

**APPENDIX F**

**AIR QUALITY AND GREENHOUSE GAS EMISSIONS  
ASSESSMENT**

## **1.0 PROJECT LOCATION AND DESCRIPTION**

Air quality and greenhouse gas (GHG) emissions impacts were evaluated in support of an Initial Study/Mitigated Negative Declaration (IS/MND) prepared under the California Environmental Quality Act (CEQA). The IS/MND covers a proposed warehouse facility on Mango Avenue north of Sierra Lakes Parkway, in Fontana, California. Immediately west of the project site is a Les Schwab Tire Center, which is an outlet of a multistate tire retail chain, and across Mango Avenue to the east is the Mid-Valley Sanitary Landfill. To the west, across Sierra Avenue, is a large subdivision of single-family residences.

The proposed project consists of the development of a 115,100-square-foot warehouse, located on an approximately 5.8-acre parcel. The warehouse would comprise a 6,000-square-foot office, a 4,000-square-foot office mezzanine and 105,100 square feet of warehouse space. It would have 19 dock doors, trailer stalls, and 90 automobile parking stalls, of which six would be ADA parking spaces.

## **2.0 NEED AND METHODOLOGY**

Under the California Environmental Quality Act (CEQA) and its guidelines, impacts on air quality and impacts of GHG emissions must be addressed for discretionary projects, unless specifically exempted. Any warehouse project has the potential for both short- and long-term air quality and GHG emissions impacts.

### **2.1 Air Quality Methods**

UltraSystems reviewed federal, State of California and South Coast Air Management District (SCAQMD) laws, regulations and standards for their applicability to the proposed project. The South Coast Air Basin, in which Fontana is located, is currently in nonattainment of federal standards for ambient concentrations of the criteria pollutants ozone (O<sub>3</sub>) and fine particulate matter (PM<sub>2.5</sub>) and of state standards for O<sub>3</sub>, PM<sub>2.5</sub>, and respirable particulate matter (PM<sub>10</sub>). Recent data demonstrating nonattainment are summarized in the Initial Study. The SCAQMD, in concert with the Southern California Association of Governments (SCAG) has developed an air quality management plan (AQMP) to reduce criteria pollutant emissions enough to reach attainment with ambient air quality standards. It has also published CEQA-related significance thresholds for criteria pollutant emissions.

#### **2.1.1 Short-term (Construction) Impacts**

For the purpose of this analysis, it was estimated that the construction of the proposed project would begin in early November 2020 and end in late July 2021. The types and numbers of pieces of equipment anticipated in each phase of construction and development were estimated using the California Emissions Estimator Model (CalEEMod), Version 2016.3.2. The CalEEMod equipment mix is based on a construction survey performed by the South Coast Air Quality Management District. CalEEMod was used to estimate the maximum daily emissions of each criteria pollutant.

The SCAQMD has also developed a screening method for “localized significance analysis” of nitrogen dioxide (NO<sub>2</sub>), carbon monoxide (CO), PM<sub>10</sub> and PM<sub>2.5</sub>, which compares onsite construction emissions with thresholds based on geographical location and project area (in acres). If onsite emissions of nitrogen oxides (NO<sub>x</sub>), CO, PM<sub>10</sub>, or PM<sub>2.5</sub> exceed their published thresholds, then they are considered to be significant under CEQA. The method is conservative, in that in some cases a more detailed analysis, such as dispersion modeling, predicts lower exposures.

### 2.1.2 Long-term (Operational) Impacts

The main sources of long-term air quality impacts are onroad motor vehicles, including trucks in freight service. For air quality analysis purposes, the operational trip values were obtained from a trip generation memorandum prepared for this project (see **Appendix J**).<sup>1</sup> The trip distances were assumed to be those from the project site to the Port of Long Beach.<sup>2</sup> CalEEMod was used to estimate maximum daily regional emissions of all criteria pollutants; these were then compared with the aforementioned SCAQMD CEQA thresholds.

Carbon monoxide exposures due to increases in traffic can be locally significant. Because CO concentrations are so low that they are no longer even monitored, and project emissions are also small, localized impacts of CO were evaluated qualitatively.

A large percentage of the traffic generated by the project will comprise diesel trucks. Diesel trucks emit diesel particulate matter (DPM), a mixture of various compounds that, in the aggregate, is a known and potent human carcinogen. UltraSystems prepared a “screening” health risk assessment (HRA), based on a formal HRA conducted for a nearby warehouse project in Fontana.

## 2.2 Greenhouse Gas Emissions Methods

Temporary construction and long-term operational GHG emissions from the project’s onsite and offsite project activities were calculated using the aforementioned CalEEMod software. Operational emissions consider area emissions, such as space heating, from energy use associated with land uses, and from the vehicle trips associated with the land uses. To assess the overall lifetime project GHG emissions, the SCAQMD developed an Interim Guidance that recommends that construction emissions should be amortized over the life of the project, defined in the guidance as 30 years. Annualized GHG emissions are then added to the operational emissions and the sum is compared to the applicable interim GHG significance threshold.

CEQA Guidelines require a determination of whether the project would interfere with various plans, policies, and regulations aimed at reducing GHG emissions. As the City does not have a climate action plan or a GHG reduction plan, the project was reviewed against policies in the General Plan Update that reduce GHG emissions and help to quantify emissions reductions.

## 3.0 PROJECT IMPACTS

### 3.1 Air Quality

#### 3.1.1 Regional Criteria Pollutant Emissions

The CalEEMod analysis determined that emissions of all the criteria pollutants during both construction and operation of the project would be below their respective SCAQMD thresholds. No project-specific mitigation is necessary.

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1 Both CalEEMod and the trip generation memorandum estimated an average daily trip (ADT) rate of 200. The memorandum also calculated a passenger car equivalent ADT of 262. (See **Appendix J**.) For a “worst case,” the 262 ADT value was used for the air quality and greenhouse gas emissions calculations.

2 The average distance between the project and the two nearest major ports (Port of Los Angeles and Port of Long Beach) is about 70 miles. For a “worst case,” this length was used for all types of vehicles and trips in the operational phase.

### 3.1.2 Localized Significance Analysis

The residences on the west side of Sierra Avenue are the nearest sensitive receptors (a minimum of 177 meters from the project border). Localized significance thresholds for projects in Source Receptor Area 34 were obtained from tables in Appendix C of the SCAQMD's Final Localized Significance Threshold Methodology. Comparison of these thresholds with onsite construction emissions showed that localized short-term air quality impacts from construction of the proposed project would be less than significant.

### 3.1.3 Health Risk Assessment

A formal health risk assessment, based on the results of dispersion modeling of diesel particulate matter emissions, was prepared recently for the Fontana Boyle Warehouse Project, which is 5.4 miles from the Mango site. The maximum individual cancer risk from the Boyle project for an offsite sensitive receptor was estimated to be 0.63 in one million, which is lower than the SCAQMD's significance threshold of 10 in one million. The Mango warehouse would be smaller than the one for Boyle and presumably would have less diesel truck traffic. The meteorology for the two sites would be identical. The distances to the nearest residential receptor are similar for both projects. Therefore, it is reasonable to estimate that the cancer risk to residents surrounding the Mango site would not be higher than those for the Boyle site. The cancer risk from diesel truck traffic generated by the Mango project is therefore less than significant.

## 3.2 Greenhouse Gas Emissions

### 3.2.1 Emission Estimates

CalEEMod estimated construction GHG emissions to be 231.2 metric tons (MT) of carbon dioxide equivalent (CO<sub>2</sub>e). The 30-year annualized value is 7.71 MT per year. CalEEMod estimated annual operating GHG emissions to be 2,871 MT per year. Mobile sources account for about 89.5% of these emissions.

With the addition of the amortized construction emissions, the total project GHG emissions would be 2,879 MT per year, less than the SCAQMD's recommended significance threshold of 3,000 MT of CO<sub>2</sub>e per year. Therefore, GHG emissions would be less than significant, and no mitigation is necessary.

### 3.2.2 Consistency with GHG Reduction Plans

An approach to identifying potential conflict with GHG reduction plans, policies, or regulations is to examine General Plan provisions that prescribe or enable GHG emissions control. The EIR for the General Plan Update lists policies in the General Plan Update that reduce GHG emissions and help to quantify emissions reductions. Even though the policies prescribe actions to be taken by the City, and not measures to be implemented by a project proponent, the proposed project would not conflict with any of the GHG emission reduction policies. Furthermore, the EIR determined that implementation of the updated general plan will result in significantly lower GHG emissions from Fontana than would continuation of the 2003 General Plan. As was demonstrated in **Section 4.11** of the Initial Study, the proposed project would have less than significant impacts in relation to consistency with local land use plans, policies, or regulations. Therefore, the project would not hinder the GHG emission reductions of the General Plan Update.

Finally, as noted in **Section 3.2.5** of the Initial Study, buildings will be designed to comply with the provisions of the California Green Building Code, Title 24, Part 11 of the California Code of Regulations. As noted in **Section 3.3.4** of the Initial Study, the proposed project would comply with the requirements of Fontana Municipal Code §§ 30-260, 30-265, and 30-266 with wall-mounted light-emitting diode (LED) lighting fixtures on the northern, eastern and western sides of the building and five pole-mounted LED lighting fixtures are proposed along the northern property line, in the truck yard area. Additionally, as noted in **Section 3.3.5** of the Initial Study, new landscaping would include drought-resistant species including trees, tall shrubs, low shrubs and groundcovers. These project features will assist the City in meeting its GHG emission reduction targets.

