ALBERT A. WEBB ASSOCIATES

Technical Memorandum

To: Michael Goodwin, First Industrial Realty Trust

From: Eliza Laws, Senior Environmental Analyst
Noemi Avila, Assistant Environmental Analyst

Date: July 30, 2020

Re: Air Quality/Greenhouse Gas Analysis for the First Industrial Warehouse at Rider Street Project (DPR No. 19-00016), City of Perris

The following air quality assessment was prepared to evaluate whether the expected criteria air pollutant emissions generated as a result of construction and operation of the proposed Project would cause exceedances of the South Coast Air Quality Management District's (SCAQMD) thresholds for air quality in the Project area. The greenhouse gas (GHG) assessment was prepared to evaluate whether the expected criteria GHG emissions generated as a result of construction and operation of the proposed Project would exceed the SCAQMD draft screening significance thresholds. This assessment was conducted within the context of the California Environmental Quality Act (CEQA, California Public Resources Code Sections 21000 et seq.). The methodology follows the *CEQA Air Quality Handbook* prepared by the SCAQMD for quantification of emissions and evaluation of potential impacts to air resources. As recommended by SCAQMD staff, the **Cal**ifornia **E**missions **E**stimator **Mod**el® version 2016.3.2 (CalEEMod) was used to quantify Project-related emissions.

The Project proposes development of an approximate 324,147.00 square foot (SF), non-refrigerated warehouse building that includes 8,000 SF office and 4,000 SF mezzanine, on approximately 16.25 gross acres on the southeast corner of Rider Street and Redlands Avenue, in the City of Perris, California. The Project is located within the Perris Valley Commerce Center Specific Plan, adopted in 2012. The Project will connect to existing pipelines within Rider Street and Redlands Avenue for water, sewer, and storm drain facilities. Recycled water pipeline will be installed within the frontage of Rider Street and Redlands Avenue connecting to pipelines being constructed by other developments. The Project will also construct roadway improvements along the Project's frontage of Redlands Avenue and Rider Street. The total off-site disturbance is approximately 2.84 acres.

Regional Significance Thresholds

The thresholds contained in the *SCAQMD CEQA Air Quality Handbook*[1] (SCAQMD 1993) and posted in a supplemental table as mass daily thresholds on SCAQMD's website[2] are considered regional thresholds and are shown in **Table 1 – SCAQMD CEQA Daily Regional Significance Thresholds**, below. These regional thresholds were developed based on the SCAQMD's treatment of a major stationary source.

Table 1 – SCAQMD CEQA Daily Regional Significance Thresholds

Emission Threshold	Units	VOC	NO_X	CO	SO_X	PM-10	PM-2.5
Construction	lbs/day	75	100	550	150	150	55
Operation	lbs/day	55	55	550	150	150	55

Air quality impacts can be described in a short- and long-term perspective. Short-term impacts occur during site grading and Project construction and consist of fugitive dust and other particulate matter, as well as exhaust emissions generated by construction-related vehicles. Long-term air quality impacts occur once the Project is in operation.

The Project will be required to comply with existing SCAQMD rules for the reduction of fugitive dust emissions. SCAQMD Rule 403 establishes these procedures. Compliance with this rule is achieved through application of standard best management practices in construction and operation activities, such as application of water or chemical stabilizers to disturbed soils, managing haul road dust by application of water, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 mph, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph and establishing a permanent, stabilizing ground cover on finished sites. In addition, projects that disturb 50 or more acres or more of soil or move 5,000 cubic yards of materials per day are required to submit a Fugitive Dust Control Plan or a Large Operation Notification Form to SCAQMD. Based on the size of this Project's disturbance area (17.69 acres), a Fugitive Dust Control Plan or a Large Operation Notification Form would not be required.

Short-Term Analysis

Short-term emissions from Project construction were evaluated using the CalEEMod version 2016.3.2 program. The estimated construction period for the proposed Project is approximately one year, beginning no sooner than September 2021. The default parameters within CalEEMod were used and these default values reflect a worst-case scenario, which means that Project emissions are expected to be equal to or less than the estimated emissions. In addition to the default values used, assumptions relevant to model inputs for short-term construction emission estimates used are:

- Construction is anticipated to begin in September 2021 with demolition and end with architectural coatings (painting):

[1] South Coast Air Quality Management District, *CEQA Air Quality Handbook*, November 1993. (Available at SCAQMD.)

[2] http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2

Construction Activity	Start Date	End Date	Total Working Days
Demolition	September 01, 2021	September 28, 2021	20 Days
Site Preparation	September 29, 2021	October 26, 2021	20 Days
Grading	October 27, 2021	December 07, 2021	30 Days
Building Construction	December 08, 2021	September 08, 2022	197 Days
Paving	August 12, 2022	September 08, 2022	20 Days
Architectural Coatings	August 12, 2022	September 08, 2022	20 Days

- The equipment to be used for each activity is shown below and is based on engineering estimates and the Applicant. Each piece of equipment is assumed to operate 8 hours per day:

Construction Activity	Off-Road Equipment	Unit Amount
Demolition	Concrete/Industrial Saws	1
	Forklifts	3
	Generator Sets	1
	Tractors/Loaders/Backhoes	3
	Welder	1
Site Preparation	Rubber Tired Dozers	3
	Tractors/Loaders/Backhoes	4
Grading	Excavators	2
	Graders	1
	Rubber Tired Dozers	1
	Scrapers	2
	Tractors/Loaders/Backhoes	2
Building Construction	Crane	1
	Forklifts	3
	Generator Set	1
	Tractor/Loader/Backhoe	3
	Welder	1
Paving	Paver	1
	Paving Equipment	1
	Rollers	1
Architectural Coatings	Air Compressors	1

- To evaluate Project compliance with SCAQMD Rule 403 for fugitive dust control, the Project utilized the mitigation option of watering the Project site three times daily which achieves a control efficiency of 61 percent for PM-10 and PM-2.5 emissions. Two (2) one-way vendor trips per day were added to the demolition, site preparation, grading and paving activities to account for water truck trips.

- Vendor trips from concrete trucks utilized during building construction were based on CalEEMod defaults.

- The Project site will balance; no soil import or export is required.

- Off-site infrastructure improvements will also be required for potable water, recycled water, sewer and storm drain connections as well as roadway improvements to Rider Street and Redlands Avenue along the Project frontage. The off-site pipeline improvements are within the footprint of the Project's roadway improvements. The off-site improvements will disturb approximately 2.84 acres.

The results of this analysis are summarized below.

Table 2 – Unmitigated Estimated Maximum Daily Construction Emissions

Activity	Peak Daily Emissions (lb/day)					
	VOC	NO_X	CO	SO_2	PM-10	PM-2.5
SCAQMD Daily Construction Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Demolition-2021	2.12	17.82	20.33	0.03	1.57	1.08
Site Preparation-2021	3.98	40.73	21.85	0.04	**9.31**	**5.81**
Grading-2021	4.29	**46.64**	31.66	0.06	5.61	3.29
Building Construction-2021	3.85	31.28	31.73	0.10	5.50	2.20
Building Construction-2022	**3.53**	28.56	**30.42**	**0.09**	5.33	2.04
Paving-2022	**0.85**	5.76	**7.59**	**0.01**	0.39	0.29
Architectural Coatings-2022	**157.01**	2.04	**4.63**	**0.01**	0.84	0.31
Maximum[1]	**161.39**	**46.64**	**42.64**	**0.11**	**9.31**	**5.81**
Exceeds Threshold?	**Yes**	**No**	**No**	**No**	**No**	**No**

Note: [1] Maximum emissions are the greater of either demolition, site preparation, grading or building construction alone in 2021, or the sum of building construction, paving and architectural coating in 2022 since these activities overlap. Maximum emissions are shown in bold.

As shown in the table above, the emissions from construction of the Project are below the SCAQMD daily construction thresholds for all the criteria pollutants, except VOC resulting from architectural coatings (painting). Please see the subheading "Recommended Mitigation Measures" for mitigation that reduces the Project's construction emissions.

Long-Term Analysis

Long-term emissions are evaluated at build-out of a project. The Project is assumed to be operational in 2022. Mobile source emissions refer to on-road motor vehicle emissions generated from the Project's traffic and based on the Traffic Impact Analysis (TIA) for Warehouse Building DPR 19-00016.[3] An average truck trip length of approximately 60 miles was assumed, which was provided by the City. On-site service equipment (i.e., forklifts) are assumed to be electric and therefore do not have any direct emissions of criteria pollutants. Area source emissions from the Project include stationary combustion emissions of natural gas used for space and water heating (shown in a separate row as energy), yard and landscape maintenance, and an average building square footage to be repainted each year. CalEEMod computes area source emissions based upon default factors and land use assumptions. To account for the energy used for parking lot lighting, the parking lot lighting energy intensity rate was conservatively applied to the approximate 8.27 acres that comprise the Project site's concrete parking lot and landscaped areas. The Project's energy emissions were adjusted to reflect the improvements expected from 2019 Title 24 standards, which became effective January 1, 2020.[4] Separate emissions were computed for both the summer and winter.

[3] Albert A. Webb Associates, *Rider-Redlands Warehouse Project Traffic Impact Analysis DPR 19-00016,* July 2020.

[4] The 2019 Title 24 standards are 7 percent more efficient for residential uses and 30 percent more efficient for non-residential uses than the 2016 standards in CalEEMod: https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf

Table 3 – Unmitigated Estimated Daily Project Operation Emissions (Summer)

Source	Peak Daily Emissions (lb/day)					
	VOC	NO_X	CO	SO_2	PM-10	PM-2.5
SCAQMD Daily Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Area	7.44	0.00	0.08	0.00	0.00	0.00
Energy	0.01	0.12	0.10	0.00	0.01	0.01
Mobile	2.00	36.17	30.15	0.24	14.08	3.95
Total	**9.45**	**36.29**	**30.32**	**0.24**	**14.09**	**3.96**
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

Table 4 – Unmitigated Estimated Daily Project Operation Emissions (Winter)

Source	Peak Daily Emissions (lb/day)					
	VOC	NO_X	CO	SO_2	PM-10	PM-2.5
SCAQMD Daily Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Area	7.44	0.00	0.08	0.00	0.00	0.00
Energy	0.01	0.12	0.10	0.00	0.01	0.01
Mobile	1.88	36.91	26.13	0.23	14.08	3.95
Total	**9.33**	**37.03**	**26.31**	**0.23**	**14.09**	**3.96**
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

Evaluation of the data presented on the above tables indicates that criteria pollutant emissions from operation of this Project will not exceed the SCAQMD regional daily thresholds for any pollutant during summer or winter.

▪ Localized Significance Threshold Analysis

Background

As part of the SCAQMD's environmental justice program, attention has been focused on localized effects of air quality. Staff at SCAQMD has developed localized significance threshold (LST) methodology[5] that can be used by public agencies to determine whether or not a project may generate significant adverse localized air quality impacts (both short- and long-term). LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the state ambient air quality standard, and are developed based on the ambient concentrations of that pollutant for each source receptor area (SRA). The Project is located in SRA 24.

