozone precursors pollutants, VOC and NOx, as well as PM10 for which the MDAB is in non-attainment.

Table 2.0-1: Maximum Daily Criteria Pollutant Construction Emissions

Regional Thresholds (lbs/day)	VOC[1]	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Project Construction Emissions	4.55	50.26	32.81	0.10	20.41	11.99
MDAQMD Significance Thresholds[2]	137	137	548	137	82	65
Exceeds Threshold	**No**	**No**	**No**	**No**	**No**	**No**

[1]Volatile Organic Compound (also referred to as ROC or ROG)
[2]Source: https://www.mdaqmd.ca.gov/home/showdocument?id=538

c) Expose sensitive receptors to substantial pollutant concentrations?

Less Than Significant Impact. Sensitive receptors are defined as populations that are more susceptible to the effects of pollution than the population at large. The MDAQMD identifies the following as sensitive receptors: residences, schools, daycare centers, playgrounds, and medical facilities. The proposed project is not bordered by any sensitive receptors. The project site is located near vacant land uses that are zoned Rural Living.

The proposed project is not expected to produce cumulatively significant emissions for ozone or PM10. During construction activities, dust would be produced by general activity on-site, especially earth-moving activities. The MDAQMD Rule 403.2 requires that mitigation measures be implemented in order to reduce the amount of dust produced during construction periods. These standard mitigations measures include periodic watering via water truck to minimize any visible fugitive dust emissions, taking actions to prevent the tracking of bulk material onto public roads, and reducing non-essential earth-moving activities when wind exceeds gusts of 25 miles

per hour or an hourly average wind speed of 15 miles per hour. Any project-related spills or tracking of bulk material on public surfaces must be cleaned up within 24 hours as required by the MDAQMD. After construction has been completed, the amount of air pollutants is expected to be reduced considerably since photovoltaic energy production systems do not generate emissions that would cause reduction of air quality or produce objectionable odors. Air emissions would also occur during occasional maintenance. However, these emissions would be at nonsignificant levels (generally twice per year). However, it is recommended that maintenance vehicles be kept in good condition and not be allowed to idle for extended periods of time.

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

Less Than Significant Impact. Electricity generation via the use of photovoltaic systems does not generate chemical emissions that would negatively contribute to air quality or produce objectionable odors. Potential odor generation associated with the proposed project would be limited to construction sources such as diesel exhaust and dust. Construction emissions would be short-term in nature and would not be a significant source of odors. No significant odor impacts related to project operations are anticipated due to the nature and short-term extent of maintenance activities, as well as the fact that the project is not bordered by any sensitive receptors. The project would not result in emissions that could lead to odors affecting a substantial number of people, therefore, impacts would be less than significant.

2.2 GREENHOUSE GASES

Issues	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
GREENHOUSE GASES: Would the project:				
a) Generate GHG emissions, either directly or indirectly, that may have an adverse effect on the environment?	☐	☐	☒	☐
b) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs?	☐	☐	☒	☐

a) Would the project generate GHG emissions, either directly or indirectly, that may have an adverse effect on the environment?

Less Than Significant Impact. Construction of the project would generate GHG emissions and maximum daily emissions are shown in Table 2.0-2. As shown in Table 2.0-2, the project's construction emissions were below the MDAQMD's daily GHG threshold, therefore, the project would not generate GHG emissions that would have a significant impact on the environment and impacts would be less than significant.

Table 2.0-2: Maximum Daily GHG Construction Emissions

Thresholds (lbs/day)	**$MTCO_2e$**
Project Construction Emissions	9,807.55
MDAQMD Significance Thresholds[1]	528,000
Exceeds Threshold?	**No**

- [1]Source: https://www.mdaqmd.ca.gov/home/showdocument?id=538

b) Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs?

Less Than Significant Impact. The proposed project would be a net generator of clean, renewable energy that would reduce GHG emissions associated with generation of electricity from fossil fuels at other power plants. As a renewable energy generator, the proposed project would be consistent with state goals in AB 32 and 2017 Scoping Plan for reducing GHG emissions from fossil fuel sources, as well as support meeting Renewable Portfolio Standard requirements. The proposed project would not conflict with an applicable, plan, policy or regulation adopted for the purpose of reducing GHG emissions, therefore, impacts would be less than significant.