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

**Mango Avenue Industrial Warehouse**  
**San Bernardino-South Coast County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	115.10	1000sqft	2.64	115,100.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use -

Construction Phase - General schedule supplied by client

Off-road Equipment -

Off-road Equipment - Equipment list supplied by client

Off-road Equipment - Equipment list supplied by client

Off-road Equipment - Equipment list supplied by client

Off-road Equipment - Equipment list supplied by client

Grading - Site is 5.8 acres

Architectural Coating - Per SCAQMD Rule 1113

Vehicle Trips - Trip rate data from traffic engineer

Trip length data from travel distance to ports - worst case scenario

Energy Use -

Area Mitigation - Per SCAQMD Rule 1113

Fleet Mix -

## Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstructionPhase	NumDays	220.00	165.00
tblGrading	AcresOfGrading	4.50	5.80
tblGrading	AcresOfGrading	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblVehicleTrips	CC_TL	8.40	70.00
tblVehicleTrips	CNW_TL	6.90	70.00
tblVehicleTrips	CW_TL	16.60	70.00
tblVehicleTrips	ST_TR	1.68	2.28
tblVehicleTrips	SU_TR	1.68	2.28
tblVehicleTrips	WD_TR	1.68	2.28



Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

**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	2.9328	28.9995	18.2209	0.0405	7.2149	1.3303	8.5452	3.4654	1.2238	4.6892	0.0000	3,856.8699	3,856.8699	1.0669	0.0000	3,877.7429
2021	53.6186	22.7238	17.6288	0.0403	0.6582	0.9483	1.6065	0.1773	0.8907	1.0680	0.0000	3,836.3123	3,836.3123	0.8211	0.0000	3,856.8395
<b>Maximum</b>	<b>53.6186</b>	<b>28.9995</b>	<b>18.2209</b>	<b>0.0405</b>	<b>7.2149</b>	<b>1.3303</b>	<b>8.5452</b>	<b>3.4654</b>	<b>1.2238</b>	<b>4.6892</b>	<b>0.0000</b>	<b>3,856.8699</b>	<b>3,856.8699</b>	<b>1.0669</b>	<b>0.0000</b>	<b>3,877.7429</b>

**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	2.9328	28.9995	18.2209	0.0405	7.2149	1.3303	8.5452	3.4654	1.2238	4.6892	0.0000	3,856.8698	3,856.8698	1.0669	0.0000	3,877.7429
2021	53.6186	22.7238	17.6288	0.0403	0.6582	0.9483	1.6065	0.1773	0.8907	1.0680	0.0000	3,836.3123	3,836.3123	0.8211	0.0000	3,856.8395
<b>Maximum</b>	<b>53.6186</b>	<b>28.9995</b>	<b>18.2209</b>	<b>0.0405</b>	<b>7.2149</b>	<b>1.3303</b>	<b>8.5452</b>	<b>3.4654</b>	<b>1.2238</b>	<b>4.6892</b>	<b>0.0000</b>	<b>3,856.8698</b>	<b>3,856.8698</b>	<b>1.0669</b>	<b>0.0000</b>	<b>3,877.7429</b>



Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

**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	2.5724	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0252	0.0252	7.0000e-005		0.0269
Energy	6.9000e-003	0.0628	0.0527	3.8000e-004		4.7700e-003	4.7700e-003		4.7700e-003	4.7700e-003		75.3112	75.3112	1.4400e-003	1.3800e-003	75.7587
Mobile	1.7537	12.9220	39.7580	0.1624	13.2951	0.1098	13.4049	3.5576	0.1028	3.6605		16,527.3999	16,527.3999	0.5854		16,542.0354
<b>Total</b>	<b>4.3330</b>	<b>12.9849</b>	<b>39.8225</b>	<b>0.1628</b>	<b>13.2951</b>	<b>0.1146</b>	<b>13.4097</b>	<b>3.5576</b>	<b>0.1076</b>	<b>3.6653</b>		<b>16,602.7363</b>	<b>16,602.7363</b>	<b>0.5869</b>	<b>1.3800e-003</b>	<b>16,617.8210</b>

**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	2.4262	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0252	0.0252	7.0000e-005		0.0269
Energy	6.9000e-003	0.0628	0.0527	3.8000e-004		4.7700e-003	4.7700e-003		4.7700e-003	4.7700e-003		75.3112	75.3112	1.4400e-003	1.3800e-003	75.7587
Mobile	1.7537	12.9220	39.7580	0.1624	13.2951	0.1098	13.4049	3.5576	0.1028	3.6605		16,527.3999	16,527.3999	0.5854		16,542.0354
<b>Total</b>	<b>4.1868</b>	<b>12.9849</b>	<b>39.8225</b>	<b>0.1628</b>	<b>13.2951</b>	<b>0.1146</b>	<b>13.4097</b>	<b>3.5576</b>	<b>0.1076</b>	<b>3.6653</b>		<b>16,602.7363</b>	<b>16,602.7363</b>	<b>0.5869</b>	<b>1.3800e-003</b>	<b>16,617.8210</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, 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
Percent Reduction	3.37	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	Grading	Grading	11/1/2020	11/9/2020	5	6	
2	Site Preparation	Site Preparation	11/10/2020	11/12/2020	5	3	
3	Building Construction	Building Construction	11/13/2020	7/1/2021	5	165	
4	Utility Improvements	Trenching	7/2/2021	7/15/2021	5	10	
5	Architectural Coating	Architectural Coating	7/16/2021	7/29/2021	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 5.8

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 172,650; Non-Residential Outdoor: 57,550; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	6.00	158	0.38
Grading	Graders	0	0.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	6.00	203	0.36
Grading	Scrapers	1	6.00	367	0.48

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Site Preparation	Cement and Mortar Mixers	1	7.00	9	0.56
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Plate Compactors	1	6.00	8	0.43
Site Preparation	Scrapers	0	0.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Building Construction	Aerial Lifts	1	6.00	63	0.31
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	0	0.00	84	0.74
Building Construction	Graders	1	4.00	187	0.41
Building Construction	Plate Compactors	1	4.00	8	0.43
Building Construction	Rollers	1	6.00	80	0.38
Building Construction	Rubber Tired Loaders	1	6.00	203	0.36
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Utility Improvements	Cement and Mortar Mixers	0	0.00	9	0.56
Utility Improvements	Pavers	0	0.00	130	0.42
Utility Improvements	Paving Equipment	0	0.00	132	0.36
Utility Improvements	Rollers	0	0.00	80	0.38
Utility Improvements	Rubber Tired Loaders	1	6.00	203	0.36
Utility Improvements	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Utility Improvements	Trenchers	1	7.00	78	0.50
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

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
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	48.00	19.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Improvements	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 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					7.0472	0.0000	7.0472	3.4209	0.0000	3.4209			0.0000			0.0000
Off-Road	2.6551	28.9470	17.3925	0.0339		1.3292	1.3292		1.2228	1.2228		3,282.9075	3,282.9075	1.0618		3,309.4515
<b>Total</b>	<b>2.6551</b>	<b>28.9470</b>	<b>17.3925</b>	<b>0.0339</b>	<b>7.0472</b>	<b>1.3292</b>	<b>8.3764</b>	<b>3.4209</b>	<b>1.2228</b>	<b>4.6437</b>		<b>3,282.9075</b>	<b>3,282.9075</b>	<b>1.0618</b>		<b>3,309.4515</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

**3.2 Grading - 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	0.0819	0.0525	0.6746	1.7000e-003	0.1677	1.1000e-003	0.1688	0.0445	1.0100e-003	0.0455		169.5126	169.5126	5.1700e-003		169.6420
<b>Total</b>	<b>0.0819</b>	<b>0.0525</b>	<b>0.6746</b>	<b>1.7000e-003</b>	<b>0.1677</b>	<b>1.1000e-003</b>	<b>0.1688</b>	<b>0.0445</b>	<b>1.0100e-003</b>	<b>0.0455</b>		<b>169.5126</b>	<b>169.5126</b>	<b>5.1700e-003</b>		<b>169.6420</b>

**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					7.0472	0.0000	7.0472	3.4209	0.0000	3.4209			0.0000			0.0000
Off-Road	2.6551	28.9470	17.3925	0.0339		1.3292	1.3292		1.2228	1.2228	0.0000	3,282.9075	3,282.9075	1.0618		3,309.4515
<b>Total</b>	<b>2.6551</b>	<b>28.9470</b>	<b>17.3925</b>	<b>0.0339</b>	<b>7.0472</b>	<b>1.3292</b>	<b>8.3764</b>	<b>3.4209</b>	<b>1.2228</b>	<b>4.6437</b>	<b>0.0000</b>	<b>3,282.9075</b>	<b>3,282.9075</b>	<b>1.0618</b>		<b>3,309.4515</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

**3.2 Grading - 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	0.0819	0.0525	0.6746	1.7000e-003	0.1677	1.1000e-003	0.1688	0.0445	1.0100e-003	0.0455		169.5126	169.5126	5.1700e-003		169.6420
<b>Total</b>	<b>0.0819</b>	<b>0.0525</b>	<b>0.6746</b>	<b>1.7000e-003</b>	<b>0.1677</b>	<b>1.1000e-003</b>	<b>0.1688</b>	<b>0.0445</b>	<b>1.0100e-003</b>	<b>0.0455</b>		<b>169.5126</b>	<b>169.5126</b>	<b>5.1700e-003</b>		<b>169.6420</b>

**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					0.3535	0.0000	0.3535	0.0382	0.0000	0.0382			0.0000			0.0000
Off-Road	0.0815	0.5106	0.4277	9.9000e-004		0.0199	0.0199		0.0199	0.0199		70.0613	70.0613	7.2700e-003		70.2432
<b>Total</b>	<b>0.0815</b>	<b>0.5106</b>	<b>0.4277</b>	<b>9.9000e-004</b>	<b>0.3535</b>	<b>0.0199</b>	<b>0.3734</b>	<b>0.0382</b>	<b>0.0199</b>	<b>0.0580</b>		<b>70.0613</b>	<b>70.0613</b>	<b>7.2700e-003</b>		<b>70.2432</b>



Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

**3.3 Site Preparation - 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	0.0273	0.0175	0.2249	5.7000e-004	0.0559	3.7000e-004	0.0563	0.0148	3.4000e-004	0.0152		56.5042	56.5042	1.7200e-003		56.5473
<b>Total</b>	<b>0.0273</b>	<b>0.0175</b>	<b>0.2249</b>	<b>5.7000e-004</b>	<b>0.0559</b>	<b>3.7000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>3.4000e-004</b>	<b>0.0152</b>		<b>56.5042</b>	<b>56.5042</b>	<b>1.7200e-003</b>		<b>56.5473</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3535	0.0000	0.3535	0.0382	0.0000	0.0382			0.0000			0.0000
Off-Road	0.0815	0.5106	0.4277	9.9000e-004		0.0199	0.0199		0.0199	0.0199	0.0000	70.0613	70.0613	7.2700e-003		70.2432
<b>Total</b>	<b>0.0815</b>	<b>0.5106</b>	<b>0.4277</b>	<b>9.9000e-004</b>	<b>0.3535</b>	<b>0.0199</b>	<b>0.3734</b>	<b>0.0382</b>	<b>0.0199</b>	<b>0.0580</b>	<b>0.0000</b>	<b>70.0613</b>	<b>70.0613</b>	<b>7.2700e-003</b>		<b>70.2432</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

**3.3 Site Preparation - 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	0.0273	0.0175	0.2249	5.7000e-004	0.0559	3.7000e-004	0.0563	0.0148	3.4000e-004	0.0152		56.5042	56.5042	1.7200e-003		56.5473
<b>Total</b>	<b>0.0273</b>	<b>0.0175</b>	<b>0.2249</b>	<b>5.7000e-004</b>	<b>0.0559</b>	<b>3.7000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>3.4000e-004</b>	<b>0.0152</b>		<b>56.5042</b>	<b>56.5042</b>	<b>1.7200e-003</b>		<b>56.5473</b>

**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	2.6131	22.5942	15.6714	0.0299		1.0780	1.0780		1.0130	1.0130		2,770.8368	2,770.8368	0.7831		2,790.4132
<b>Total</b>	<b>2.6131</b>	<b>22.5942</b>	<b>15.6714</b>	<b>0.0299</b>		<b>1.0780</b>	<b>1.0780</b>		<b>1.0130</b>	<b>1.0130</b>		<b>2,770.8368</b>	<b>2,770.8368</b>	<b>0.7831</b>		<b>2,790.4132</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

**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	0.0577	2.0051	0.3908	5.1500e-003	0.1217	9.2300e-003	0.1309	0.0350	8.8300e-003	0.0439		543.5926	543.5926	0.0353		544.4753
Worker	0.2620	0.1681	2.1587	5.4500e-003	0.5365	3.5200e-003	0.5400	0.1423	3.2400e-003	0.1455		542.4404	542.4404	0.0166		542.8544
<b>Total</b>	<b>0.3197</b>	<b>2.1732</b>	<b>2.5495</b>	<b>0.0106</b>	<b>0.6582</b>	<b>0.0128</b>	<b>0.6710</b>	<b>0.1773</b>	<b>0.0121</b>	<b>0.1894</b>		<b>1,086.0330</b>	<b>1,086.0330</b>	<b>0.0519</b>		<b>1,087.3297</b>

**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	2.6131	22.5942	15.6714	0.0299		1.0780	1.0780		1.0130	1.0130	0.0000	2,770.8368	2,770.8368	0.7831		2,790.4132
<b>Total</b>	<b>2.6131</b>	<b>22.5942</b>	<b>15.6714</b>	<b>0.0299</b>		<b>1.0780</b>	<b>1.0780</b>		<b>1.0130</b>	<b>1.0130</b>	<b>0.0000</b>	<b>2,770.8368</b>	<b>2,770.8368</b>	<b>0.7831</b>		<b>2,790.4132</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

**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	0.0577	2.0051	0.3908	5.1500e-003	0.1217	9.2300e-003	0.1309	0.0350	8.8300e-003	0.0439		543.5926	543.5926	0.0353		544.4753
Worker	0.2620	0.1681	2.1587	5.4500e-003	0.5365	3.5200e-003	0.5400	0.1423	3.2400e-003	0.1455		542.4404	542.4404	0.0166		542.8544
<b>Total</b>	<b>0.3197</b>	<b>2.1732</b>	<b>2.5495</b>	<b>0.0106</b>	<b>0.6582</b>	<b>0.0128</b>	<b>0.6710</b>	<b>0.1773</b>	<b>0.0121</b>	<b>0.1894</b>		<b>1,086.0330</b>	<b>1,086.0330</b>	<b>0.0519</b>		<b>1,087.3297</b>

**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	2.3617	20.7408	15.2969	0.0299		0.9417	0.9417		0.8845	0.8845		2,770.4339	2,770.4339	0.7720		2,789.7332
<b>Total</b>	<b>2.3617</b>	<b>20.7408</b>	<b>15.2969</b>	<b>0.0299</b>		<b>0.9417</b>	<b>0.9417</b>		<b>0.8845</b>	<b>0.8845</b>		<b>2,770.4339</b>	<b>2,770.4339</b>	<b>0.7720</b>		<b>2,789.7332</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

**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	0.0492	1.8323	0.3448	5.1300e-003	0.1217	3.1400e-003	0.1248	0.0350	3.0000e-003	0.0380		540.7197	540.7197	0.0342		541.5740
Worker	0.2439	0.1508	1.9871	5.2700e-003	0.5365	3.4300e-003	0.5400	0.1423	3.1600e-003	0.1455		525.1587	525.1587	0.0150		525.5323
<b>Total</b>	<b>0.2931</b>	<b>1.9831</b>	<b>2.3319</b>	<b>0.0104</b>	<b>0.6582</b>	<b>6.5700e-003</b>	<b>0.6648</b>	<b>0.1773</b>	<b>6.1600e-003</b>	<b>0.1835</b>		<b>1,065.8783</b>	<b>1,065.8783</b>	<b>0.0491</b>		<b>1,067.1063</b>

**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	2.3617	20.7408	15.2969	0.0299		0.9417	0.9417		0.8845	0.8845	0.0000	2,770.4339	2,770.4339	0.7720		2,789.7332
<b>Total</b>	<b>2.3617</b>	<b>20.7408</b>	<b>15.2969</b>	<b>0.0299</b>		<b>0.9417</b>	<b>0.9417</b>		<b>0.8845</b>	<b>0.8845</b>	<b>0.0000</b>	<b>2,770.4339</b>	<b>2,770.4339</b>	<b>0.7720</b>		<b>2,789.7332</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

**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	0.0492	1.8323	0.3448	5.1300e-003	0.1217	3.1400e-003	0.1248	0.0350	3.0000e-003	0.0380		540.7197	540.7197	0.0342		541.5740
Worker	0.2439	0.1508	1.9871	5.2700e-003	0.5365	3.4300e-003	0.5400	0.1423	3.1600e-003	0.1455		525.1587	525.1587	0.0150		525.5323
<b>Total</b>	<b>0.2931</b>	<b>1.9831</b>	<b>2.3319</b>	<b>0.0104</b>	<b>0.6582</b>	<b>6.5700e-003</b>	<b>0.6648</b>	<b>0.1773</b>	<b>6.1600e-003</b>	<b>0.1835</b>		<b>1,065.8783</b>	<b>1,065.8783</b>	<b>0.0491</b>		<b>1,067.1063</b>

**3.5 Utility Improvements - 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	0.7792	7.8667	5.7398	0.0108		0.4315	0.4315		0.3970	0.3970		1,040.8769	1,040.8769	0.3366		1,049.2930
<b>Total</b>	<b>0.7792</b>	<b>7.8667</b>	<b>5.7398</b>	<b>0.0108</b>		<b>0.4315</b>	<b>0.4315</b>		<b>0.3970</b>	<b>0.3970</b>		<b>1,040.8769</b>	<b>1,040.8769</b>	<b>0.3366</b>		<b>1,049.2930</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

**3.5 Utility Improvements - 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	0.0407	0.0251	0.3312	8.8000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		87.5264	87.5264	2.4900e-003		87.5887
<b>Total</b>	<b>0.0407</b>	<b>0.0251</b>	<b>0.3312</b>	<b>8.8000e-004</b>	<b>0.0894</b>	<b>5.7000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.3000e-004</b>	<b>0.0242</b>		<b>87.5264</b>	<b>87.5264</b>	<b>2.4900e-003</b>		<b>87.5887</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7792	7.8667	5.7398	0.0108		0.4315	0.4315		0.3970	0.3970	0.0000	1,040.8769	1,040.8769	0.3366		1,049.2930
<b>Total</b>	<b>0.7792</b>	<b>7.8667</b>	<b>5.7398</b>	<b>0.0108</b>		<b>0.4315</b>	<b>0.4315</b>		<b>0.3970</b>	<b>0.3970</b>	<b>0.0000</b>	<b>1,040.8769</b>	<b>1,040.8769</b>	<b>0.3366</b>		<b>1,049.2930</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

**3.5 Utility Improvements - 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	0.0407	0.0251	0.3312	8.8000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		87.5264	87.5264	2.4900e-003		87.5887
<b>Total</b>	<b>0.0407</b>	<b>0.0251</b>	<b>0.3312</b>	<b>8.8000e-004</b>	<b>0.0894</b>	<b>5.7000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.3000e-004</b>	<b>0.0242</b>		<b>87.5264</b>	<b>87.5264</b>	<b>2.4900e-003</b>		<b>87.5887</b>

**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	53.3489					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
<b>Total</b>	<b>53.5678</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>



Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

**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	0.0508	0.0314	0.4140	1.1000e-003	0.1118	7.1000e-004	0.1125	0.0296	6.6000e-004	0.0303		109.4081	109.4081	3.1100e-003		109.4859
<b>Total</b>	<b>0.0508</b>	<b>0.0314</b>	<b>0.4140</b>	<b>1.1000e-003</b>	<b>0.1118</b>	<b>7.1000e-004</b>	<b>0.1125</b>	<b>0.0296</b>	<b>6.6000e-004</b>	<b>0.0303</b>		<b>109.4081</b>	<b>109.4081</b>	<b>3.1100e-003</b>		<b>109.4859</b>