Short-Term Analysis

According to the LST methodology, only on-site emissions need to be analyzed. Emissions associated with vendor and worker trips are mobile source emissions that occur off site. The emissions analyzed under the LST methodology are NO_2, CO, PM-10, and PM-2.5. SCAQMD has provided LST lookup tables[6] to allow users to readily determine if the daily emissions for proposed construction or operational activities could result in significant localized air quality impacts for projects five acres or smaller. Although the Project site disturbs more than five acres, it is anticipated that a smaller area will be disturbed per day. The SCAQMD's Fact Sheet for Applying CalEEMod to Localized Significance Thresholds is used to determine the maximum site acreage that is actively disturbed based on the construction equipment fleet and equipment hours as estimated in CalEEMod.[7] Based on this SCAQMD

[5] South Coast Air Quality Management District, *Final Localized Significance Threshold Methodology*, Revised July 2008. (Available at http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds, accessed July 2020.)

[6] http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds

[7] http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf?sfvrsn=2

guidance and the Project's equipment list during grading (above), the Project will disturb approximately four acres per day during grading.[8]

The LST thresholds are estimated using the maximum daily disturbed area (in acres) and the distance of the Project to the nearest sensitive receptors (in meters). The closest sensitive receptors to the Project construction site are the existing residential properties adjacent to and east of the Project site fronting Wilson Avenue. The closest receptor distance on the LST look-up tables is 25 meters. According to LST methodology, projects with boundaries closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters. Therefore, a receptor distance of 25 meters (85 feet) was used to ensure a conservative analysis. The results are summarized below.

Table 5 – Unmitigated LST Results for Daily Construction Emissions

Pollutant	Peak Daily Emissions (lb/day)			
	NO_X	CO	PM-10	PM-2.5
LST Threshold for 4-acres at 25 meters[1]	**237**	**1,346**	**11**	**7**
Demolition-2021	16.94	19.36	1.25	0.99
Site Preparation-2021	40.50	21.15	**9.09**	**5.75**
Grading-2021	**46.40**	**30.88**	5.37	3.23
Building Construction-2021	18.75	17.67	1.03	0.96
Building Construction-2022	16.77	17.44	0.86	0.81
Paving-2022	5.56	7.29	0.28	0.26
Architectural Coating-2022	1.88	2.42	0.11	0.11
Maximum[2]	**46.40**	**30.88**	**9.09**	**5.75**
Exceeds Threshold?	**No**	**No**	**No**	**No**

Note: [1] LST for 4-acre site predicted using Appendix K of SCAQMD LST Methodology

[2] Maximum emissions are the greater of either demolition, site preparation, grading or building construction alone in 2021, or the sum of building construction, paving and architectural coating in 2022 since these activities overlap. Maximum emissions are shown in bold

Emissions from construction of the Project will be below the LST established by SCAQMD for the Project.

Long-Term Analysis

According to the LST methodology, LSTs only apply to the operational phase if a project includes stationary sources or attracts mobile sources that may spend long periods of time idling at the site, such as warehouse/transfer facilities. Therefore, because the proposed Project will operate as a warehouse and has the potential to attract mobile sources that can reasonably be assumed to idle at the site, a long-term LST analysis was prepared for this Project. Although the Project exceeds five acres, per SCAQMD, the LST lookup tables can be used as a screening tool to determine if dispersion modeling would be necessary. Therefore, the Project's on-site emissions from CalEEMod and LST Look-Up Tables for the 5-acre site were utilized as a screening-level analysis.

CalEEMod version 2016.3.2 was utilized to estimate the Project's emissions from trucks traveling on the Project site. An on-site distance of 0.29 miles was conservatively assumed to be traveled for each one of the Project's truck trips identified in the Traffic Impact Analysis. The output is attached to this memo and summarized below. Idling emissions from trucks at loading docks is not available in CalEEMod; therefore, PM-10 and PM-2.5 idling emissions were calculated separately to account for 15-minutes of on-site idling per truck per day.[9] The results were added to the total PM-10 and PM-2.5 emissions from

[8] http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf?sfvrsn=2

[9] Idling emission factors obtained from EMFAC2017; idling calculations attached herewith

CalEEMod and presented in the table below. The closest sensitive receptors to the Project operations are the existing adjacent residential properties fronting on Wilson Avenue, east of the Project site. Therefore, a receptor distance of 25 meters (85 feet) was used to ensure a conservative analysis. The results are summarized below.

Table 6 – Unmitigated LST Results for Daily Operational Emissions

Pollutant	Peak Daily Emissions (lb/day)			
	NO_x	CO	PM-10[1]	PM-2.5[1]
LST Threshold for 5-acre at 25 meters	**270**	**1,577**	**4**	**2**
On-Site Truck Travel	12.78	2.07	0.07	0.03
Exceeds Threshold?	**No**	**No**	**No**	**No**

Note: The greater of summer or winter emissions from CalEEMod is shown. Output attached herewith.
[1] CalEEMod output emissions added to idling emissions

Therefore, as indicated in the table above, Project-related long-term operational emissions will not exceed any SCAQMD operational LST.

CO Hot Spots Analysis

A carbon monoxide (CO) "hot spot" is a localized concentration of CO that is above the state or federal 1-hour or 8-hour ambient air quality standards (AAQS). Localized high levels of CO are associated with traffic congestion and idling or slow-moving vehicles.

Based on the information presented below, a CO "hot spot" analysis is not needed to determine whether the addition of Project related traffic will contribute to an exceedance of either the state or federal AAQS for CO emissions in the Project area.

The analysis prepared for CO attainment in the South Coast Air Basin by the SCAQMD can be used to assist in evaluating the potential for CO exceedances in the South Coast Air Basin. CO attainment was thoroughly analyzed as part of the SCAQMD's 2003 Air Quality Management Plan (2003 AQMP)[10] and the Revised 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan). [11] As discussed in the 1992 CO Plan, peak carbon monoxide concentrations in the South Coast Air Basin are due to unusual meteorological and topographical conditions, and not due to the impact of particular intersections (2003 AQMP Appendix V, p. V-4-32). Considering the region's unique meteorological conditions and the increasingly stringent CO emissions standards, CO modeling was performed as part of the 1992 CO Plan and subsequent plan updates and air quality management plans.

In the 1992 CO Plan, a CO hot spot analysis was conducted for four busy intersections in Los Angeles at the peak morning and afternoon time periods. The intersections evaluated included: Long Beach Blvd. and Imperial Highway (Lynwood); Wilshire Blvd. and Veteran Ave. (Westwood); Sunset Blvd. and Highland Ave. (Hollywood); and La Cienega Blvd. and Century Blvd. (Inglewood). These analyses did not predict a violation of CO standards. The busiest intersection evaluated in the 1992 CO Plan and subsequent 2003 AQMP was that at Wilshire Blvd. and Veteran Ave., which has a daily traffic volume of approximately 100,000 vehicles per day (2003 AQMP Appendix V, Table 4-7). The Los Angeles County Metropolitan Transportation Authority (MTA)[12] evaluated the LOS in the vicinity of the Wilshire Blvd./Veteran Ave. intersection and found it to be level E at peak morning traffic and Level F at peak

[10] SCAQMD, *2003 Air Quality Management Plan, August 1, 2003.* (Available at http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/2003-aqmp, accessed July 28, 2020.)
[11] SCAQMD, *Revision to the 1992 Carbon Monoxide Attainment Plan*, September 1994. (Available at SCAQMD.)
[12] Metropolitan Transportation Authority, *2004 Congestion Management Plan for Los Angeles County*, Adopted July 22, 2004. (Available at http://www.metro.net/images/cmp_2004.pdf, accessed July 28, 2020.)

afternoon traffic (MTA, Exhibit 2-5 and 2-6). This hot spot analysis was conducted at intersections subject to extremes in vehicle volumes and vehicle congestion, and did not predict any violation of CO standards. Considering Project-related traffic as well as existing conditions, ambient growth, and cumulative project traffic, the highest average daily trips would be 11,673 on Rider Street east of the Project site. which is lower than the values studied by SCAQMD.[13] Therefore, it can reasonably be concluded that Project-related traffic would not have daily traffic volumes exceeding those at the intersections modeled in the 2003 AQMP, nor would there be any reason unique to the meteorology to conclude that intersections affected by the Project would yield higher CO concentrations if modeled in detail. Thus, the Project would not result in CO hot spots.

▪ Greenhouse Gas Analysis

Greenhouse gases (GHG) are not presented in lbs/day like criteria pollutants; they are typically evaluated on an annual basis using the metric system. Additionally, unlike the criteria pollutants, GHG do not have adopted significance thresholds associated with them at this time. Several agencies, at various levels, have proposed draft GHG significance thresholds for use in CEQA documents. SCAQMD has been working on GHG thresholds for development projects. The most recent draft proposal was in September 2010[14] and included significance thresholds for residential, commercial, and mixed-use projects at 3,500, 1,400, and 3,000 metric tonnes per year of carbon dioxide equivalents ($MTCO_2E$/yr), respectively. Alternatively, a lead agency has the option to use 3,000 $MTCO_2E$/yr as a threshold for all non-industrial projects. Although both options are recommended by SCAQMD, a lead agency is advised to use only one option and to use it consistently. In December 2008, the SCAQMD adopted a threshold of 10,000 $MTCO_2E$/yr for stationary source projects where SCAQMD is the lead agency. This approach is also widely used by the City of Perris and various other cities in the South Coast Air Basin where the SCAQMD is the lead agency. Further, this threshold has been applied by the City of Perris for other industrial developments subject to CEQA (IDI- Warehouse at Indian Avenue and Ramona Expressway, IPT Western/Nandina DC, and Duke Warehouse at Perry Street and Barrett Avenue). As such, this threshold is utilized herein to determine if emissions of GHG from this Project will be significant. The SCAQMD significance thresholds also evaluate construction emissions by amortizing them over an expected project life of 30 years.

Short-Term Analysis

Construction-Related Emissions

The CalEEMod model calculates GHG emissions from fuel usage by construction equipment and construction-related activities, like construction worker trips, for the Project. The CalEEMod estimate does not analyze emissions from construction-related electricity or natural gas. Construction-related electricity and natural gas emissions vary based on the amount of electric power used during construction and other unknown factors which make them too speculative to quantify. The CalEEMod output results for construction-related GHG emissions present the GHG emissions estimates for the Project for CO_2, methane (CH_4), nitrous oxide (N_2O), and CO_2E.[15]

Table 7 – Project Construction Equipment GHG Emissions

Year	Metric Tons per year (MT/yr)			
	Total CO_2	Total CH_4	Total N_2O	Total CO_2E
2021	226.33	0.05	0.00	227.60
2022	763.50	0.08	0.00	765.58
Total	989.83	0.13	0.00	993.18
			Amortized	**33.11**

[13] Albert A. Webb Associates, *Traffic Impact Analysis Warehouse Building DPR 19-00016,* July 2020.

[14] http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-main-presentation.pdf?sfvrsn=2

[15] CO_2E is the sum of CO_2 emissions estimated plus the sum of CH_4 and N_2O emissions estimated multiplied by their respective global warming potential (GWP).

Evaluation of the table above indicates that an estimated 993.18 $MTCO_2E$ will occur from Project construction equipment over the course of the estimated construction period. The draft SCAQMD GHG threshold Guidance document released in October 2008[16] recommends that construction emissions be amortized for a project lifetime of 30 years to ensure that GHG reduction measures address construction GHG emissions as part of the operational reduction strategies. Therefore, the total GHG emissions from Project construction were amortized and are included in **Table 9**, below.