EXHIBIT A: CALEEMOD RESULTS

Sheep Creek Community Solar

Mojave Desert AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	838.53	1000sqft	19.25	838,530.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	30
Climate Zone	10			**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

Project Characteristics -

Land Use -

Architectural Coating - Solar PV arrays, no architectural coatings needed.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	419,265.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,257,795.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5487	50.2596	32.8094	0.0975	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	9,780.4002	9,780.4002	1.9482	0.0000	9,807.5462
2021	3.9048	31.2488	30.9625	0.0961	3.8207	0.9966	4.8173	1.0346	0.9370	1.9716	0.0000	9,638.0022	9,638.0022	1.0501	0.0000	9,664.2558
2022	0.5016	1.5818	3.9153	8.4200e-003	0.5750	0.0851	0.6602	0.1525	0.0849	0.2374	0.0000	823.8975	823.8975	0.0344	0.0000	824.7580
Maximum	**4.5487**	**50.2596**	**32.8094**	**0.0975**	**18.2141**	**2.1984**	**20.4125**	**9.9699**	**2.0225**	**11.9924**	**0.0000**	**9,780.4002**	**9,780.4002**	**1.9482**	**0.0000**	**9,807.5462**

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					
2020	4.5487	50.2596	32.8094	0.0975	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	9,780.4002	9,780.4002	1.9482	0.0000	9,807.5461
2021	3.9048	31.2488	30.9625	0.0961	3.8207	0.9966	4.8173	1.0346	0.9370	1.9716	0.0000	9,638.0022	9,638.0022	1.0501	0.0000	9,664.2558
2022	0.5016	1.5818	3.9153	8.4200e-003	0.5750	0.0851	0.6602	0.1525	0.0849	0.2374	0.0000	823.8975	823.8975	0.0344	0.0000	824.7580
Maximum	**4.5487**	**50.2596**	**32.8094**	**0.0975**	**18.2141**	**2.1984**	**20.4125**	**9.9699**	**2.0225**	**11.9924**	**0.0000**	**9,780.4002**	**9,780.4002**	**1.9482**	**0.0000**	**9,807.5461**

	ROG	NOx	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**

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	23.2767	7.9000e-004	0.0860	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		0.1835	0.1835	4.9000e-004		0.1957
Energy	0.8050	7.3177	6.1469	0.0439		0.5562	0.5562		0.5562	0.5562		8,781.2537	8,781.2537	0.1683	0.1610	8,833.4363
Mobile	14.9397	108.1713	149.7807	0.5896	36.4887	0.3687	36.8574	9.7664	0.3464	10.1129		60,236.2599	60,236.2599	4.3340		60,344.6102
Total	**39.0213**	**115.4898**	**156.0135**	**0.6335**	**36.4887**	**0.9252**	**37.4138**	**9.7664**	**0.9029**	**10.6693**		**69,017.6972**	**69,017.6972**	**4.5028**	**0.1610**	**69,178.2422**