**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	53.3489					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
<b>Total</b>	<b>53.5678</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

**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	0.0508	0.0314	0.4140	1.1000e-003	0.1118	7.1000e-004	0.1125	0.0296	6.6000e-004	0.0303		109.4081	109.4081	3.1100e-003		109.4859
<b>Total</b>	<b>0.0508</b>	<b>0.0314</b>	<b>0.4140</b>	<b>1.1000e-003</b>	<b>0.1118</b>	<b>7.1000e-004</b>	<b>0.1125</b>	<b>0.0296</b>	<b>6.6000e-004</b>	<b>0.0303</b>		<b>109.4081</b>	<b>109.4081</b>	<b>3.1100e-003</b>		<b>109.4859</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, 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					
Mitigated	1.7537	12.9220	39.7580	0.1624	13.2951	0.1098	13.4049	3.5576	0.1028	3.6605		16,527.3999	16,527.3999	0.5854		16,542.0354
Unmitigated	1.7537	12.9220	39.7580	0.1624	13.2951	0.1098	13.4049	3.5576	0.1028	3.6605		16,527.3999	16,527.3999	0.5854		16,542.0354

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	262.43	262.43	262.43	6,235,602	6,235,602
Total	262.43	262.43	262.43	6,235,602	6,235,602

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	70.00	70.00	70.00	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

5.0 Energy Detail

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Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

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	6.9000e-003	0.0628	0.0527	3.8000e-004		4.7700e-003	4.7700e-003		4.7700e-003	4.7700e-003		75.3112	75.3112	1.4400e-003	1.3800e-003	75.7587
NaturalGas Unmitigated	6.9000e-003	0.0628	0.0527	3.8000e-004		4.7700e-003	4.7700e-003		4.7700e-003	4.7700e-003		75.3112	75.3112	1.4400e-003	1.3800e-003	75.7587

**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					
Unrefrigerated Warehouse-No Rail	640.145	6.9000e-003	0.0628	0.0527	3.8000e-004		4.7700e-003	4.7700e-003		4.7700e-003	4.7700e-003		75.3112	75.3112	1.4400e-003	1.3800e-003	75.7587
<b>Total</b>		<b>6.9000e-003</b>	<b>0.0628</b>	<b>0.0527</b>	<b>3.8000e-004</b>		<b>4.7700e-003</b>	<b>4.7700e-003</b>		<b>4.7700e-003</b>	<b>4.7700e-003</b>		<b>75.3112</b>	<b>75.3112</b>	<b>1.4400e-003</b>	<b>1.3800e-003</b>	<b>75.7587</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

**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					
Unrefrigerated Warehouse-No Rail	0.640145	6.9000e-003	0.0628	0.0527	3.8000e-004		4.7700e-003	4.7700e-003		4.7700e-003	4.7700e-003		75.3112	75.3112	1.4400e-003	1.3800e-003	75.7587
<b>Total</b>		<b>6.9000e-003</b>	<b>0.0628</b>	<b>0.0527</b>	<b>3.8000e-004</b>		<b>4.7700e-003</b>	<b>4.7700e-003</b>		<b>4.7700e-003</b>	<b>4.7700e-003</b>		<b>75.3112</b>	<b>75.3112</b>	<b>1.4400e-003</b>	<b>1.3800e-003</b>	<b>75.7587</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, 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					
Mitigated	2.4262	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0252	0.0252	7.0000e-005		0.0269
Unmitigated	2.5724	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0252	0.0252	7.0000e-005		0.0269

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	0.2923					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2790					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0900e-003	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0252	0.0252	7.0000e-005		0.0269
<b>Total</b>	<b>2.5724</b>	<b>1.1000e-004</b>	<b>0.0118</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0252</b>	<b>0.0252</b>	<b>7.0000e-005</b>		<b>0.0269</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

**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	0.1462					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2790					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0900e-003	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0252	0.0252	7.0000e-005		0.0269
<b>Total</b>	<b>2.4262</b>	<b>1.1000e-004</b>	<b>0.0118</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0252</b>	<b>0.0252</b>	<b>7.0000e-005</b>		<b>0.0269</b>

**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
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**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Summer

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

**Mango Avenue Industrial Warehouse**  
**San Bernardino-South Coast County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	115.10	1000sqft	2.64	115,100.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use -

Construction Phase - General schedule supplied by client

Off-road Equipment -

Off-road Equipment - Equipment list supplied by client

Off-road Equipment - Equipment list supplied by client

Off-road Equipment - Equipment list supplied by client

Off-road Equipment - Equipment list supplied by client

Grading - Site is 5.8 acres

Architectural Coating - Per SCAQMD Rule 1113

Vehicle Trips - Trip rate data from traffic engineer

Trip length data from travel distance to ports

Energy Use -

Area Mitigation - Per SCAQMD Rule 1113

Fleet Mix -

## Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstructionPhase	NumDays	220.00	165.00
tblGrading	AcresOfGrading	4.50	5.80
tblGrading	AcresOfGrading	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblVehicleTrips	CC_TL	8.40	70.00
tblVehicleTrips	ST_TR	1.68	2.28
tblVehicleTrips	SU_TR	1.68	2.28
tblVehicleTrips	WD_TR	1.68	2.28

## 2.0 Emissions Summary

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Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

**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	2.5724	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0252	0.0252	7.0000e-005		0.0269
Energy	6.9000e-003	0.0628	0.0527	3.8000e-004		4.7700e-003	4.7700e-003		4.7700e-003	4.7700e-003		75.3112	75.3112	1.4400e-003	1.3800e-003	75.7587
Mobile	0.5313	3.9844	6.9020	0.0293	2.3980	0.0212	2.4192	0.6417	0.0199	0.6616		2,989.4151	2,989.4151	0.1484		2,993.1256
<b>Total</b>	<b>3.1106</b>	<b>4.0473</b>	<b>6.9665</b>	<b>0.0297</b>	<b>2.3980</b>	<b>0.0261</b>	<b>2.4240</b>	<b>0.6417</b>	<b>0.0247</b>	<b>0.6664</b>		<b>3,064.7515</b>	<b>3,064.7515</b>	<b>0.1499</b>	<b>1.3800e-003</b>	<b>3,068.9112</b>

**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	2.4262	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0252	0.0252	7.0000e-005		0.0269
Energy	6.9000e-003	0.0628	0.0527	3.8000e-004		4.7700e-003	4.7700e-003		4.7700e-003	4.7700e-003		75.3112	75.3112	1.4400e-003	1.3800e-003	75.7587
Mobile	0.5313	3.9844	6.9020	0.0293	2.3980	0.0212	2.4192	0.6417	0.0199	0.6616		2,989.4151	2,989.4151	0.1484		2,993.1256
<b>Total</b>	<b>2.9644</b>	<b>4.0473</b>	<b>6.9665</b>	<b>0.0297</b>	<b>2.3980</b>	<b>0.0261</b>	<b>2.4240</b>	<b>0.6417</b>	<b>0.0247</b>	<b>0.6664</b>		<b>3,064.7515</b>	<b>3,064.7515</b>	<b>0.1499</b>	<b>1.3800e-003</b>	<b>3,068.9112</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, 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
Percent Reduction	4.70	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	Grading	Grading	11/1/2020	11/9/2020	5	6	
2	Site Preparation	Site Preparation	11/10/2020	11/12/2020	5	3	
3	Building Construction	Building Construction	11/13/2020	7/1/2021	5	165	
4	Utility Improvements	Trenching	7/2/2021	7/15/2021	5	10	
5	Architectural Coating	Architectural Coating	7/16/2021	7/29/2021	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 5.8

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 172,650; Non-Residential Outdoor: 57,550; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	6.00	158	0.38
Grading	Graders	0	0.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	6.00	203	0.36
Grading	Scrapers	1	6.00	367	0.48

## Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Site Preparation	Cement and Mortar Mixers	1	7.00	9	0.56
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Plate Compactors	1	6.00	8	0.43
Site Preparation	Scrapers	0	0.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Building Construction	Aerial Lifts	1	6.00	63	0.31
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	0	0.00	84	0.74
Building Construction	Graders	1	4.00	187	0.41
Building Construction	Plate Compactors	1	4.00	8	0.43
Building Construction	Rollers	1	6.00	80	0.38
Building Construction	Rubber Tired Loaders	1	6.00	203	0.36
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Utility Improvements	Cement and Mortar Mixers	0	0.00	9	0.56
Utility Improvements	Pavers	0	0.00	130	0.42
Utility Improvements	Paving Equipment	0	0.00	132	0.36
Utility Improvements	Rollers	0	0.00	80	0.38
Utility Improvements	Rubber Tired Loaders	1	6.00	203	0.36
Utility Improvements	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Utility Improvements	Trenchers	1	7.00	78	0.50
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

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
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	48.00	19.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Improvements	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 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					7.0472	0.0000	7.0472	3.4209	0.0000	3.4209			0.0000			0.0000
Off-Road	2.6551	28.9470	17.3925	0.0339		1.3292	1.3292		1.2228	1.2228		3,282.9075	3,282.9075	1.0618		3,309.4515
<b>Total</b>	<b>2.6551</b>	<b>28.9470</b>	<b>17.3925</b>	<b>0.0339</b>	<b>7.0472</b>	<b>1.3292</b>	<b>8.3764</b>	<b>3.4209</b>	<b>1.2228</b>	<b>4.6437</b>		<b>3,282.9075</b>	<b>3,282.9075</b>	<b>1.0618</b>		<b>3,309.4515</b>



Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

**3.2 Grading - 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	0.0819	0.0553	0.5544	1.5300e-003	0.1677	1.1000e-003	0.1688	0.0445	1.0100e-003	0.0455		152.0625	152.0625	4.5400e-003		152.1760
<b>Total</b>	<b>0.0819</b>	<b>0.0553</b>	<b>0.5544</b>	<b>1.5300e-003</b>	<b>0.1677</b>	<b>1.1000e-003</b>	<b>0.1688</b>	<b>0.0445</b>	<b>1.0100e-003</b>	<b>0.0455</b>		<b>152.0625</b>	<b>152.0625</b>	<b>4.5400e-003</b>		<b>152.1760</b>

**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					7.0472	0.0000	7.0472	3.4209	0.0000	3.4209			0.0000			0.0000
Off-Road	2.6551	28.9470	17.3925	0.0339		1.3292	1.3292		1.2228	1.2228	0.0000	3,282.9075	3,282.9075	1.0618		3,309.4515
<b>Total</b>	<b>2.6551</b>	<b>28.9470</b>	<b>17.3925</b>	<b>0.0339</b>	<b>7.0472</b>	<b>1.3292</b>	<b>8.3764</b>	<b>3.4209</b>	<b>1.2228</b>	<b>4.6437</b>	<b>0.0000</b>	<b>3,282.9075</b>	<b>3,282.9075</b>	<b>1.0618</b>		<b>3,309.4515</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

**3.2 Grading - 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	0.0819	0.0553	0.5544	1.5300e-003	0.1677	1.1000e-003	0.1688	0.0445	1.0100e-003	0.0455		152.0625	152.0625	4.5400e-003		152.1760
<b>Total</b>	<b>0.0819</b>	<b>0.0553</b>	<b>0.5544</b>	<b>1.5300e-003</b>	<b>0.1677</b>	<b>1.1000e-003</b>	<b>0.1688</b>	<b>0.0445</b>	<b>1.0100e-003</b>	<b>0.0455</b>		<b>152.0625</b>	<b>152.0625</b>	<b>4.5400e-003</b>		<b>152.1760</b>

**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					0.3535	0.0000	0.3535	0.0382	0.0000	0.0382			0.0000			0.0000
Off-Road	0.0815	0.5106	0.4277	9.9000e-004		0.0199	0.0199		0.0199	0.0199		70.0613	70.0613	7.2700e-003		70.2432
<b>Total</b>	<b>0.0815</b>	<b>0.5106</b>	<b>0.4277</b>	<b>9.9000e-004</b>	<b>0.3535</b>	<b>0.0199</b>	<b>0.3734</b>	<b>0.0382</b>	<b>0.0199</b>	<b>0.0580</b>		<b>70.0613</b>	<b>70.0613</b>	<b>7.2700e-003</b>		<b>70.2432</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

**3.3 Site Preparation - 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	0.0273	0.0184	0.1848	5.1000e-004	0.0559	3.7000e-004	0.0563	0.0148	3.4000e-004	0.0152		50.6875	50.6875	1.5100e-003		50.7253
<b>Total</b>	<b>0.0273</b>	<b>0.0184</b>	<b>0.1848</b>	<b>5.1000e-004</b>	<b>0.0559</b>	<b>3.7000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>3.4000e-004</b>	<b>0.0152</b>		<b>50.6875</b>	<b>50.6875</b>	<b>1.5100e-003</b>		<b>50.7253</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3535	0.0000	0.3535	0.0382	0.0000	0.0382			0.0000			0.0000
Off-Road	0.0815	0.5106	0.4277	9.9000e-004		0.0199	0.0199		0.0199	0.0199	0.0000	70.0613	70.0613	7.2700e-003		70.2432
<b>Total</b>	<b>0.0815</b>	<b>0.5106</b>	<b>0.4277</b>	<b>9.9000e-004</b>	<b>0.3535</b>	<b>0.0199</b>	<b>0.3734</b>	<b>0.0382</b>	<b>0.0199</b>	<b>0.0580</b>	<b>0.0000</b>	<b>70.0613</b>	<b>70.0613</b>	<b>7.2700e-003</b>		<b>70.2432</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

**3.3 Site Preparation - 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	0.0273	0.0184	0.1848	5.1000e-004	0.0559	3.7000e-004	0.0563	0.0148	3.4000e-004	0.0152		50.6875	50.6875	1.5100e-003		50.7253
<b>Total</b>	<b>0.0273</b>	<b>0.0184</b>	<b>0.1848</b>	<b>5.1000e-004</b>	<b>0.0559</b>	<b>3.7000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>3.4000e-004</b>	<b>0.0152</b>		<b>50.6875</b>	<b>50.6875</b>	<b>1.5100e-003</b>		<b>50.7253</b>

**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	2.6131	22.5942	15.6714	0.0299		1.0780	1.0780		1.0130	1.0130		2,770.8368	2,770.8368	0.7831		2,790.4132
<b>Total</b>	<b>2.6131</b>	<b>22.5942</b>	<b>15.6714</b>	<b>0.0299</b>		<b>1.0780</b>	<b>1.0780</b>		<b>1.0130</b>	<b>1.0130</b>		<b>2,770.8368</b>	<b>2,770.8368</b>	<b>0.7831</b>		<b>2,790.4132</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

**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	0.0608	1.9888	0.4529	4.9600e-003	0.1217	9.3400e-003	0.1310	0.0350	8.9400e-003	0.0440		522.5002	522.5002	0.0390		523.4762
Worker	0.2621	0.1769	1.7742	4.8900e-003	0.5365	3.5200e-003	0.5400	0.1423	3.2400e-003	0.1455		486.5999	486.5999	0.0145		486.9631
<b>Total</b>	<b>0.3230</b>	<b>2.1657</b>	<b>2.2271</b>	<b>9.8500e-003</b>	<b>0.6582</b>	<b>0.0129</b>	<b>0.6711</b>	<b>0.1773</b>	<b>0.0122</b>	<b>0.1895</b>		<b>1,009.1001</b>	<b>1,009.1001</b>	<b>0.0536</b>		<b>1,010.4392</b>

**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	2.6131	22.5942	15.6714	0.0299		1.0780	1.0780		1.0130	1.0130	0.0000	2,770.8368	2,770.8368	0.7831		2,790.4132
<b>Total</b>	<b>2.6131</b>	<b>22.5942</b>	<b>15.6714</b>	<b>0.0299</b>		<b>1.0780</b>	<b>1.0780</b>		<b>1.0130</b>	<b>1.0130</b>	<b>0.0000</b>	<b>2,770.8368</b>	<b>2,770.8368</b>	<b>0.7831</b>		<b>2,790.4132</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

**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	0.0608	1.9888	0.4529	4.9600e-003	0.1217	9.3400e-003	0.1310	0.0350	8.9400e-003	0.0440		522.5002	522.5002	0.0390		523.4762
Worker	0.2621	0.1769	1.7742	4.8900e-003	0.5365	3.5200e-003	0.5400	0.1423	3.2400e-003	0.1455		486.5999	486.5999	0.0145		486.9631
<b>Total</b>	<b>0.3230</b>	<b>2.1657</b>	<b>2.2271</b>	<b>9.8500e-003</b>	<b>0.6582</b>	<b>0.0129</b>	<b>0.6711</b>	<b>0.1773</b>	<b>0.0122</b>	<b>0.1895</b>		<b>1,009.1001</b>	<b>1,009.1001</b>	<b>0.0536</b>		<b>1,010.4392</b>

**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	2.3617	20.7408	15.2969	0.0299		0.9417	0.9417		0.8845	0.8845		2,770.4339	2,770.4339	0.7720		2,789.7332
<b>Total</b>	<b>2.3617</b>	<b>20.7408</b>	<b>15.2969</b>	<b>0.0299</b>		<b>0.9417</b>	<b>0.9417</b>		<b>0.8845</b>	<b>0.8845</b>		<b>2,770.4339</b>	<b>2,770.4339</b>	<b>0.7720</b>		<b>2,789.7332</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

**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	0.0522	1.8128	0.4033	4.9300e-003	0.1217	3.2300e-003	0.1249	0.0350	3.0900e-003	0.0381		519.7168	519.7168	0.0379		520.6636
Worker	0.2444	0.1586	1.6299	4.7300e-003	0.5365	3.4300e-003	0.5400	0.1423	3.1600e-003	0.1455		471.1189	471.1189	0.0131		471.4467
<b>Total</b>	<b>0.2966</b>	<b>1.9714</b>	<b>2.0332</b>	<b>9.6600e-003</b>	<b>0.6582</b>	<b>6.6600e-003</b>	<b>0.6649</b>	<b>0.1773</b>	<b>6.2500e-003</b>	<b>0.1836</b>		<b>990.8356</b>	<b>990.8356</b>	<b>0.0510</b>		<b>992.1104</b>

**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	2.3617	20.7408	15.2969	0.0299		0.9417	0.9417		0.8845	0.8845	0.0000	2,770.4339	2,770.4339	0.7720		2,789.7332
<b>Total</b>	<b>2.3617</b>	<b>20.7408</b>	<b>15.2969</b>	<b>0.0299</b>		<b>0.9417</b>	<b>0.9417</b>		<b>0.8845</b>	<b>0.8845</b>	<b>0.0000</b>	<b>2,770.4339</b>	<b>2,770.4339</b>	<b>0.7720</b>		<b>2,789.7332</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

**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	0.0522	1.8128	0.4033	4.9300e-003	0.1217	3.2300e-003	0.1249	0.0350	3.0900e-003	0.0381		519.7168	519.7168	0.0379		520.6636
Worker	0.2444	0.1586	1.6299	4.7300e-003	0.5365	3.4300e-003	0.5400	0.1423	3.1600e-003	0.1455		471.1189	471.1189	0.0131		471.4467
<b>Total</b>	<b>0.2966</b>	<b>1.9714</b>	<b>2.0332</b>	<b>9.6600e-003</b>	<b>0.6582</b>	<b>6.6600e-003</b>	<b>0.6649</b>	<b>0.1773</b>	<b>6.2500e-003</b>	<b>0.1836</b>		<b>990.8356</b>	<b>990.8356</b>	<b>0.0510</b>		<b>992.1104</b>