Long-Term Analysis

Area Source Emissions

CalEEMod estimates the GHG emissions associated with area sources which include landscape equipment emissions, architectural coating, consumer products, and hearths. Landscape equipment servicing the Project site create CO_2 resulting from fuel combustion based on the Project's land uses. Consumer products consist of consumer use of solvents and personal care products and architectural coatings consist of an average building square footage to be repainted each year. **Table 9** summarizes the Project's area source emissions.

Energy-Related Emissions

CalEEMod estimates the GHG emissions associated with building electricity and natural gas usage (non-hearth) for each land use type. Electricity and natural gas used in buildings is typically generated at an off-site power plant which indirectly generates GHG emissions. The default energy usage values used in CalEEMod are based on the CEC sponsored California Commercial End Use Survey and Residential Appliance Saturation Survey studies and reflect 2016 Title 24 improvements (CalEEMod User's Guide, Appendix A). The default CO_2 electricity intensity factor within CalEEMod for Southern California Edison (SCE), which reflect 2012 data, was adjusted to reflect the most recent data available for 2019.[17] As stated above, the Project's energy emissions were also adjusted to reflect the 2019 Title 24 standards, which are 30 percent more efficient for nonresidential uses.[18] The following table summarizes the GHG emissions estimates reported by CalEEMod for the Project based on the assumptions described previously.

Table 8 – Energy-Related GHG Emissions

Source	Metric Tons per year (MT/yr)			
	CO_2	CH_4	N_2O	Total CO_2E
Electricity	206.13	0.01	0.00	207.10
Natural Gas	24.74	0.00	0.00	24.88
Total	**230.87**	0.01	0.00	**231.98**

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

Mobile Source Emissions

CalEEMod estimates the annual GHG emissions from Project-related vehicle usage based on trip generation data contained in defaults or in a project-specific traffic analyses. As stated above, the trip generation rate and fleet mix were adjusted based on the rates and ratios found in the TIA for DPR 19-00016. Trip length data was based on CalEEMod defaults for passenger cars and the distance provided by the City for Project trucks. **Table 9** shows the mobile source emissions from the Project.

[16] http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-6/ghg-meeting-6-guidance-document-discussion.pdf?sfvrsn=2

[17] https://www.edison.com/content/dam/eix/documents/sustainability/eix-2019-sustainability-report-scorecard.pdf

[18] The 2019 Title 24 standards are seven and 30 percent more efficient for residential and non-residential uses than the 2016 standards in CalEEMod: https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf

Solid Waste Emissions

CalEEMod also calculates the GHG emissions associated with the disposal of solid waste into landfills based on default data contained within the model for waste disposal rates, composition, and the characteristics of landfills throughout the state. A large percentage of this waste will be diverted from landfills by a variety of means, such as reducing the amount of waste generated, recycling, and/or composting. The remainder of the waste not diverted will be disposed of at a landfill. This analysis assumes a solid waste diversion from the landfills consistent with the most recent data provided by the state, 62 percent. [19] The waste diversion rate was evaluated in the model by selecting the mitigation option for solid waste and **Table 9** shows the solid waste emissions from the Project utilizing this waste reduction rate.

Water-Related Energy Usage

Electricity is also indirectly used in water supply, treatment, and distribution, as well as wastewater treatment in Southern California and plays a large role in GHG production.

There are three processes necessary to supply potable water to urban users (i.e., residential, commercial, and industrial): (1) supply and conveyance of the water from the source; (2) treatment of the water to potable standards; and (3) distribution of the water to individual users. After use, the wastewater is treated and either reused as reclaimed/recycled water or returned to the environment. CalEEMod calculates the GHG emissions from these processes based on default emissions factors and water/wastewater generation rates for a project's location. Default values were used for electricity intensity factor associated with the supply and conveyance of water from its source which assumes that the water is being imported from Northern California. Indoor water demand was obtained from the Design Conditions Report,[20] using the average daily demand. Outdoor water demand was provided by the Recycled Water Use Exhibit.[21]**Table 9** shows the GHG emissions from water-related energy usage for the Project.

Total Project GHG Emissions

As shown on **Table 9 – Total Project-Related GHG Emissions**, using all the emissions quantified above, the total GHG emissions generated from the Project is approximately 4,270.44 $MTCO_2E$/yr which includes construction-related emissions amortized over a typical project life of 30 years.

Table 9 – Total Project-Related GHG Emissions

Source	Metric Tons per year (MT/yr)			
	CO_2	CH_4	N_2O	Total CO_2E
Amortized Construction	--	--	--	33.11
Area	0.02	0.00	0.00	0.02
Energy	230.87	0.01	0.00	231.98
Mobile	3,923.94	0.14	0.00	3,927.53
Solid Waste	23.50	1.39	0.00	58.23
Water	16.02	0.11	0.00	19.57
Total	**4,194.35**	**1.65**	**0.00**	**4,270.44**

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

The total GHG emissions from the Project do not exceed the SCAQMD interim threshold of level of 10,000 $MTCO_2E$/yr for industrial projects.

[19] CalRecycle, California's Estimated Statewide Diversion Rates Since 1989, webpage. Available at: https://www.calrecycle.ca.gov/lgcentral/goalmeasure/disposalrate/graphs/estdiversion, accessed July 28, 2020.

[20] Albert A Webb Associates, *Rider Redlands Design Conditions Letter – (PPI# 2019-1297)* , July 17, 2020.

[21] Albert A Webb Associates, Recycled Water Use Exhibit, July 20,2020.

▪ Recommended Mitigation Measures

The following mitigation measure identified in the *Perris Valley Commerce Center Specific Plan EIR* is recommended to reduce VOC emissions from Project construction:

MM AQ 1: To reduce VOC emissions associated with architectural coating, the project designer and contractor shall reduce the use of paints and solvents by utilizing pre-coated materials (e.g. bathroom stall dividers, metal awnings), materials that do not require painting, and require coatings and solvents with a VOC content lower than required under Rule 1113 to be utilized. The construction contractor shall be required to utilize "Super-Compliant" VOC paints, which are defined in SCAQMD's Rule 1113. Construction specifications shall be included in building specifications that assure these requirements are implemented. The specifications for each implementing development project shall be reviewed by the City of Perris' Building Division for compliance with this mitigation measure prior to issuance of a building permit for that project.

▪ Impacts after Mitigation

Implementation of mitigation measure **MM AQ 1** will reduce the Project's short-term construction-related emissions. **MM AQ 1** has quantitative reductions associated with it available in CalEEMod. The mitigated emissions are shown in **Table 10**, below, and indicate that VOC emissions from architectural coatings (painting) activities will be reduced below the SCAQMD thresholds.

Table 10 – Mitigated Estimated Daily Construction Emissions

Activity	Peak Daily Emissions (lb/day)					
	VOC	NO_X	CO	SO_2	PM-10	PM-2.5
SCAQMD Daily Construction Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Site Preparation 2021[1]	3.98	40.73	21.85	0.04	**9.31**	**5.81**
Grading-2021	4.29	**46.64**	31.66	0.06	5.61	3.29
Building Construction-2022[1]	**3.53**	28.56	**30.42**	**0.09**	5.33	2.20
Paving-2022[1]	**0.85**	5.76	**7.59**	**0.01**	0.39	0.29
Architectural Coatings-2022	**21.79**	2.04	**4.63**	**0.01**	0.84	0.23
Maximum[2]	**26.17**	**46.64**	**42.64**	**0.11**	**9.31**	**5.81**
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: [1]Maximum emissions are from Table 2.

[2] Maximum emissions are the greater of either demolition, site preparation, grading or building construction alone in 2021, or the sum of building construction, paving and architectural coating in 2022 since these activities overlap. Maximum emissions are shown in bold.

With implementation of **MM AQ 1**, VOC emissions associated with painting activities will be reduced below applicable thresholds.

▪ Conclusion

The conclusion of this analysis indicates that construction of the proposed Project will not exceed criteria pollutant thresholds established by SCAQMD on a regional level after implementation of mitigation measures. The analysis also concludes that operation of the proposed Project will not exceed criteria pollutant thresholds established by SCAQMD on a regional level. The Project's construction and operation will not exceed criteria pollutant thresholds established by SCAQMD on a localized level. In addition, the Project will not create a CO hot spot. The Project's GHG emissions will not exceed the SCAQMD interim threshold of 10,000 $MTCO_2E$/yr.

Should you have any questions, please contact me at (951) 686-1070.

CALEEMOD OUTPUT FILES

CalEEMod Version: CalEEMod.2016.3.2

Date: 7/28/2020 10:25 PM

First Industrial Wharehouse on Rider St. - Riverside-South Coast County, Summer

First Industrial Wharehouse on Rider St.

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	324.15	1000sqft	7.44	324,147.00	0
Other Asphalt Surfaces	86.14	1000sqft	1.98	86,139.00	0
Other Non-Asphalt Surfaces	360.29	1000sqft	8.27	360,289.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE carbon intestity adjusted per 2019 SCE data.

Land Use - Per Plot Plan, includes paved streets along site frontage.

Construction Phase - Per Aplicant

Off-road Equipment - 8hr work day assumed

Off-road Equipment - 8hr work day assumed.

Off-road Equipment - Per Applicant

Off-road Equipment -

Off-road Equipment - Per Applicant

Off-road Equipment -

Trips and VMT - 2 water truck trips are added to Demolition, Site Preperation, Grading and Paving Activities per rule 403.

Demolition - Per engineer.

Vehicle Trips - Per TIA, City of Perris average Non Res trip Length.

Energy Use - Added 0.35 Lighting Energy Intensity to account for parking lot lighting

Construction Off-road Equipment Mitigation - Per rule 403

Water Mitigation -

Waste Mitigation - Per CalRecycle

Fleet Mix - Per TIA

Water And Wastewater - Per Design Considerations and RWUE

Energy Mitigation - 2019 T24

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	300.00	197.00
tblConstructionPhase	NumDays	10.00	20.00
tblEnergyUse	LightingElect	0.00	0.35
tblFleetMix	HHD	0.07	0.20
tblFleetMix	LDA	0.55	0.48
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT2	0.19	0.16
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.05
tblFleetMix	MCY	4.5470e-003	3.9660e-003
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	8.4200e-004
tblFleetMix	MHD	0.02	0.07
tblFleetMix	OBUS	1.3970e-003	1.2180e-003
tblFleetMix	SBUS	9.3200e-004	8.1300e-004
tblFleetMix	UBUS	1.1600e-003	1.0120e-003
tblLandUse	LandUseSquareFeet	324,150.00	324,147.00

tblLandUse	LandUseSquareFeet	86,140.00	86,139.00
tblLandUse	LandUseSquareFeet	360,290.00	360,289.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	CNW_TL	6.90	60.00
tblVehicleTrips	CNW_TTP	41.00	32.20
tblVehicleTrips	CW_TTP	59.00	67.80
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.74
tblVehicleTrips	SU_TR	1.68	1.74
tblVehicleTrips	WD_TR	1.68	1.74
tblWater	IndoorWaterUseRate	74,959,687.50	3,332,450.00
tblWater	OutdoorWaterUseRate	0.00	1,681,391.20