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	23.2767	7.9000e-004	0.0860	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		0.1835	0.1835	4.9000e-004		0.1957
Energy	0.8050	7.3177	6.1469	0.0439		0.5562	0.5562		0.5562	0.5562		8,781.2537	8,781.2537	0.1683	0.1610	8,833.4363
Mobile	14.9397	108.1713	149.7807	0.5896	36.4887	0.3687	36.8574	9.7664	0.3464	10.1129		60,236.2599	60,236.2599	4.3340		60,344.6102
Total	**39.0213**	**115.4898**	**156.0135**	**0.6335**	**36.4887**	**0.9252**	**37.4138**	**9.7664**	**0.9029**	**10.6693**		**69,017.6972**	**69,017.6972**	**4.5028**	**0.1610**	**69,178.2422**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/29/2020	7/24/2020	5	20	
2	Site Preparation	Site Preparation	7/25/2020	8/7/2020	5	10	
3	Grading	Grading	8/8/2020	9/18/2020	5	30	
4	Building Construction	Building Construction	9/19/2020	11/12/2021	5	300	
5	Paving	Paving	11/13/2021	12/10/2021	5	20	
6	Architectural Coating	Architectural Coating	12/11/2021	1/7/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
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
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	352.00	137.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	70.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0740	0.0466	0.5439	1.2600e-003	0.1232	7.8000e-004	0.1240	0.0327	7.2000e-004	0.0334		125.2793	125.2793	4.3700e-003		125.3884
Total	**0.0740**	**0.0466**	**0.5439**	**1.2600e-003**	**0.1232**	**7.8000e-004**	**0.1240**	**0.0327**	**7.2000e-004**	**0.0334**		**125.2793**	**125.2793**	**4.3700e-003**		**125.3884**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0740	0.0466	0.5439	1.2600e-003	0.1232	7.8000e-004	0.1240	0.0327	7.2000e-004	0.0334		125.2793	125.2793	4.3700e-003		125.3884
Total	**0.0740**	**0.0466**	**0.5439**	**1.2600e-003**	**0.1232**	**7.8000e-004**	**0.1240**	**0.0327**	**7.2000e-004**	**0.0334**		**125.2793**	**125.2793**	**4.3700e-003**		**125.3884**

3.3 Site Preparation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0888	0.0559	0.6527	1.5100e-003	0.1479	9.4000e-004	0.1488	0.0392	8.6000e-004	0.0401		150.3351	150.3351	5.2400e-003		150.4661
Total	**0.0888**	**0.0559**	**0.6527**	**1.5100e-003**	**0.1479**	**9.4000e-004**	**0.1488**	**0.0392**	**8.6000e-004**	**0.0401**		**150.3351**	**150.3351**	**5.2400e-003**		**150.4661**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0888	0.0559	0.6527	1.5100e-003	0.1479	9.4000e-004	0.1488	0.0392	8.6000e-004	0.0401		150.3351	150.3351	5.2400e-003		150.4661
Total	**0.0888**	**0.0559**	**0.6527**	**1.5100e-003**	**0.1479**	**9.4000e-004**	**0.1488**	**0.0392**	**8.6000e-004**	**0.0401**		**150.3351**	**150.3351**	**5.2400e-003**		**150.4661**

3.4 Grading - 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					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**8.6733**	**2.1739**	**10.8472**	**3.5965**	**2.0000**	**5.5965**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0986	0.0621	0.7253	1.6800e-003	0.1643	1.0400e-003	0.1653	0.0436	9.6000e-004	0.0445		167.0390	167.0390	5.8200e-003		167.1846
Total	**0.0986**	**0.0621**	**0.7253**	**1.6800e-003**	**0.1643**	**1.0400e-003**	**0.1653**	**0.0436**	**9.6000e-004**	**0.0445**		**167.0390**	**167.0390**	**5.8200e-003**		**167.1846**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**8.6733**	**2.1739**	**10.8472**	**3.5965**	**2.0000**	**5.5965**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0986	0.0621	0.7253	1.6800e-003	0.1643	1.0400e-003	0.1653	0.0436	9.6000e-004	0.0445		167.0390	167.0390	5.8200e-003		167.1846
Total	**0.0986**	**0.0621**	**0.7253**	**1.6800e-003**	**0.1643**	**1.0400e-003**	**0.1653**	**0.0436**	**9.6000e-004**	**0.0445**		**167.0390**	**167.0390**	**5.8200e-003**		**167.1846**