**3.5 Utility Improvements - 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	0.7792	7.8667	5.7398	0.0108		0.4315	0.4315		0.3970	0.3970		1,040.8769	1,040.8769	0.3366		1,049.2930
<b>Total</b>	<b>0.7792</b>	<b>7.8667</b>	<b>5.7398</b>	<b>0.0108</b>		<b>0.4315</b>	<b>0.4315</b>		<b>0.3970</b>	<b>0.3970</b>		<b>1,040.8769</b>	<b>1,040.8769</b>	<b>0.3366</b>		<b>1,049.2930</b>



Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

**3.5 Utility Improvements - 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	0.0407	0.0264	0.2717	7.9000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		78.5198	78.5198	2.1900e-003		78.5745
<b>Total</b>	<b>0.0407</b>	<b>0.0264</b>	<b>0.2717</b>	<b>7.9000e-004</b>	<b>0.0894</b>	<b>5.7000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.3000e-004</b>	<b>0.0242</b>		<b>78.5198</b>	<b>78.5198</b>	<b>2.1900e-003</b>		<b>78.5745</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7792	7.8667	5.7398	0.0108		0.4315	0.4315		0.3970	0.3970	0.0000	1,040.8769	1,040.8769	0.3366		1,049.2930
<b>Total</b>	<b>0.7792</b>	<b>7.8667</b>	<b>5.7398</b>	<b>0.0108</b>		<b>0.4315</b>	<b>0.4315</b>		<b>0.3970</b>	<b>0.3970</b>	<b>0.0000</b>	<b>1,040.8769</b>	<b>1,040.8769</b>	<b>0.3366</b>		<b>1,049.2930</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

**3.5 Utility Improvements - 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	0.0407	0.0264	0.2717	7.9000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		78.5198	78.5198	2.1900e-003		78.5745
<b>Total</b>	<b>0.0407</b>	<b>0.0264</b>	<b>0.2717</b>	<b>7.9000e-004</b>	<b>0.0894</b>	<b>5.7000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.3000e-004</b>	<b>0.0242</b>		<b>78.5198</b>	<b>78.5198</b>	<b>2.1900e-003</b>		<b>78.5745</b>

**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	53.3489					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
<b>Total</b>	<b>53.5678</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

**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	0.0509	0.0330	0.3396	9.9000e-004	0.1118	7.1000e-004	0.1125	0.0296	6.6000e-004	0.0303		98.1498	98.1498	2.7300e-003		98.2181
<b>Total</b>	<b>0.0509</b>	<b>0.0330</b>	<b>0.3396</b>	<b>9.9000e-004</b>	<b>0.1118</b>	<b>7.1000e-004</b>	<b>0.1125</b>	<b>0.0296</b>	<b>6.6000e-004</b>	<b>0.0303</b>		<b>98.1498</b>	<b>98.1498</b>	<b>2.7300e-003</b>		<b>98.2181</b>

**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	53.3489					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
<b>Total</b>	<b>53.5678</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

**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	0.0509	0.0330	0.3396	9.9000e-004	0.1118	7.1000e-004	0.1125	0.0296	6.6000e-004	0.0303		98.1498	98.1498	2.7300e-003		98.2181
<b>Total</b>	<b>0.0509</b>	<b>0.0330</b>	<b>0.3396</b>	<b>9.9000e-004</b>	<b>0.1118</b>	<b>7.1000e-004</b>	<b>0.1125</b>	<b>0.0296</b>	<b>6.6000e-004</b>	<b>0.0303</b>		<b>98.1498</b>	<b>98.1498</b>	<b>2.7300e-003</b>		<b>98.2181</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, 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					
Mitigated	0.5313	3.9844	6.9020	0.0293	2.3980	0.0212	2.4192	0.6417	0.0199	0.6616		2,989.415 1	2,989.415 1	0.1484		2,993.125 6
Unmitigated	0.5313	3.9844	6.9020	0.0293	2.3980	0.0212	2.4192	0.6417	0.0199	0.6616		2,989.415 1	2,989.415 1	0.1484		2,993.125 6

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	262.43	262.43	262.43	1,124,692	1,124,692
Total	262.43	262.43	262.43	1,124,692	1,124,692

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	16.60	70.00	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

5.0 Energy Detail

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

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	6.9000e-003	0.0628	0.0527	3.8000e-004		4.7700e-003	4.7700e-003		4.7700e-003	4.7700e-003		75.3112	75.3112	1.4400e-003	1.3800e-003	75.7587
NaturalGas Unmitigated	6.9000e-003	0.0628	0.0527	3.8000e-004		4.7700e-003	4.7700e-003		4.7700e-003	4.7700e-003		75.3112	75.3112	1.4400e-003	1.3800e-003	75.7587

**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					
Unrefrigerated Warehouse-No Rail	640.145	6.9000e-003	0.0628	0.0527	3.8000e-004		4.7700e-003	4.7700e-003		4.7700e-003	4.7700e-003		75.3112	75.3112	1.4400e-003	1.3800e-003	75.7587
<b>Total</b>		<b>6.9000e-003</b>	<b>0.0628</b>	<b>0.0527</b>	<b>3.8000e-004</b>		<b>4.7700e-003</b>	<b>4.7700e-003</b>		<b>4.7700e-003</b>	<b>4.7700e-003</b>		<b>75.3112</b>	<b>75.3112</b>	<b>1.4400e-003</b>	<b>1.3800e-003</b>	<b>75.7587</b>

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

**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					
Unrefrigerated Warehouse-No Rail	0.640145	6.9000e-003	0.0628	0.0527	3.8000e-004		4.7700e-003	4.7700e-003		4.7700e-003	4.7700e-003		75.3112	75.3112	1.4400e-003	1.3800e-003	75.7587
<b>Total</b>		<b>6.9000e-003</b>	<b>0.0628</b>	<b>0.0527</b>	<b>3.8000e-004</b>		<b>4.7700e-003</b>	<b>4.7700e-003</b>		<b>4.7700e-003</b>	<b>4.7700e-003</b>		<b>75.3112</b>	<b>75.3112</b>	<b>1.4400e-003</b>	<b>1.3800e-003</b>	<b>75.7587</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, 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					
Mitigated	2.4262	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0252	0.0252	7.0000e-005		0.0269
Unmitigated	2.5724	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0252	0.0252	7.0000e-005		0.0269

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	0.2923					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2790					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0900e-003	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0252	0.0252	7.0000e-005		0.0269
<b>Total</b>	<b>2.5724</b>	<b>1.1000e-004</b>	<b>0.0118</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0252</b>	<b>0.0252</b>	<b>7.0000e-005</b>		<b>0.0269</b>



Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

**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	0.1462					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2790					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0900e-003	1.1000e-004	0.0118	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0252	0.0252	7.0000e-005		0.0269
<b>Total</b>	<b>2.4262</b>	<b>1.1000e-004</b>	<b>0.0118</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0252</b>	<b>0.0252</b>	<b>7.0000e-005</b>		<b>0.0269</b>

**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
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Winter

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Annual

**Mango Avenue Industrial Warehouse**  
**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	115.10	1000sqft	2.64	115,100.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Annual

Project Characteristics -

Land Use -

Construction Phase - General schedule supplied by client

Off-road Equipment -

Off-road Equipment - Equipment list supplied by client

Off-road Equipment - Equipment list supplied by client

Off-road Equipment - Equipment list supplied by client

Off-road Equipment - Equipment list supplied by client

Grading - Site is 5.8 acres

Architectural Coating - Per SCAQMD Rule 1113

Vehicle Trips - Trip rate data from traffic engineer

Trip length data from travel distance to ports

Energy Use -

Area Mitigation - Per SCAQMD Rule 1113

Fleet Mix -

## Mango Avenue Industrial Warehouse - San Bernardino-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstructionPhase	NumDays	220.00	165.00
tblGrading	AcresOfGrading	4.50	5.80
tblGrading	AcresOfGrading	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblVehicleTrips	CC_TL	8.40	70.00
tblVehicleTrips	ST_TR	1.68	2.28
tblVehicleTrips	SU_TR	1.68	2.28
tblVehicleTrips	WD_TR	1.68	2.28

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-1-2020	1-31-2021	0.8683	0.8683
2	2-1-2021	4-30-2021	0.8065	0.8065
3	5-1-2021	7-31-2021	0.8814	0.8814
		Highest	0.8814	0.8814

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	0.4694	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8600e-003	2.8600e-003	1.0000e-005	0.0000	3.0400e-003
Energy	1.2600e-003	0.0115	9.6200e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	99.0177	99.0177	3.8100e-003	9.7000e-004	99.4014
Mobile	0.0949	0.7421	1.3000	5.4300e-003	0.4283	3.8500e-003	0.4321	0.1148	3.6000e-003	0.1184	0.0000	503.0678	503.0678	0.0241	0.0000	503.6706
Waste						0.0000	0.0000		0.0000	0.0000	21.9616	0.0000	21.9616	1.2979	0.0000	54.4089
Water						0.0000	0.0000		0.0000	0.0000	8.4443	110.4273	118.8716	0.8719	0.0214	147.0522
<b>Total</b>	<b>0.5656</b>	<b>0.7535</b>	<b>1.3111</b>	<b>5.5000e-003</b>	<b>0.4283</b>	<b>4.7300e-003</b>	<b>0.4330</b>	<b>0.1148</b>	<b>4.4800e-003</b>	<b>0.1193</b>	<b>30.4059</b>	<b>712.5156</b>	<b>742.9215</b>	<b>2.1977</b>	<b>0.0224</b>	<b>804.5362</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4427	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8600e-003	2.8600e-003	1.0000e-005	0.0000	3.0400e-003
Energy	1.2600e-003	0.0115	9.6200e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	99.0177	99.0177	3.8100e-003	9.7000e-004	99.4014
Mobile	0.0949	0.7421	1.3000	5.4300e-003	0.4283	3.8500e-003	0.4321	0.1148	3.6000e-003	0.1184	0.0000	503.0678	503.0678	0.0241	0.0000	503.6706
Waste						0.0000	0.0000		0.0000	0.0000	21.9616	0.0000	21.9616	1.2979	0.0000	54.4089
Water						0.0000	0.0000		0.0000	0.0000	8.4443	110.4273	118.8716	0.8719	0.0214	147.0522
<b>Total</b>	<b>0.5389</b>	<b>0.7535</b>	<b>1.3111</b>	<b>5.5000e-003</b>	<b>0.4283</b>	<b>4.7300e-003</b>	<b>0.4330</b>	<b>0.1148</b>	<b>4.4800e-003</b>	<b>0.1193</b>	<b>30.4059</b>	<b>712.5156</b>	<b>742.9215</b>	<b>2.1977</b>	<b>0.0224</b>	<b>804.5362</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	4.72	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**