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2907	46.6389	31.7296	0.0961	18.2803	2.0460	20.3263	9.9877	1.8823	11.8701	0.0000	9,628.7996	9,628.7996	1.9518	0.0000	9,653.8912
2022	161.3873	36.3478	42.6513	0.1179	5.2571	1.3018	6.5590	1.4128	1.2240	2.6368	0.0000	11,756.6972	11,756.6972	1.3800	0.0000	11,791.1977
Maximum	**161.3873**	**46.6389**	**42.6513**	**0.1179**	**18.2803**	**2.0460**	**20.3263**	**9.9877**	**1.8823**	**11.8701**	**0.0000**	**11,756.6972**	**11,756.6972**	**1.9518**	**0.0000**	**11,791.1977**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2907	46.6389	31.7296	0.0961	7.2599	2.0460	9.3058	3.9300	1.8823	5.8123	0.0000	9,628.7996	9,628.7996	1.9518	0.0000	9,653.8912
2022	161.3873	36.3478	42.6513	0.1179	5.2571	1.3018	6.5590	1.4128	1.2240	2.6368	0.0000	11,756.6972	11,756.6972	1.3800	0.0000	11,791.1976
Maximum	**161.3873**	**46.6389**	**42.6513**	**0.1179**	**7.2599**	**2.0460**	**9.3058**	**3.9300**	**1.8823**	**5.8123**	**0.0000**	**11,756.6972**	**11,756.6972**	**1.9518**	**0.0000**	**11,791.1976**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**46.82**	**0.00**	**40.99**	**53.14**	**0.00**	**41.76**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Energy	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Mobile	1.9995	36.1735	30.1472	0.2360	13.9003	0.1814	14.0818	3.7752	0.1720	3.9471		24,504.1336	24,504.1336	0.8651		24,525.7618
Total	**9.4598**	**36.3509**	**30.3745**	**0.2371**	**13.9003**	**0.1951**	**14.0955**	**3.7752**	**0.1857**	**3.9608**		**24,716.3952**	**24,716.3952**	**0.8696**	**3.8900e-003**	**24,739.2949**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Energy	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003		149.4054	149.4054	2.8600e-003	2.7400e-003	150.2932
Mobile	1.9995	36.1735	30.1472	0.2360	13.9003	0.1814	14.0818	3.7752	0.1720	3.9471		24,504.1336	24,504.1336	0.8651		24,525.7618
Total	**9.4540**	**36.2987**	**30.3306**	**0.2368**	**13.9003**	**0.1912**	**14.0915**	**3.7752**	**0.1817**	**3.9569**		**24,653.7076**	**24,653.7076**	**0.8684**	**2.7400e-003**	**24,676.2348**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.06**	**0.14**	**0.14**	**0.13**	**0.00**	**2.03**	**0.03**	**0.00**	**2.14**	**0.10**	**0.00**	**0.25**	**0.25**	**0.14**	**29.56**	**0.25**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	9/28/2021	5	20	
2	Site Preparation	Site Preparation	9/29/2021	10/26/2021	5	20	
3	Grading	Grading	10/27/2021	12/7/2021	5	30	
4	Building Construction	Building Construction	12/8/2021	9/8/2022	5	197	
5	Paving	Paving	8/12/2022	9/8/2022	5	20	
6	Architectural Coating	Architectural Coating	8/12/2022	9/8/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 10.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 486,221; Non-Residential Outdoor: 162,074; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Forklifts	3	8.00	89	0.20
Demolition	Generator Sets	1	8.00	84	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Demolition	Welders	1	8.00	46	0.45
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40

Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	9	23.00	2.00	58.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	324.00	126.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	65.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6339	0.0000	0.6339	0.0960	0.0000	0.0960			0.0000			0.0000
Off-Road	1.9947	16.9378	19.3618	0.0293		1.0014	1.0014		0.9545	0.9545		2,769.9697	2,769.9697	0.5288		2,783.1898
Total	**1.9947**	**16.9378**	**19.3618**	**0.0293**	**0.6339**	**1.0014**	**1.6353**	**0.0960**	**0.9545**	**1.0504**		**2,769.9697**	**2,769.9697**	**0.5288**		**2,783.1898**

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	0.0141	0.6303	0.0829	2.1800e-003	0.0507	1.9200e-003	0.0527	0.0139	1.8400e-003	0.0157		231.8072	231.8072	0.0135		232.1438
Vendor	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.1090	0.0621	0.8503	2.4600e-003	0.2571	1.5100e-003	0.2586	0.0682	1.3900e-003	0.0696		244.8927	244.8927	5.8400e-003		245.0387
Total	**0.1278**	**0.8775**	**0.9663**	**5.1600e-003**	**0.3206**	**3.7800e-003**	**0.3244**	**0.0858**	**3.5700e-003**	**0.0893**		**531.3501**	**531.3501**	**0.0232**		**531.9304**

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					0.2472	0.0000	0.2472	0.0374	0.0000	0.0374			0.0000			0.0000
Off-Road	1.9947	16.9378	19.3618	0.0293		1.0014	1.0014		0.9545	0.9545	0.0000	2,769.9697	2,769.9697	0.5288		2,783.1898
Total	**1.9947**	**16.9378**	**19.3618**	**0.0293**	**0.2472**	**1.0014**	**1.2486**	**0.0374**	**0.9545**	**0.9919**	**0.0000**	**2,769.9697**	**2,769.9697**	**0.5288**		**2,783.1898**

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	0.0141	0.6303	0.0829	2.1800e-003	0.0507	1.9200e-003	0.0527	0.0139	1.8400e-003	0.0157		231.8072	231.8072	0.0135		232.1438
Vendor	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.1090	0.0621	0.8503	2.4600e-003	0.2571	1.5100e-003	0.2586	0.0682	1.3900e-003	0.0696		244.8927	244.8927	5.8400e-003		245.0387
Total	**0.1278**	**0.8775**	**0.9663**	**5.1600e-003**	**0.3206**	**3.7800e-003**	**0.3244**	**0.0858**	**3.5700e-003**	**0.0893**		**531.3501**	**531.3501**	**0.0232**		**531.9304**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

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

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	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.0853	0.0486	0.6655	1.9200e-003	0.2012	1.1900e-003	0.2024	0.0534	1.0900e-003	0.0545		191.6552	191.6552	4.5700e-003		191.7694
Total	**0.0900**	**0.2337**	**0.6985**	**2.4400e-003**	**0.2140**	**1.5400e-003**	**0.2155**	**0.0571**	**1.4300e-003**	**0.0585**		**246.3054**	**246.3054**	**8.4800e-003**		**246.5174**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**7.0458**	**2.0445**	**9.0903**	**3.8730**	**1.8809**	**5.7539**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

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	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.0853	0.0486	0.6655	1.9200e-003	0.2012	1.1900e-003	0.2024	0.0534	1.0900e-003	0.0545		191.6552	191.6552	4.5700e-003		191.7694
Total	**0.0900**	**0.2337**	**0.6985**	**2.4400e-003**	**0.2140**	**1.5400e-003**	**0.2155**	**0.0571**	**1.4300e-003**	**0.0585**		**246.3054**	**246.3054**	**8.4800e-003**		**246.5174**

3.4 Grading - 2021

Unmitigated Construction On-Site

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

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	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.0948	0.0540	0.7394	2.1400e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		212.9502	212.9502	5.0800e-003		213.0771
Total	**0.0995**	**0.2391**	**0.7724**	**2.6600e-003**	**0.2364**	**1.6700e-003**	**0.2380**	**0.0630**	**1.5500e-003**	**0.0645**		**267.6004**	**267.6004**	**8.9900e-003**		**267.8251**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**3.3826**	**1.9853**	**5.3679**	**1.4026**	**1.8265**	**3.2292**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

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	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.0948	0.0540	0.7394	2.1400e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		212.9502	212.9502	5.0800e-003		213.0771
Total	**0.0995**	**0.2391**	**0.7724**	**2.6600e-003**	**0.2364**	**1.6700e-003**	**0.2380**	**0.0630**	**1.5500e-003**	**0.0645**		**267.6004**	**267.6004**	**8.9900e-003**		**267.8251**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625		2,736.0438	2,736.0438	0.6751		2,752.9212
Total	**2.0228**	**18.7492**	**17.6706**	**0.0288**		**1.0251**	**1.0251**		**0.9625**	**0.9625**		**2,736.0438**	**2,736.0438**	**0.6751**		**2,752.9212**

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	0.2942	11.6599	2.0803	0.0327	0.8068	0.0222	0.8290	0.2323	0.0212	0.2535		3,442.9629	3,442.9629	0.2463		3,449.1206
Worker	1.5361	0.8751	11.9787	0.0346	3.6216	0.0213	3.6429	0.9605	0.0197	0.9801		3,449.7930	3,449.7930	0.0823		3,451.8494
Total	**1.8302**	**12.5350**	**14.0590**	**0.0673**	**4.4284**	**0.0435**	**4.4719**	**1.1928**	**0.0409**	**1.2336**		**6,892.7558**	**6,892.7558**	**0.3286**		**6,900.9700**

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	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625	0.0000	2,736.0438	2,736.0438	0.6751		2,752.9212
Total	**2.0228**	**18.7492**	**17.6706**	**0.0288**		**1.0251**	**1.0251**		**0.9625**	**0.9625**	**0.0000**	**2,736.0438**	**2,736.0438**	**0.6751**		**2,752.9212**

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	0.2942	11.6599	2.0803	0.0327	0.8068	0.0222	0.8290	0.2323	0.0212	0.2535		3,442.9629	3,442.9629	0.2463		3,449.1206
Worker	1.5361	0.8751	11.9787	0.0346	3.6216	0.0213	3.6429	0.9605	0.0197	0.9801		3,449.7930	3,449.7930	0.0823		3,451.8494
Total	**1.8302**	**12.5350**	**14.0590**	**0.0673**	**4.4284**	**0.0435**	**4.4719**	**1.1928**	**0.0409**	**1.2336**		**6,892.7558**	**6,892.7558**	**0.3286**		**6,900.9700**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288
Total	**1.8146**	**16.7670**	**17.4392**	**0.0288**		**0.8645**	**0.8645**		**0.8122**	**0.8122**		**2,737.1520**	**2,737.1520**	**0.6711**		**2,753.9288**

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	0.2743	11.0008	1.9350	0.0324	0.8068	0.0187	0.8254	0.2323	0.0178	0.2501		3,413.6573	3,413.6573	0.2333		3,419.4891
Worker	1.4368	0.7875	11.0487	0.0334	3.6216	0.0208	3.6423	0.9605	0.0191	0.9796		3,323.7412	3,323.7412	0.0739		3,325.5884
Total	**1.7111**	**11.7883**	**12.9837**	**0.0657**	**4.4284**	**0.0394**	**4.4678**	**1.1927**	**0.0370**	**1.2297**		**6,737.3984**	**6,737.3984**	**0.3072**		**6,745.0774**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288
Total	**1.8146**	**16.7670**	**17.4392**	**0.0288**		**0.8645**	**0.8645**		**0.8122**	**0.8122**	**0.0000**	**2,737.1520**	**2,737.1520**	**0.6711**		**2,753.9288**

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	0.2743	11.0008	1.9350	0.0324	0.8068	0.0187	0.8254	0.2323	0.0178	0.2501		3,413.6573	3,413.6573	0.2333		3,419.4891
Worker	1.4368	0.7875	11.0487	0.0334	3.6216	0.0208	3.6423	0.9605	0.0191	0.9796		3,323.7412	3,323.7412	0.0739		3,325.5884
Total	**1.7111**	**11.7883**	**12.9837**	**0.0657**	**4.4284**	**0.0394**	**4.4678**	**1.1927**	**0.0370**	**1.2297**		**6,737.3984**	**6,737.3984**	**0.3072**		**6,745.0774**