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	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4553	14.1148	3.1966	0.0411	0.9291	0.0644	0.9935	0.2676	0.0616	0.3292		4,287.4505	4,287.4505	0.3605		4,296.4632
Worker	1.7358	1.0935	12.7644	0.0296	2.8916	0.0183	2.9099	0.7670	0.0169	0.7839		2,939.8867	2,939.8867	0.1025		2,942.4484
Total	**2.1911**	**15.2083**	**15.9609**	**0.0706**	**3.8207**	**0.0827**	**3.9034**	**1.0346**	**0.0785**	**1.1130**		**7,227.3372**	**7,227.3372**	**0.4630**		**7,238.9117**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4553	14.1148	3.1966	0.0411	0.9291	0.0644	0.9935	0.2676	0.0616	0.3292		4,287.4505	4,287.4505	0.3605		4,296.4632
Worker	1.7358	1.0935	12.7644	0.0296	2.8916	0.0183	2.9099	0.7670	0.0169	0.7839		2,939.8867	2,939.8867	0.1025		2,942.4484
Total	**2.1911**	**15.2083**	**15.9609**	**0.0706**	**3.8207**	**0.0827**	**3.9034**	**1.0346**	**0.0785**	**1.1130**		**7,227.3372**	**7,227.3372**	**0.4630**		**7,238.9117**

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	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3964	12.8427	2.7645	0.0407	0.9291	0.0204	0.9495	0.2676	0.0195	0.2870		4,254.5564	4,254.5564	0.3431		4,263.1329
Worker	1.6074	0.9740	11.6228	0.0284	2.8916	0.0177	2.9093	0.7670	0.0163	0.7833		2,830.0819	2,830.0819	0.0911		2,832.3586
Total	**2.0039**	**13.8167**	**14.3873**	**0.0692**	**3.8207**	**0.0380**	**3.8587**	**1.0346**	**0.0357**	**1.0703**		**7,084.6383**	**7,084.6383**	**0.4341**		**7,095.4915**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3964	12.8427	2.7645	0.0407	0.9291	0.0204	0.9495	0.2676	0.0195	0.2870		4,254.5564	4,254.5564	0.3431		4,263.1329
Worker	1.6074	0.9740	11.6228	0.0284	2.8916	0.0177	2.9093	0.7670	0.0163	0.7833		2,830.0819	2,830.0819	0.0911		2,832.3586
Total	**2.0039**	**13.8167**	**14.3873**	**0.0692**	**3.8207**	**0.0380**	**3.8587**	**1.0346**	**0.0357**	**1.0703**		**7,084.6383**	**7,084.6383**	**0.4341**		**7,095.4915**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2556**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0685	0.0415	0.4953	1.2100e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334		120.6001	120.6001	3.8800e-003		120.6971
Total	**0.0685**	**0.0415**	**0.4953**	**1.2100e-003**	**0.1232**	**7.5000e-004**	**0.1240**	**0.0327**	**6.9000e-004**	**0.0334**		**120.6001**	**120.6001**	**3.8800e-003**		**120.6971**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2556**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0685	0.0415	0.4953	1.2100e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334		120.6001	120.6001	3.8800e-003		120.6971
Total	**0.0685**	**0.0415**	**0.4953**	**1.2100e-003**	**0.1232**	**7.5000e-004**	**0.1240**	**0.0327**	**6.9000e-004**	**0.0334**		**120.6001**	**120.6001**	**3.8800e-003**		**120.6971**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					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	**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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3197	0.1937	2.3114	5.6600e-003	0.5750	3.5200e-003	0.5786	0.1525	3.2400e-003	0.1558		562.8004	562.8004	0.0181		563.2531
Total	**0.3197**	**0.1937**	**2.3114**	**5.6600e-003**	**0.5750**	**3.5200e-003**	**0.5786**	**0.1525**	**3.2400e-003**	**0.1558**		**562.8004**	**562.8004**	**0.0181**		**563.2531**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000					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	**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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3197	0.1937	2.3114	5.6600e-003	0.5750	3.5200e-003	0.5786	0.1525	3.2400e-003	0.1558		562.8004	562.8004	0.0181		563.2531
Total	**0.3197**	**0.1937**	**2.3114**	**5.6600e-003**	**0.5750**	**3.5200e-003**	**0.5786**	**0.1525**	**3.2400e-003**	**0.1558**		**562.8004**	**562.8004**	**0.0181**		**563.2531**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**0.2045**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2971	0.1733	2.1017	5.4500e-003	0.5750	3.4000e-003	0.5784	0.1525	3.1300e-003	0.1557		542.4495	542.4495	0.0161		542.8518
Total	**0.2971**	**0.1733**	**2.1017**	**5.4500e-003**	**0.5750**	**3.4000e-003**	**0.5784**	**0.1525**	**3.1300e-003**	**0.1557**		**542.4495**	**542.4495**	**0.0161**		**542.8518**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**0.2045**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2971	0.1733	2.1017	5.4500e-003	0.5750	3.4000e-003	0.5784	0.1525	3.1300e-003	0.1557		542.4495	542.4495	0.0161		542.8518
Total	**0.2971**	**0.1733**	**2.1017**	**5.4500e-003**	**0.5750**	**3.4000e-003**	**0.5784**	**0.1525**	**3.1300e-003**	**0.1557**		**542.4495**	**542.4495**	**0.0161**		**542.8518**