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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/1/2020	11/9/2020	5	6	
2	Site Preparation	Site Preparation	11/10/2020	11/12/2020	5	3	
3	Building Construction	Building Construction	11/13/2020	7/1/2021	5	165	
4	Utility Improvements	Trenching	7/2/2021	7/15/2021	5	10	
5	Architectural Coating	Architectural Coating	7/16/2021	7/29/2021	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 5.8

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 172,650; Non-Residential Outdoor: 57,550; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	6.00	158	0.38
Grading	Graders	0	0.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	6.00	203	0.36
Grading	Scrapers	1	6.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Site Preparation	Cement and Mortar Mixers	1	7.00	9	0.56
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Plate Compactors	1	6.00	8	0.43
Site Preparation	Scrapers	0	0.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

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Building Construction	Aerial Lifts	1	6.00	63	0.31
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	0	0.00	84	0.74
Building Construction	Graders	1	4.00	187	0.41
Building Construction	Plate Compactors	1	4.00	8	0.43
Building Construction	Rollers	1	6.00	80	0.38
Building Construction	Rubber Tired Loaders	1	6.00	203	0.36
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Utility Improvements	Cement and Mortar Mixers	0	0.00	9	0.56
Utility Improvements	Pavers	0	0.00	130	0.42
Utility Improvements	Paving Equipment	0	0.00	132	0.36
Utility Improvements	Rollers	0	0.00	80	0.38
Utility Improvements	Rubber Tired Loaders	1	6.00	203	0.36
Utility Improvements	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Utility Improvements	Trenchers	1	7.00	78	0.50
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
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	48.00	19.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Improvements	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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**3.1 Mitigation Measures Construction**

**3.2 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	tons/yr										MT/yr					
Fugitive Dust					0.0211	0.0000	0.0211	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9700e-003	0.0868	0.0522	1.0000e-004		3.9900e-003	3.9900e-003		3.6700e-003	3.6700e-003	0.0000	8.9346	8.9346	2.8900e-003	0.0000	9.0069
<b>Total</b>	<b>7.9700e-003</b>	<b>0.0868</b>	<b>0.0522</b>	<b>1.0000e-004</b>	<b>0.0211</b>	<b>3.9900e-003</b>	<b>0.0251</b>	<b>0.0103</b>	<b>3.6700e-003</b>	<b>0.0139</b>	<b>0.0000</b>	<b>8.9346</b>	<b>8.9346</b>	<b>2.8900e-003</b>	<b>0.0000</b>	<b>9.0069</b>

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**3.2 Grading - 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	2.2000e-004	1.7000e-004	1.7500e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4229	0.4229	1.0000e-005	0.0000	0.4232
<b>Total</b>	<b>2.2000e-004</b>	<b>1.7000e-004</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4229</b>	<b>0.4229</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4232</b>

**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					0.0211	0.0000	0.0211	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9700e-003	0.0868	0.0522	1.0000e-004		3.9900e-003	3.9900e-003		3.6700e-003	3.6700e-003	0.0000	8.9346	8.9346	2.8900e-003	0.0000	9.0068
<b>Total</b>	<b>7.9700e-003</b>	<b>0.0868</b>	<b>0.0522</b>	<b>1.0000e-004</b>	<b>0.0211</b>	<b>3.9900e-003</b>	<b>0.0251</b>	<b>0.0103</b>	<b>3.6700e-003</b>	<b>0.0139</b>	<b>0.0000</b>	<b>8.9346</b>	<b>8.9346</b>	<b>2.8900e-003</b>	<b>0.0000</b>	<b>9.0068</b>

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**3.2 Grading - 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	2.2000e-004	1.7000e-004	1.7500e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4229	0.4229	1.0000e-005	0.0000	0.4232
<b>Total</b>	<b>2.2000e-004</b>	<b>1.7000e-004</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4229</b>	<b>0.4229</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4232</b>

**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	tons/yr										MT/yr					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2000e-004	7.7000e-004	6.4000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0953	0.0953	1.0000e-005	0.0000	0.0956
<b>Total</b>	<b>1.2000e-004</b>	<b>7.7000e-004</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>5.3000e-004</b>	<b>3.0000e-005</b>	<b>5.6000e-004</b>	<b>6.0000e-005</b>	<b>3.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.0953</b>	<b>0.0953</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0956</b>

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**3.3 Site Preparation - 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	4.0000e-005	3.0000e-005	2.9000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0705	0.0705	0.0000	0.0000	0.0705
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0705</b>	<b>0.0705</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0705</b>

**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					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2000e-004	7.7000e-004	6.4000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0953	0.0953	1.0000e-005	0.0000	0.0956
<b>Total</b>	<b>1.2000e-004</b>	<b>7.7000e-004</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>5.3000e-004</b>	<b>3.0000e-005</b>	<b>5.6000e-004</b>	<b>6.0000e-005</b>	<b>3.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.0953</b>	<b>0.0953</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0956</b>

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**3.3 Site Preparation - 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	4.0000e-005	3.0000e-005	2.9000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0705	0.0705	0.0000	0.0000	0.0705
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0705</b>	<b>0.0705</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0705</b>

**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	0.0457	0.3954	0.2743	5.2000e-004		0.0189	0.0189		0.0177	0.0177	0.0000	43.9891	43.9891	0.0124	0.0000	44.2999
<b>Total</b>	<b>0.0457</b>	<b>0.3954</b>	<b>0.2743</b>	<b>5.2000e-004</b>		<b>0.0189</b>	<b>0.0189</b>		<b>0.0177</b>	<b>0.0177</b>	<b>0.0000</b>	<b>43.9891</b>	<b>43.9891</b>	<b>0.0124</b>	<b>0.0000</b>	<b>44.2999</b>

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**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	1.0300e-003	0.0355	7.4200e-003	9.0000e-005	2.1000e-003	1.6000e-004	2.2600e-003	6.1000e-004	1.6000e-004	7.6000e-004	0.0000	8.4893	8.4893	5.9000e-004	0.0000	8.5040
Worker	4.1500e-003	3.2600e-003	0.0326	9.0000e-005	9.2100e-003	6.0000e-005	9.2700e-003	2.4500e-003	6.0000e-005	2.5000e-003	0.0000	7.8945	7.8945	2.4000e-004	0.0000	7.9004
<b>Total</b>	<b>5.1800e-003</b>	<b>0.0388</b>	<b>0.0400</b>	<b>1.8000e-004</b>	<b>0.0113</b>	<b>2.2000e-004</b>	<b>0.0115</b>	<b>3.0600e-003</b>	<b>2.2000e-004</b>	<b>3.2600e-003</b>	<b>0.0000</b>	<b>16.3838</b>	<b>16.3838</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>16.4044</b>

**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	0.0457	0.3954	0.2743	5.2000e-004		0.0189	0.0189		0.0177	0.0177	0.0000	43.9890	43.9890	0.0124	0.0000	44.2998
<b>Total</b>	<b>0.0457</b>	<b>0.3954</b>	<b>0.2743</b>	<b>5.2000e-004</b>		<b>0.0189</b>	<b>0.0189</b>		<b>0.0177</b>	<b>0.0177</b>	<b>0.0000</b>	<b>43.9890</b>	<b>43.9890</b>	<b>0.0124</b>	<b>0.0000</b>	<b>44.2998</b>



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**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	1.0300e-003	0.0355	7.4200e-003	9.0000e-005	2.1000e-003	1.6000e-004	2.2600e-003	6.1000e-004	1.6000e-004	7.6000e-004	0.0000	8.4893	8.4893	5.9000e-004	0.0000	8.5040
Worker	4.1500e-003	3.2600e-003	0.0326	9.0000e-005	9.2100e-003	6.0000e-005	9.2700e-003	2.4500e-003	6.0000e-005	2.5000e-003	0.0000	7.8945	7.8945	2.4000e-004	0.0000	7.9004
<b>Total</b>	<b>5.1800e-003</b>	<b>0.0388</b>	<b>0.0400</b>	<b>1.8000e-004</b>	<b>0.0113</b>	<b>2.2000e-004</b>	<b>0.0115</b>	<b>3.0600e-003</b>	<b>2.2000e-004</b>	<b>3.2600e-003</b>	<b>0.0000</b>	<b>16.3838</b>	<b>16.3838</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>16.4044</b>

**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	0.1535	1.3482	0.9943	1.9400e-003		0.0612	0.0612		0.0575	0.0575	0.0000	163.3642	163.3642	0.0455	0.0000	164.5022
<b>Total</b>	<b>0.1535</b>	<b>1.3482</b>	<b>0.9943</b>	<b>1.9400e-003</b>		<b>0.0612</b>	<b>0.0612</b>		<b>0.0575</b>	<b>0.0575</b>	<b>0.0000</b>	<b>163.3642</b>	<b>163.3642</b>	<b>0.0455</b>	<b>0.0000</b>	<b>164.5022</b>