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5514	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612		1,103.8302	1,103.8302	0.3570		1,112.7552
Paving	0.2594					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8108**	**5.5624**	**7.2902**	**0.0114**		**0.2840**	**0.2840**		**0.2612**	**0.2612**		**1,103.8302**	**1,103.8302**	**0.3570**		**1,112.7552**

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	4.3500e-003	0.1746	0.0307	5.1000e-004	0.0128	3.0000e-004	0.0131	3.6900e-003	2.8000e-004	3.9700e-003		54.1850	54.1850	3.7000e-003		54.2776
Worker	0.0355	0.0194	0.2728	8.2000e-004	0.0894	5.1000e-004	0.0899	0.0237	4.7000e-004	0.0242		82.0677	82.0677	1.8200e-003		82.1133
Total	**0.0398**	**0.1941**	**0.3035**	**1.3300e-003**	**0.1022**	**8.1000e-004**	**0.1030**	**0.0274**	**7.5000e-004**	**0.0282**		**136.2527**	**136.2527**	**5.5200e-003**		**136.3909**

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	0.5514	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612	0.0000	1,103.8302	1,103.8302	0.3570		1,112.7552
Paving	0.2594					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8108**	**5.5624**	**7.2902**	**0.0114**		**0.2840**	**0.2840**		**0.2612**	**0.2612**	**0.0000**	**1,103.8302**	**1,103.8302**	**0.3570**		**1,112.7552**

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	4.3500e-003	0.1746	0.0307	5.1000e-004	0.0128	3.0000e-004	0.0131	3.6900e-003	2.8000e-004	3.9700e-003		54.1850	54.1850	3.7000e-003		54.2776
Worker	0.0355	0.0194	0.2728	8.2000e-004	0.0894	5.1000e-004	0.0899	0.0237	4.7000e-004	0.0242		82.0677	82.0677	1.8200e-003		82.1133
Total	**0.0398**	**0.1941**	**0.3035**	**1.3300e-003**	**0.1022**	**8.1000e-004**	**0.1030**	**0.0274**	**7.5000e-004**	**0.0282**		**136.2527**	**136.2527**	**5.5200e-003**		**136.3909**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	156.4500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**156.7227**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

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	0.2883	0.1580	2.2166	6.6900e-003	0.7266	4.1700e-003	0.7307	0.1927	3.8400e-003	0.1965		666.7999	666.7999	0.0148		667.1705
Total	**0.2883**	**0.1580**	**2.2166**	**6.6900e-003**	**0.7266**	**4.1700e-003**	**0.7307**	**0.1927**	**3.8400e-003**	**0.1965**		**666.7999**	**666.7999**	**0.0148**		**667.1705**

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	156.4500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**156.7227**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

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	0.2883	0.1580	2.2166	6.6900e-003	0.7266	4.1700e-003	0.7307	0.1927	3.8400e-003	0.1965		666.7999	666.7999	0.0148		667.1705
Total	**0.2883**	**0.1580**	**2.2166**	**6.6900e-003**	**0.7266**	**4.1700e-003**	**0.7307**	**0.1927**	**3.8400e-003**	**0.1965**		**666.7999**	**666.7999**	**0.0148**		**667.1705**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9995	36.1735	30.1472	0.2360	13.9003	0.1814	14.0818	3.7752	0.1720	3.9471		24,504.1336	24,504.1336	0.8651		24,525.7618
Unmitigated	1.9995	36.1735	30.1472	0.2360	13.9003	0.1814	14.0818	3.7752	0.1720	3.9471		24,504.1336	24,504.1336	0.8651		24,525.7618

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	564.02	564.02	564.02	6,277,118	6,277,118
Total	564.02	564.02	564.02	6,277,118	6,277,118

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	8.40	60.00	67.80	0.00	32.20	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Non-Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Unrefrigerated Warehouse-No Rail	0.475764	0.032143	0.162242	0.000000	0.000000	0.054000	0.067000	0.201000	0.001218	0.001012	0.003966	0.000813	0.000842

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003		149.4054	149.4054	2.8600e-003	2.7400e-003	150.2932
NaturalGas Unmitigated	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1802.79	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Total		**0.0194**	**0.1767**	**0.1485**	**1.0600e-003**		**0.0134**	**0.0134**		**0.0134**	**0.0134**		**212.0930**	**212.0930**	**4.0700e-003**	**3.8900e-003**	**213.3533**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.26995	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003		149.4054	149.4054	2.8600e-003	2.7400e-003	150.2932
Total		**0.0137**	**0.1245**	**0.1046**	**7.5000e-004**		**9.4600e-003**	**9.4600e-003**		**9.4600e-003**	**9.4600e-003**		**149.4054**	**149.4054**	**2.8600e-003**	**2.7400e-003**	**150.2932**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Unmitigated	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798

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	0.8573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5762					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.3300e-003	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Total	**7.4408**	**7.2000e-004**	**0.0788**	**1.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**		**0.1686**	**0.1686**	**4.4000e-004**		**0.1798**

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	0.8573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5762					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.3300e-003	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Total	**7.4408**	**7.2000e-004**	**0.0788**	**1.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**		**0.1686**	**0.1686**	**4.4000e-004**		**0.1798**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

CalEEMod Version: CalEEMod.2016.3.2

Date: 7/28/2020 10:23 PM

First Industrial Wharehouse on Rider St. - Riverside-South Coast County, Winter

First Industrial Wharehouse on Rider St.

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	324.15	1000sqft	7.44	324,147.00	0
Other Asphalt Surfaces	86.14	1000sqft	1.98	86,139.00	0
Other Non-Asphalt Surfaces	360.29	1000sqft	8.27	360,289.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE carbon intestity adjusted per 2019 SCE data.

Land Use - Per Plot Plan, includes paved streets along site frontage.

Construction Phase - Per Aplicant

Off-road Equipment - 8hr work day assumed

Off-road Equipment - 8hr work day assumed.

Off-road Equipment - Per Applicant

Off-road Equipment -

Off-road Equipment - Per Applicant

Off-road Equipment -

Trips and VMT - 2 water truck trips are added to Demolition, Site Preperation, Grading and Paving Activities per rule 403.

Demolition - Per engineer.

Vehicle Trips - Per TIA, City of Perris average Non Res trip Length.

Energy Use - Added 0.35 Lighting Energy Intensity to account for parking lot lighting

Construction Off-road Equipment Mitigation - Per rule 403

Water Mitigation -

Waste Mitigation - Per CalRecycle

Fleet Mix - Per TIA

Water And Wastewater - Per Design Considerations and RWUE

Energy Mitigation - 2019 T24

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	300.00	197.00
tblConstructionPhase	NumDays	10.00	20.00
tblEnergyUse	LightingElect	0.00	0.35
tblFleetMix	HHD	0.07	0.20
tblFleetMix	LDA	0.55	0.48
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT2	0.19	0.16
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.05
tblFleetMix	MCY	4.5470e-003	3.9660e-003
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	8.4200e-004
tblFleetMix	MHD	0.02	0.07
tblFleetMix	OBUS	1.3970e-003	1.2180e-003
tblFleetMix	SBUS	9.3200e-004	8.1300e-004
tblFleetMix	UBUS	1.1600e-003	1.0120e-003
tblLandUse	LandUseSquareFeet	324,150.00	324,147.00

tblLandUse	LandUseSquareFeet	86,140.00	86,139.00
tblLandUse	LandUseSquareFeet	360,290.00	360,289.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	CNW_TL	6.90	60.00
tblVehicleTrips	CNW_TTP	41.00	32.20
tblVehicleTrips	CW_TTP	59.00	67.80
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.74
tblVehicleTrips	SU_TR	1.68	1.74
tblVehicleTrips	WD_TR	1.68	1.74
tblWater	IndoorWaterUseRate	74,959,687.50	3,332,450.00
tblWater	OutdoorWaterUseRate	0.00	1,681,391.20

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2892	46.6392	31.5144	0.0913	18.2803	2.0460	20.3263	9.9877	1.8823	11.8701	0.0000	9,144.3334	9,144.3334	1.9516	0.0000	9,169.8600
2022	161.3773	36.2685	40.3925	0.1125	5.2571	1.3024	6.5596	1.4128	1.2246	2.6374	0.0000	11,206.6589	11,206.6589	1.3956	0.0000	11,241.5495
Maximum	**161.3773**	**46.6392**	**40.3925**	**0.1125**	**18.2803**	**2.0460**	**20.3263**	**9.9877**	**1.8823**	**11.8701**	**0.0000**	**11,206.6589**	**11,206.6589**	**1.9516**	**0.0000**	**11,241.5495**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2892	46.6392	31.5144	0.0913	7.2599	2.0460	9.3059	3.9300	1.8823	5.8124	0.0000	9,144.3334	9,144.3334	1.9516	0.0000	9,169.8600
2022	161.3773	36.2685	40.3925	0.1125	5.2571	1.3024	6.5596	1.4128	1.2246	2.6374	0.0000	11,206.6589	11,206.6589	1.3956	0.0000	11,241.5495
Maximum	**161.3773**	**46.6392**	**40.3925**	**0.1125**	**7.2599**	**2.0460**	**9.3059**	**3.9300**	**1.8823**	**5.8124**	**0.0000**	**11,206.6589**	**11,206.6589**	**1.9516**	**0.0000**	**11,241.5495**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**46.82**	**0.00**	**40.99**	**53.14**	**0.00**	**41.76**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Energy	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Mobile	1.8762	36.9097	26.1259	0.2259	13.9003	0.1824	14.0828	3.7752	0.1729	3.9481		23,486.4036	23,486.4036	0.8945		23,508.7664
Total	**9.3365**	**37.0872**	**26.3532**	**0.2270**	**13.9003**	**0.1961**	**14.0965**	**3.7752**	**0.1866**	**3.9618**		**23,698.6652**	**23,698.6652**	**0.8990**	**3.8900e-003**	**23,722.2995**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Energy	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003		149.4054	149.4054	2.8600e-003	2.7400e-003	150.2932
Mobile	1.8762	36.9097	26.1259	0.2259	13.9003	0.1824	14.0828	3.7752	0.1729	3.9481		23,486.4036	23,486.4036	0.8945		23,508.7664
Total	**9.3307**	**37.0350**	**26.3093**	**0.2266**	**13.9003**	**0.1922**	**14.0925**	**3.7752**	**0.1827**	**3.9578**		**23,635.9776**	**23,635.9776**	**0.8978**	**2.7400e-003**	**23,659.2394**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.06**	**0.14**	**0.17**	**0.14**	**0.00**	**2.02**	**0.03**	**0.00**	**2.13**	**0.10**	**0.00**	**0.26**	**0.26**	**0.13**	**29.56**	**0.27**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	9/28/2021	5	20	
2	Site Preparation	Site Preparation	9/29/2021	10/26/2021	5	20	
3	Grading	Grading	10/27/2021	12/7/2021	5	30	
4	Building Construction	Building Construction	12/8/2021	9/8/2022	5	197	
5	Paving	Paving	8/12/2022	9/8/2022	5	20	
6	Architectural Coating	Architectural Coating	8/12/2022	9/8/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 10.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 486,221; Non-Residential Outdoor: 162,074; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Forklifts	3	8.00	89	0.20
Demolition	Generator Sets	1	8.00	84	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Demolition	Welders	1	8.00	46	0.45
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41

Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	9	23.00	2.00	58.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	324.00	126.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	65.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6339	0.0000	0.6339	0.0960	0.0000	0.0960			0.0000			0.0000
Off-Road	1.9947	16.9378	19.3618	0.0293		1.0014	1.0014		0.9545	0.9545		2,769.9697	2,769.9697	0.5288		2,783.1898
Total	**1.9947**	**16.9378**	**19.3618**	**0.0293**	**0.6339**	**1.0014**	**1.6353**	**0.0960**	**0.9545**	**1.0504**		**2,769.9697**	**2,769.9697**	**0.5288**		**2,783.1898**

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	0.0149	0.6346	0.0967	2.1300e-003	0.0507	1.9500e-003	0.0527	0.0139	1.8600e-003	0.0158		225.9831	225.9831	0.0147		226.3513
Vendor	4.9600e-003	0.1835	0.0391	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.5000e-004	4.0300e-003		52.5946	52.5946	4.3600e-003		52.7036
Worker	0.1070	0.0642	0.6864	2.2000e-003	0.2571	1.5100e-003	0.2586	0.0682	1.3900e-003	0.0696		219.6945	219.6945	5.0800e-003		219.8214
Total	**0.1268**	**0.8823**	**0.8221**	**4.8300e-003**	**0.3206**	**3.8200e-003**	**0.3245**	**0.0858**	**3.6000e-003**	**0.0894**		**498.2722**	**498.2722**	**0.0242**		**498.8763**

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					0.2472	0.0000	0.2472	0.0374	0.0000	0.0374			0.0000			0.0000
Off-Road	1.9947	16.9378	19.3618	0.0293		1.0014	1.0014		0.9545	0.9545	0.0000	2,769.9697	2,769.9697	0.5288		2,783.1898
Total	**1.9947**	**16.9378**	**19.3618**	**0.0293**	**0.2472**	**1.0014**	**1.2486**	**0.0374**	**0.9545**	**0.9919**	**0.0000**	**2,769.9697**	**2,769.9697**	**0.5288**		**2,783.1898**

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	0.0149	0.6346	0.0967	2.1300e-003	0.0507	1.9500e-003	0.0527	0.0139	1.8600e-003	0.0158		225.9831	225.9831	0.0147		226.3513
Vendor	4.9600e-003	0.1835	0.0391	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.5000e-004	4.0300e-003		52.5946	52.5946	4.3600e-003		52.7036
Worker	0.1070	0.0642	0.6864	2.2000e-003	0.2571	1.5100e-003	0.2586	0.0682	1.3900e-003	0.0696		219.6945	219.6945	5.0800e-003		219.8214
Total	**0.1268**	**0.8823**	**0.8221**	**4.8300e-003**	**0.3206**	**3.8200e-003**	**0.3245**	**0.0858**	**3.6000e-003**	**0.0894**		**498.2722**	**498.2722**	**0.0242**		**498.8763**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

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

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	4.9600e-003	0.1835	0.0391	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.5000e-004	4.0300e-003		52.5946	52.5946	4.3600e-003		52.7036
Worker	0.0838	0.0503	0.5372	1.7200e-003	0.2012	1.1900e-003	0.2024	0.0534	1.0900e-003	0.0545		171.9348	171.9348	3.9700e-003		172.0342
Total	**0.0887**	**0.2338**	**0.5762**	**2.2200e-003**	**0.2140**	**1.5500e-003**	**0.2156**	**0.0571**	**1.4400e-003**	**0.0585**		**224.5295**	**224.5295**	**8.3300e-003**		**224.7377**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**7.0458**	**2.0445**	**9.0903**	**3.8730**	**1.8809**	**5.7539**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

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	4.9600e-003	0.1835	0.0391	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.5000e-004	4.0300e-003		52.5946	52.5946	4.3600e-003		52.7036
Worker	0.0838	0.0503	0.5372	1.7200e-003	0.2012	1.1900e-003	0.2024	0.0534	1.0900e-003	0.0545		171.9348	171.9348	3.9700e-003		172.0342
Total	**0.0887**	**0.2338**	**0.5762**	**2.2200e-003**	**0.2140**	**1.5500e-003**	**0.2156**	**0.0571**	**1.4400e-003**	**0.0585**		**224.5295**	**224.5295**	**8.3300e-003**		**224.7377**

3.4 Grading - 2021

Unmitigated Construction On-Site

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

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	4.9600e-003	0.1835	0.0391	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.5000e-004	4.0300e-003		52.5946	52.5946	4.3600e-003		52.7036
Worker	0.0931	0.0559	0.5969	1.9200e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		191.0387	191.0387	4.4100e-003		191.1491
Total	**0.0980**	**0.2393**	**0.6359**	**2.4200e-003**	**0.2364**	**1.6800e-003**	**0.2380**	**0.0630**	**1.5600e-003**	**0.0645**		**243.6334**	**243.6334**	**8.7700e-003**		**243.8526**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**3.3826**	**1.9853**	**5.3679**	**1.4026**	**1.8265**	**3.2292**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

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	4.9600e-003	0.1835	0.0391	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.5000e-004	4.0300e-003		52.5946	52.5946	4.3600e-003		52.7036
Worker	0.0931	0.0559	0.5969	1.9200e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		191.0387	191.0387	4.4100e-003		191.1491
Total	**0.0980**	**0.2393**	**0.6359**	**2.4200e-003**	**0.2364**	**1.6800e-003**	**0.2380**	**0.0630**	**1.5600e-003**	**0.0645**		**243.6334**	**243.6334**	**8.7700e-003**		**243.8526**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625		2,736.0438	2,736.0438	0.6751		2,752.9212
Total	**2.0228**	**18.7492**	**17.6706**	**0.0288**		**1.0251**	**1.0251**		**0.9625**	**0.9625**		**2,736.0438**	**2,736.0438**	**0.6751**		**2,752.9212**

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	0.3124	11.5595	2.4609	0.0314	0.8068	0.0229	0.8297	0.2323	0.0219	0.2542		3,313.4626	3,313.4626	0.2745		3,320.3238
Worker	1.5074	0.9050	9.6691	0.0311	3.6216	0.0213	3.6429	0.9605	0.0197	0.9801		3,094.8271	3,094.8271	0.0715		3,096.6150
Total	**1.8198**	**12.4645**	**12.1300**	**0.0625**	**4.4284**	**0.0442**	**4.4726**	**1.1928**	**0.0415**	**1.2343**		**6,408.2897**	**6,408.2897**	**0.3460**		**6,416.9388**

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	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625	0.0000	2,736.0438	2,736.0438	0.6751		2,752.9212
Total	**2.0228**	**18.7492**	**17.6706**	**0.0288**		**1.0251**	**1.0251**		**0.9625**	**0.9625**	**0.0000**	**2,736.0438**	**2,736.0438**	**0.6751**		**2,752.9212**

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	0.3124	11.5595	2.4609	0.0314	0.8068	0.0229	0.8297	0.2323	0.0219	0.2542		3,313.4626	3,313.4626	0.2745		3,320.3238
Worker	1.5074	0.9050	9.6691	0.0311	3.6216	0.0213	3.6429	0.9605	0.0197	0.9801		3,094.8271	3,094.8271	0.0715		3,096.6150
Total	**1.8198**	**12.4645**	**12.1300**	**0.0625**	**4.4284**	**0.0442**	**4.4726**	**1.1928**	**0.0415**	**1.2343**		**6,408.2897**	**6,408.2897**	**0.3460**		**6,416.9388**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288
Total	**1.8146**	**16.7670**	**17.4392**	**0.0288**		**0.8645**	**0.8645**		**0.8122**	**0.8122**		**2,737.1520**	**2,737.1520**	**0.6711**		**2,753.9288**

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	0.2917	10.8906	2.2972	0.0311	0.8068	0.0193	0.8260	0.2323	0.0184	0.2507		3,284.5319	3,284.5319	0.2602		3,291.0367
Worker	1.4142	0.8141	8.9049	0.0299	3.6216	0.0208	3.6423	0.9605	0.0191	0.9796		2,981.8980	2,981.8980	0.0643		2,983.5057
Total	**1.7059**	**11.7048**	**11.2022**	**0.0611**	**4.4284**	**0.0400**	**4.4684**	**1.1927**	**0.0375**	**1.2303**		**6,266.4299**	**6,266.4299**	**0.3245**		**6,274.5424**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288
Total	**1.8146**	**16.7670**	**17.4392**	**0.0288**		**0.8645**	**0.8645**		**0.8122**	**0.8122**	**0.0000**	**2,737.1520**	**2,737.1520**	**0.6711**		**2,753.9288**

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	0.2917	10.8906	2.2972	0.0311	0.8068	0.0193	0.8260	0.2323	0.0184	0.2507		3,284.5319	3,284.5319	0.2602		3,291.0367
Worker	1.4142	0.8141	8.9049	0.0299	3.6216	0.0208	3.6423	0.9605	0.0191	0.9796		2,981.8980	2,981.8980	0.0643		2,983.5057
Total	**1.7059**	**11.7048**	**11.2022**	**0.0611**	**4.4284**	**0.0400**	**4.4684**	**1.1927**	**0.0375**	**1.2303**		**6,266.4299**	**6,266.4299**	**0.3245**		**6,274.5424**

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5514	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612		1,103.8302	1,103.8302	0.3570		1,112.7552
Paving	0.2594					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8108**	**5.5624**	**7.2902**	**0.0114**		**0.2840**	**0.2840**		**0.2612**	**0.2612**		**1,103.8302**	**1,103.8302**	**0.3570**		**1,112.7552**

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	4.6300e-003	0.1729	0.0365	4.9000e-004	0.0128	3.1000e-004	0.0131	3.6900e-003	2.9000e-004	3.9800e-003		52.1354	52.1354	4.1300e-003		52.2387
Worker	0.0349	0.0201	0.2199	7.4000e-004	0.0894	5.1000e-004	0.0899	0.0237	4.7000e-004	0.0242		73.6271	73.6271	1.5900e-003		73.6668
Total	**0.0396**	**0.1930**	**0.2563**	**1.2300e-003**	**0.1022**	**8.2000e-004**	**0.1030**	**0.0274**	**7.6000e-004**	**0.0282**		**125.7625**	**125.7625**	**5.7200e-003**		**125.9055**

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	0.5514	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612	0.0000	1,103.8302	1,103.8302	0.3570		1,112.7552
Paving	0.2594					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8108**	**5.5624**	**7.2902**	**0.0114**		**0.2840**	**0.2840**		**0.2612**	**0.2612**	**0.0000**	**1,103.8302**	**1,103.8302**	**0.3570**		**1,112.7552**

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	4.6300e-003	0.1729	0.0365	4.9000e-004	0.0128	3.1000e-004	0.0131	3.6900e-003	2.9000e-004	3.9800e-003		52.1354	52.1354	4.1300e-003		52.2387
Worker	0.0349	0.0201	0.2199	7.4000e-004	0.0894	5.1000e-004	0.0899	0.0237	4.7000e-004	0.0242		73.6271	73.6271	1.5900e-003		73.6668
Total	**0.0396**	**0.1930**	**0.2563**	**1.2300e-003**	**0.1022**	**8.2000e-004**	**0.1030**	**0.0274**	**7.6000e-004**	**0.0282**		**125.7625**	**125.7625**	**5.7200e-003**		**125.9055**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	156.4500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**156.7227**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