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	14.9397	108.1713	149.7807	0.5896	36.4887	0.3687	36.8574	9.7664	0.3464	10.1129		60,236.2599	60,236.2599	4.3340		60,344.6102
Unmitigated	14.9397	108.1713	149.7807	0.5896	36.4887	0.3687	36.8574	9.7664	0.3464	10.1129		60,236.2599	60,236.2599	4.3340		60,344.6102

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	5,844.55	1,106.86	570.20	12,887,486	12,887,486
Total	5,844.55	1,106.86	570.20	12,887,486	12,887,486

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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.538252	0.036119	0.174699	0.110250	0.018708	0.005523	0.008817	0.093315	0.001422	0.002225	0.008861	0.000710	0.001098

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	0.8050	7.3177	6.1469	0.0439		0.5562	0.5562		0.5562	0.5562		8,781.2537	8,781.2537	0.1683	0.1610	8,833.4363
NaturalGas Unmitigated	0.8050	7.3177	6.1469	0.0439		0.5562	0.5562		0.5562	0.5562		8,781.2537	8,781.2537	0.1683	0.1610	8,833.4363

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					
General Light Industry	74640.7	0.8050	7.3177	6.1469	0.0439		0.5562	0.5562		0.5562	0.5562		8,781.2537	8,781.2537	0.1683	0.1610	8,833.4363
Total		**0.8050**	**7.3177**	**6.1469**	**0.0439**		**0.5562**	**0.5562**		**0.5562**	**0.5562**		**8,781.2537**	**8,781.2537**	**0.1683**	**0.1610**	**8,833.4363**

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					
General Light Industry	74.6407	0.8050	7.3177	6.1469	0.0439		0.5562	0.5562		0.5562	0.5562		8,781.2537	8,781.2537	0.1683	0.1610	8,833.4363
Total		**0.8050**	**7.3177**	**6.1469**	**0.0439**		**0.5562**	**0.5562**		**0.5562**	**0.5562**		**8,781.2537**	**8,781.2537**	**0.1683**	**0.1610**	**8,833.4363**

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	23.2767	7.9000e-004	0.0860	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		0.1835	0.1835	4.9000e-004		0.1957
Unmitigated	23.2767	7.9000e-004	0.0860	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		0.1835	0.1835	4.9000e-004		0.1957

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	5.3241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	17.9445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0300e-003	7.9000e-004	0.0860	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		0.1835	0.1835	4.9000e-004		0.1957
Total	**23.2767**	**7.9000e-004**	**0.0860**	**1.0000e-005**		**3.1000e-004**	**3.1000e-004**		**3.1000e-004**	**3.1000e-004**		**0.1835**	**0.1835**	**4.9000e-004**		**0.1957**

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	5.3241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	17.9445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0300e-003	7.9000e-004	0.0860	1.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		0.1835	0.1835	4.9000e-004		0.1957
Total	**23.2767**	**7.9000e-004**	**0.0860**	**1.0000e-005**		**3.1000e-004**	**3.1000e-004**		**3.1000e-004**	**3.1000e-004**		**0.1835**	**0.1835**	**4.9000e-004**		**0.1957**

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