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**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	3.2700e-003	0.1202	0.0245	3.3000e-004	7.7900e-003	2.1000e-004	7.9900e-003	2.2500e-003	2.0000e-004	2.4400e-003	0.0000	31.3645	31.3645	2.1100e-003	0.0000	31.4173
Worker	0.0144	0.0109	0.1112	3.1000e-004	0.0342	2.2000e-004	0.0344	9.0900e-003	2.1000e-004	9.2900e-003	0.0000	28.3889	28.3889	7.9000e-004	0.0000	28.4088
<b>Total</b>	<b>0.0176</b>	<b>0.1310</b>	<b>0.1356</b>	<b>6.4000e-004</b>	<b>0.0420</b>	<b>4.3000e-004</b>	<b>0.0424</b>	<b>0.0113</b>	<b>4.1000e-004</b>	<b>0.0117</b>	<b>0.0000</b>	<b>59.7534</b>	<b>59.7534</b>	<b>2.9000e-003</b>	<b>0.0000</b>	<b>59.8261</b>

**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	0.1535	1.3482	0.9943	1.9400e-003		0.0612	0.0612		0.0575	0.0575	0.0000	163.3640	163.3640	0.0455	0.0000	164.5020
<b>Total</b>	<b>0.1535</b>	<b>1.3482</b>	<b>0.9943</b>	<b>1.9400e-003</b>		<b>0.0612</b>	<b>0.0612</b>		<b>0.0575</b>	<b>0.0575</b>	<b>0.0000</b>	<b>163.3640</b>	<b>163.3640</b>	<b>0.0455</b>	<b>0.0000</b>	<b>164.5020</b>

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**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	3.2700e-003	0.1202	0.0245	3.3000e-004	7.7900e-003	2.1000e-004	7.9900e-003	2.2500e-003	2.0000e-004	2.4400e-003	0.0000	31.3645	31.3645	2.1100e-003	0.0000	31.4173
Worker	0.0144	0.0109	0.1112	3.1000e-004	0.0342	2.2000e-004	0.0344	9.0900e-003	2.1000e-004	9.2900e-003	0.0000	28.3889	28.3889	7.9000e-004	0.0000	28.4088
<b>Total</b>	<b>0.0176</b>	<b>0.1310</b>	<b>0.1356</b>	<b>6.4000e-004</b>	<b>0.0420</b>	<b>4.3000e-004</b>	<b>0.0424</b>	<b>0.0113</b>	<b>4.1000e-004</b>	<b>0.0117</b>	<b>0.0000</b>	<b>59.7534</b>	<b>59.7534</b>	<b>2.9000e-003</b>	<b>0.0000</b>	<b>59.8261</b>

**3.5 Utility Improvements - 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	3.9000e-003	0.0393	0.0287	5.0000e-005		2.1600e-003	2.1600e-003		1.9900e-003	1.9900e-003	0.0000	4.7213	4.7213	1.5300e-003	0.0000	4.7595
<b>Total</b>	<b>3.9000e-003</b>	<b>0.0393</b>	<b>0.0287</b>	<b>5.0000e-005</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>		<b>1.9900e-003</b>	<b>1.9900e-003</b>	<b>0.0000</b>	<b>4.7213</b>	<b>4.7213</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>4.7595</b>

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**3.5 Utility Improvements - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.4000e-004	1.4300e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3640	0.3640	1.0000e-005	0.0000	0.3642
<b>Total</b>	<b>1.8000e-004</b>	<b>1.4000e-004</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.3640</b>	<b>0.3640</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3642</b>

**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	3.9000e-003	0.0393	0.0287	5.0000e-005		2.1600e-003	2.1600e-003		1.9900e-003	1.9900e-003	0.0000	4.7213	4.7213	1.5300e-003	0.0000	4.7595
<b>Total</b>	<b>3.9000e-003</b>	<b>0.0393</b>	<b>0.0287</b>	<b>5.0000e-005</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>		<b>1.9900e-003</b>	<b>1.9900e-003</b>	<b>0.0000</b>	<b>4.7213</b>	<b>4.7213</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>4.7595</b>

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**3.5 Utility Improvements - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.4000e-004	1.4300e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3640	0.3640	1.0000e-005	0.0000	0.3642
<b>Total</b>	<b>1.8000e-004</b>	<b>1.4000e-004</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.3640</b>	<b>0.3640</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3642</b>

**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	0.2667					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
<b>Total</b>	<b>0.2678</b>	<b>7.6300e-003</b>	<b>9.0900e-003</b>	<b>1.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.2788</b>

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**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	2.3000e-004	1.7000e-004	1.7800e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4550	0.4550	1.0000e-005	0.0000	0.4553
<b>Total</b>	<b>2.3000e-004</b>	<b>1.7000e-004</b>	<b>1.7800e-003</b>	<b>1.0000e-005</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4550</b>	<b>0.4550</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4553</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2667					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
<b>Total</b>	<b>0.2678</b>	<b>7.6300e-003</b>	<b>9.0900e-003</b>	<b>1.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.2788</b>

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**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	2.3000e-004	1.7000e-004	1.7800e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4550	0.4550	1.0000e-005	0.0000	0.4553
<b>Total</b>	<b>2.3000e-004</b>	<b>1.7000e-004</b>	<b>1.7800e-003</b>	<b>1.0000e-005</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4550</b>	<b>0.4550</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4553</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0949	0.7421	1.3000	5.4300e-003	0.4283	3.8500e-003	0.4321	0.1148	3.6000e-003	0.1184	0.0000	503.0678	503.0678	0.0241	0.0000	503.6706
Unmitigated	0.0949	0.7421	1.3000	5.4300e-003	0.4283	3.8500e-003	0.4321	0.1148	3.6000e-003	0.1184	0.0000	503.0678	503.0678	0.0241	0.0000	503.6706

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	262.43	262.43	262.43	1,124,692	1,124,692
Total	262.43	262.43	262.43	1,124,692	1,124,692

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	16.60	70.00	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

5.0 Energy Detail



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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	86.5491	86.5491	3.5700e-003	7.4000e-004	86.8587
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	86.5491	86.5491	3.5700e-003	7.4000e-004	86.8587
NaturalGas Mitigated	1.2600e-003	0.0115	9.6200e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4686	12.4686	2.4000e-004	2.3000e-004	12.5427
NaturalGas Unmitigated	1.2600e-003	0.0115	9.6200e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4686	12.4686	2.4000e-004	2.3000e-004	12.5427

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	233653	1.2600e-003	0.0115	9.6200e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4686	12.4686	2.4000e-004	2.3000e-004	12.5427
<b>Total</b>		<b>1.2600e-003</b>	<b>0.0115</b>	<b>9.6200e-003</b>	<b>7.0000e-005</b>		<b>8.7000e-004</b>	<b>8.7000e-004</b>		<b>8.7000e-004</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>12.4686</b>	<b>12.4686</b>	<b>2.4000e-004</b>	<b>2.3000e-004</b>	<b>12.5427</b>

**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					
Unrefrigerated Warehouse-No Rail	233653	1.2600e-003	0.0115	9.6200e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4686	12.4686	2.4000e-004	2.3000e-004	12.5427
<b>Total</b>		<b>1.2600e-003</b>	<b>0.0115</b>	<b>9.6200e-003</b>	<b>7.0000e-005</b>		<b>8.7000e-004</b>	<b>8.7000e-004</b>		<b>8.7000e-004</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>12.4686</b>	<b>12.4686</b>	<b>2.4000e-004</b>	<b>2.3000e-004</b>	<b>12.5427</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	271636	86.5491	3.5700e-003	7.4000e-004	86.8587
<b>Total</b>		<b>86.5491</b>	<b>3.5700e-003</b>	<b>7.4000e-004</b>	<b>86.8587</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	271636	86.5491	3.5700e-003	7.4000e-004	86.8587
<b>Total</b>		<b>86.5491</b>	<b>3.5700e-003</b>	<b>7.4000e-004</b>	<b>86.8587</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4427	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8600e-003	2.8600e-003	1.0000e-005	0.0000	3.0400e-003
Unmitigated	0.4694	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8600e-003	2.8600e-003	1.0000e-005	0.0000	3.0400e-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	0.0534					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4159					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e-004	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8600e-003	2.8600e-003	1.0000e-005	0.0000	3.0400e-003
<b>Total</b>	<b>0.4694</b>	<b>1.0000e-005</b>	<b>1.4700e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.8600e-003</b>	<b>2.8600e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.0400e-003</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0267					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4159					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e-004	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8600e-003	2.8600e-003	1.0000e-005	0.0000	3.0400e-003
<b>Total</b>	<b>0.4427</b>	<b>1.0000e-005</b>	<b>1.4700e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.8600e-003</b>	<b>2.8600e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.0400e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	118.8716	0.8719	0.0214	147.0522
Unmitigated	118.8716	0.8719	0.0214	147.0522

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	26.6169 / 0	118.8716	0.8719	0.0214	147.0522
<b>Total</b>		<b>118.8716</b>	<b>0.8719</b>	<b>0.0214</b>	<b>147.0522</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	26.6169 / 0	118.8716	0.8719	0.0214	147.0522
<b>Total</b>		<b>118.8716</b>	<b>0.8719</b>	<b>0.0214</b>	<b>147.0522</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	21.9616	1.2979	0.0000	54.4089
Unmitigated	21.9616	1.2979	0.0000	54.4089

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	108.19	21.9616	1.2979	0.0000	54.4089
<b>Total</b>		<b>21.9616</b>	<b>1.2979</b>	<b>0.0000</b>	<b>54.4089</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	108.19	21.9616	1.2979	0.0000	54.4089
<b>Total</b>		<b>21.9616</b>	<b>1.2979</b>	<b>0.0000</b>	<b>54.4089</b>

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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