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	0.2837	0.1633	1.7865	6.0000e-003	0.7266	4.1700e-003	0.7307	0.1927	3.8400e-003	0.1965		598.2203	598.2203	0.0129		598.5428
Total	**0.2837**	**0.1633**	**1.7865**	**6.0000e-003**	**0.7266**	**4.1700e-003**	**0.7307**	**0.1927**	**3.8400e-003**	**0.1965**		**598.2203**	**598.2203**	**0.0129**		**598.5428**

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	156.4500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**156.7227**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

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	0.2837	0.1633	1.7865	6.0000e-003	0.7266	4.1700e-003	0.7307	0.1927	3.8400e-003	0.1965		598.2203	598.2203	0.0129		598.5428
Total	**0.2837**	**0.1633**	**1.7865**	**6.0000e-003**	**0.7266**	**4.1700e-003**	**0.7307**	**0.1927**	**3.8400e-003**	**0.1965**		**598.2203**	**598.2203**	**0.0129**		**598.5428**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8762	36.9097	26.1259	0.2259	13.9003	0.1824	14.0828	3.7752	0.1729	3.9481		23,486.4036	23,486.4036	0.8945		23,508.7664
Unmitigated	1.8762	36.9097	26.1259	0.2259	13.9003	0.1824	14.0828	3.7752	0.1729	3.9481		23,486.4036	23,486.4036	0.8945		23,508.7664

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	564.02	564.02	564.02	6,277,118	6,277,118
Total	564.02	564.02	564.02	6,277,118	6,277,118

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	8.40	60.00	67.80	0.00	32.20	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Non-Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Unrefrigerated Warehouse-No Rail	0.475764	0.032143	0.162242	0.000000	0.000000	0.054000	0.067000	0.201000	0.001218	0.001012	0.003966	0.000813	0.000842

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003		149.4054	149.4054	2.8600e-003	2.7400e-003	150.2932
NaturalGas Unmitigated	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1802.79	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Total		**0.0194**	**0.1767**	**0.1485**	**1.0600e-003**		**0.0134**	**0.0134**		**0.0134**	**0.0134**		**212.0930**	**212.0930**	**4.0700e-003**	**3.8900e-003**	**213.3533**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.26995	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003		149.4054	149.4054	2.8600e-003	2.7400e-003	150.2932
Total		**0.0137**	**0.1245**	**0.1046**	**7.5000e-004**		**9.4600e-003**	**9.4600e-003**		**9.4600e-003**	**9.4600e-003**		**149.4054**	**149.4054**	**2.8600e-003**	**2.7400e-003**	**150.2932**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Unmitigated	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798

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	0.8573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5762					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.3300e-003	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Total	**7.4408**	**7.2000e-004**	**0.0788**	**1.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**		**0.1686**	**0.1686**	**4.4000e-004**		**0.1798**

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	0.8573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5762					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.3300e-003	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Total	**7.4408**	**7.2000e-004**	**0.0788**	**1.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**		**0.1686**	**0.1686**	**4.4000e-004**		**0.1798**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

CalEEMod Version: CalEEMod.2016.3.2

Date: 7/28/2020 10:26 PM

First Industrial Wharehouse on Rider St. - Riverside-South Coast County, Annual

First Industrial Wharehouse on Rider St.

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	324.15	1000sqft	7.44	324,147.00	0
Other Asphalt Surfaces	86.14	1000sqft	1.98	86,139.00	0
Other Non-Asphalt Surfaces	360.29	1000sqft	8.27	360,289.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE carbon intestity adjusted per 2019 SCE data.

Land Use - Per Plot Plan, includes paved streets along site frontage.

Construction Phase - Per Aplicant

Off-road Equipment - 8hr work day assumed

Off-road Equipment - 8hr work day assumed.

Off-road Equipment - Per Applicant

Off-road Equipment -

Off-road Equipment - Per Applicant

Off-road Equipment -

Trips and VMT - 2 water truck trips are added to Demolition, Site Preperation, Grading and Paving Activities per rule 403.

Demolition - Per engineer.

Vehicle Trips - Per TIA, City of Perris average Non Res trip Length.

Energy Use - Added 0.35 Lighting Energy Intensity to account for parking lot lighting

Construction Off-road Equipment Mitigation - Per rule 403

Water Mitigation -

Waste Mitigation - Per CalRecycle

Fleet Mix - Per TIA

Water And Wastewater - Per Design Considerations and RWUE

Energy Mitigation - 2019 T24

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	300.00	197.00
tblConstructionPhase	NumDays	10.00	20.00
tblEnergyUse	LightingElect	0.00	0.35
tblFleetMix	HHD	0.07	0.20
tblFleetMix	LDA	0.55	0.48
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT2	0.19	0.16
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.05
tblFleetMix	MCY	4.5470e-003	3.9660e-003
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	8.4200e-004
tblFleetMix	MHD	0.02	0.07
tblFleetMix	OBUS	1.3970e-003	1.2180e-003
tblFleetMix	SBUS	9.3200e-004	8.1300e-004
tblFleetMix	UBUS	1.1600e-003	1.0120e-003
tblLandUse	LandUseSquareFeet	324,150.00	324,147.00

tblLandUse	LandUseSquareFeet	86,140.00	86,139.00
tblLandUse	LandUseSquareFeet	360,290.00	360,289.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	CNW_TL	6.90	60.00
tblVehicleTrips	CNW_TTP	41.00	32.20
tblVehicleTrips	CW_TTP	59.00	67.80
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.74
tblVehicleTrips	SU_TR	1.68	1.74
tblVehicleTrips	WD_TR	1.68	1.74
tblWater	IndoorWaterUseRate	74,959,687.50	3,332,450.00
tblWater	OutdoorWaterUseRate	0.00	1,681,391.20

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1585	1.5683	1.1640	2.5500e-003	0.3651	0.0699	0.4350	0.1671	0.0649	0.2320	0.0000	226.3305	226.3305	0.0507	0.0000	227.5974
2022	1.8823	2.6447	2.7088	8.4000e-003	0.3981	0.0849	0.4830	0.1074	0.0798	0.1871	0.0000	763.4954	763.4954	0.0834	0.0000	765.5803
Maximum	**1.8823**	**2.6447**	**2.7088**	**8.4000e-003**	**0.3981**	**0.0849**	**0.4830**	**0.1671**	**0.0798**	**0.2320**	**0.0000**	**763.4954**	**763.4954**	**0.0834**	**0.0000**	**765.5803**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1585	1.5683	1.1640	2.5500e-003	0.1716	0.0699	0.2416	0.0731	0.0649	0.1379	0.0000	226.3303	226.3303	0.0507	0.0000	227.5973
2022	1.8823	2.6447	2.7088	8.4000e-003	0.3981	0.0849	0.4830	0.1074	0.0798	0.1871	0.0000	763.4951	763.4951	0.0834	0.0000	765.5801
Maximum	**1.8823**	**2.6447**	**2.7088**	**8.4000e-003**	**0.3981**	**0.0849**	**0.4830**	**0.1074**	**0.0798**	**0.1871**	**0.0000**	**763.4951**	**763.4951**	**0.0834**	**0.0000**	**765.5801**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**25.35**	**0.00**	**21.07**	**34.27**	**0.00**	**22.45**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2021	11-30-2021	1.2831	1.2831
2	12-1-2021	2-28-2022	1.1019	1.1019
3	3-1-2022	5-31-2022	1.0531	1.0531
4	6-1-2022	8-31-2022	2.2373	2.2373
5	9-1-2022	9-30-2022	0.5650	0.5650
		Highest	2.2373	2.2373

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3575	9.0000e-005	9.8500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0191	0.0191	5.0000e-005	0.0000	0.0204
Energy	3.5500e-003	0.0323	0.0271	1.9000e-004		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	249.9175	249.9175	0.0124	3.0700e-003	251.1419
Mobile	0.3408	6.8015	4.8840	0.0416	2.4901	0.0331	2.5231	0.6773	0.0313	0.7087	0.0000	3,923.9363	3,923.9363	0.1437	0.0000	3,927.5292
Waste						0.0000	0.0000		0.0000	0.0000	61.8514	0.0000	61.8514	3.6553	0.0000	153.2341
Water						0.0000	0.0000		0.0000	0.0000	1.0572	14.9629	16.0202	0.1094	2.7300e-003	19.5697
Total	**1.7019**	**6.8339**	**4.9209**	**0.0418**	**2.4901**	**0.0356**	**2.5256**	**0.6773**	**0.0338**	**0.7111**	**62.9086**	**4,188.8358**	**4,251.7444**	**3.9209**	**5.8000e-003**	**4,351.4952**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3575	9.0000e-005	9.8500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0191	0.0191	5.0000e-005	0.0000	0.0204
Energy	2.5000e-003	0.0227	0.0191	1.4000e-004		1.7300e-003	1.7300e-003		1.7300e-003	1.7300e-003	0.0000	230.8656	230.8656	0.0117	2.7800e-003	231.9873
Mobile	0.3408	6.8015	4.8840	0.0416	2.4901	0.0331	2.5231	0.6773	0.0313	0.7087	0.0000	3,923.9363	3,923.9363	0.1437	0.0000	3,927.5292
Waste						0.0000	0.0000		0.0000	0.0000	23.5035	0.0000	23.5035	1.3890	0.0000	58.2290
Water						0.0000	0.0000		0.0000	0.0000	1.0572	14.9629	16.0202	0.1094	2.7300e-003	19.5697
Total	**1.7009**	**6.8243**	**4.9129**	**0.0418**	**2.4901**	**0.0348**	**2.5249**	**0.6773**	**0.0331**	**0.7104**	**24.5607**	**4,169.7839**	**4,194.3446**	**1.6539**	**5.5100e-003**	**4,237.3355**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.06**	**0.14**	**0.16**	**0.12**	**0.00**	**2.03**	**0.03**	**0.00**	**2.13**	**0.10**	**60.96**	**0.45**	**1.35**	**57.82**	**5.00**	**2.62**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	9/28/2021	5	20	
2	Site Preparation	Site Preparation	9/29/2021	10/26/2021	5	20	
3	Grading	Grading	10/27/2021	12/7/2021	5	30	
4	Building Construction	Building Construction	12/8/2021	9/8/2022	5	197	
5	Paving	Paving	8/12/2022	9/8/2022	5	20	
6	Architectural Coating	Architectural Coating	8/12/2022	9/8/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 10.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 486,221; Non-Residential Outdoor: 162,074; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Forklifts	3	8.00	89	0.20
Demolition	Generator Sets	1	8.00	84	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Demolition	Welders	1	8.00	46	0.45
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41

Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	9	23.00	2.00	58.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	324.00	126.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	65.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.3400e-003	0.0000	6.3400e-003	9.6000e-004	0.0000	9.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.1694	0.1936	2.9000e-004		0.0100	0.0100		9.5400e-003	9.5400e-003	0.0000	25.1287	25.1287	4.8000e-003	0.0000	25.2487
Total	**0.0200**	**0.1694**	**0.1936**	**2.9000e-004**	**6.3400e-003**	**0.0100**	**0.0164**	**9.6000e-004**	**9.5400e-003**	**0.0105**	**0.0000**	**25.1287**	**25.1287**	**4.8000e-003**	**0.0000**	**25.2487**

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	1.4000e-004	6.4400e-003	8.9000e-004	2.0000e-005	5.0000e-004	2.0000e-005	5.2000e-004	1.4000e-004	2.0000e-005	1.6000e-004	0.0000	2.0807	2.0807	1.3000e-004	0.0000	2.0839
Vendor	5.0000e-005	1.8600e-003	3.6000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4880	0.4880	4.0000e-005	0.0000	0.4889
Worker	9.9000e-004	6.6000e-004	7.2400e-003	2.0000e-005	2.5300e-003	2.0000e-005	2.5400e-003	6.7000e-004	1.0000e-005	6.9000e-004	0.0000	2.0444	2.0444	5.0000e-005	0.0000	2.0455
Total	**1.1800e-003**	**8.9600e-003**	**8.4900e-003**	**5.0000e-005**	**3.1600e-003**	**4.0000e-005**	**3.1900e-003**	**8.5000e-004**	**3.0000e-005**	**8.9000e-004**	**0.0000**	**4.6130**	**4.6130**	**2.2000e-004**	**0.0000**	**4.6183**

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					2.4700e-003	0.0000	2.4700e-003	3.7000e-004	0.0000	3.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.1694	0.1936	2.9000e-004		0.0100	0.0100		9.5400e-003	9.5400e-003	0.0000	25.1287	25.1287	4.8000e-003	0.0000	25.2486
Total	**0.0200**	**0.1694**	**0.1936**	**2.9000e-004**	**2.4700e-003**	**0.0100**	**0.0125**	**3.7000e-004**	**9.5400e-003**	**9.9100e-003**	**0.0000**	**25.1287**	**25.1287**	**4.8000e-003**	**0.0000**	**25.2486**

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	1.4000e-004	6.4400e-003	8.9000e-004	2.0000e-005	5.0000e-004	2.0000e-005	5.2000e-004	1.4000e-004	2.0000e-005	1.6000e-004	0.0000	2.0807	2.0807	1.3000e-004	0.0000	2.0839
Vendor	5.0000e-005	1.8600e-003	3.6000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4880	0.4880	4.0000e-005	0.0000	0.4889
Worker	9.9000e-004	6.6000e-004	7.2400e-003	2.0000e-005	2.5300e-003	2.0000e-005	2.5400e-003	6.7000e-004	1.0000e-005	6.9000e-004	0.0000	2.0444	2.0444	5.0000e-005	0.0000	2.0455
Total	**1.1800e-003**	**8.9600e-003**	**8.4900e-003**	**5.0000e-005**	**3.1600e-003**	**4.0000e-005**	**3.1900e-003**	**8.5000e-004**	**3.0000e-005**	**8.9000e-004**	**0.0000**	**4.6130**	**4.6130**	**2.2000e-004**	**0.0000**	**4.6183**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
Total	**0.0389**	**0.4050**	**0.2115**	**3.8000e-004**	**0.1807**	**0.0204**	**0.2011**	**0.0993**	**0.0188**	**0.1181**	**0.0000**	**33.4357**	**33.4357**	**0.0108**	**0.0000**	**33.7061**

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	5.0000e-005	1.8600e-003	3.6000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4880	0.4880	4.0000e-005	0.0000	0.4889
Worker	7.7000e-004	5.2000e-004	5.6700e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.5999	1.5999	4.0000e-005	0.0000	1.6009
Total	**8.2000e-004**	**2.3800e-003**	**6.0300e-003**	**3.0000e-005**	**2.1100e-003**	**1.0000e-005**	**2.1200e-003**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**0.0000**	**2.0879**	**2.0879**	**8.0000e-005**	**0.0000**	**2.0897**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0705	0.0000	0.0705	0.0387	0.0000	0.0387	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
Total	**0.0389**	**0.4050**	**0.2115**	**3.8000e-004**	**0.0705**	**0.0204**	**0.0909**	**0.0387**	**0.0188**	**0.0575**	**0.0000**	**33.4357**	**33.4357**	**0.0108**	**0.0000**	**33.7060**

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	5.0000e-005	1.8600e-003	3.6000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4880	0.4880	4.0000e-005	0.0000	0.4889
Worker	7.7000e-004	5.2000e-004	5.6700e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.5999	1.5999	4.0000e-005	0.0000	1.6009
Total	**8.2000e-004**	**2.3800e-003**	**6.0300e-003**	**3.0000e-005**	**2.1100e-003**	**1.0000e-005**	**2.1200e-003**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**0.0000**	**2.0879**	**2.0879**	**8.0000e-005**	**0.0000**	**2.0897**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7425	81.7425	0.0264	0.0000	82.4034
Total	**0.0629**	**0.6960**	**0.4632**	**9.3000e-004**	**0.1301**	**0.0298**	**0.1599**	**0.0540**	**0.0274**	**0.0814**	**0.0000**	**81.7425**	**81.7425**	**0.0264**	**0.0000**	**82.4034**

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	7.0000e-005	2.8000e-003	5.4000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7319	0.7319	6.0000e-005	0.0000	0.7333
Worker	1.2900e-003	8.7000e-004	9.4400e-003	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	8.9000e-004	0.0000	2.6665	2.6665	6.0000e-005	0.0000	2.6681
Total	**1.3600e-003**	**3.6700e-003**	**9.9800e-003**	**4.0000e-005**	**3.4900e-003**	**3.0000e-005**	**3.5100e-003**	**9.3000e-004**	**3.0000e-005**	**9.5000e-004**	**0.0000**	**3.3985**	**3.3985**	**1.2000e-004**	**0.0000**	**3.4014**

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					0.0507	0.0000	0.0507	0.0210	0.0000	0.0210	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7424	81.7424	0.0264	0.0000	82.4033
Total	**0.0629**	**0.6960**	**0.4632**	**9.3000e-004**	**0.0507**	**0.0298**	**0.0805**	**0.0210**	**0.0274**	**0.0484**	**0.0000**	**81.7424**	**81.7424**	**0.0264**	**0.0000**	**82.4033**

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	7.0000e-005	2.8000e-003	5.4000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7319	0.7319	6.0000e-005	0.0000	0.7333
Worker	1.2900e-003	8.7000e-004	9.4400e-003	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	8.9000e-004	0.0000	2.6665	2.6665	6.0000e-005	0.0000	2.6681
Total	**1.3600e-003**	**3.6700e-003**	**9.9800e-003**	**4.0000e-005**	**3.4900e-003**	**3.0000e-005**	**3.5100e-003**	**9.3000e-004**	**3.0000e-005**	**9.5000e-004**	**0.0000**	**3.3985**	**3.3985**	**1.2000e-004**	**0.0000**	**3.4014**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0182	0.1687	0.1590	2.6000e-004		9.2300e-003	9.2300e-003		8.6600e-003	8.6600e-003	0.0000	22.3389	22.3389	5.5100e-003	0.0000	22.4767
Total	**0.0182**	**0.1687**	**0.1590**	**2.6000e-004**		**9.2300e-003**	**9.2300e-003**		**8.6600e-003**	**8.6600e-003**	**0.0000**	**22.3389**	**22.3389**	**5.5100e-003**	**0.0000**	**22.4767**

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	2.7100e-003	0.1057	0.0203	2.9000e-004	7.1600e-003	2.0000e-004	7.3600e-003	2.0700e-003	1.9000e-004	2.2600e-003	0.0000	27.6666	27.6666	2.1100e-003	0.0000	27.7193
Worker	0.0125	8.4200e-003	0.0918	2.9000e-004	0.0321	1.9000e-004	0.0322	8.5100e-003	1.8000e-004	8.6900e-003	0.0000	25.9188	25.9188	6.0000e-004	0.0000	25.9339
Total	**0.0152**	**0.1142**	**0.1121**	**5.8000e-004**	**0.0392**	**3.9000e-004**	**0.0396**	**0.0106**	**3.7000e-004**	**0.0110**	**0.0000**	**53.5853**	**53.5853**	**2.7100e-003**	**0.0000**	**53.6532**

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	0.0182	0.1687	0.1590	2.6000e-004		9.2300e-003	9.2300e-003		8.6600e-003	8.6600e-003	0.0000	22.3389	22.3389	5.5100e-003	0.0000	22.4767
Total	**0.0182**	**0.1687**	**0.1590**	**2.6000e-004**		**9.2300e-003**	**9.2300e-003**		**8.6600e-003**	**8.6600e-003**	**0.0000**	**22.3389**	**22.3389**	**5.5100e-003**	**0.0000**	**22.4767**

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	2.7100e-003	0.1057	0.0203	2.9000e-004	7.1600e-003	2.0000e-004	7.3600e-003	2.0700e-003	1.9000e-004	2.2600e-003	0.0000	27.6666	27.6666	2.1100e-003	0.0000	27.7193
Worker	0.0125	8.4200e-003	0.0918	2.9000e-004	0.0321	1.9000e-004	0.0322	8.5100e-003	1.8000e-004	8.6900e-003	0.0000	25.9188	25.9188	6.0000e-004	0.0000	25.9339
Total	**0.0152**	**0.1142**	**0.1121**	**5.8000e-004**	**0.0392**	**3.9000e-004**	**0.0396**	**0.0106**	**3.7000e-004**	**0.0110**	**0.0000**	**53.5853**	**53.5853**	**2.7100e-003**	**0.0000**	**53.6532**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1624	1.5007	1.5608	2.5800e-003		0.0774	0.0774		0.0727	0.0727	0.0000	222.2377	222.2377	0.0545	0.0000	223.5998
Total	**0.1624**	**1.5007**	**1.5608**	**2.5800e-003**		**0.0774**	**0.0774**		**0.0727**	**0.0727**	**0.0000**	**222.2377**	**222.2377**	**0.0545**	**0.0000**	**223.5998**

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	0.0251	0.9906	0.1884	2.8500e-003	0.0712	1.6900e-003	0.0729	0.0206	1.6200e-003	0.0222	0.0000	272.7619	272.7619	0.0199	0.0000	273.2590
Worker	0.1165	0.0754	0.8409	2.7500e-003	0.3187	1.8600e-003	0.3206	0.0846	1.7100e-003	0.0864	0.0000	248.3421	248.3421	5.4000e-003	0.0000	248.4770
Total	**0.1416**	**1.0660**	**1.0294**	**5.6000e-003**	**0.3900**	**3.5500e-003**	**0.3935**	**0.1052**	**3.3300e-003**	**0.1085**	**0.0000**	**521.1040**	**521.1040**	**0.0253**	**0.0000**	**521.7360**

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	0.1624	1.5007	1.5608	2.5800e-003		0.0774	0.0774		0.0727	0.0727	0.0000	222.2374	222.2374	0.0545	0.0000	223.5996
Total	**0.1624**	**1.5007**	**1.5608**	**2.5800e-003**		**0.0774**	**0.0774**		**0.0727**	**0.0727**	**0.0000**	**222.2374**	**222.2374**	**0.0545**	**0.0000**	**223.5996**

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	0.0251	0.9906	0.1884	2.8500e-003	0.0712	1.6900e-003	0.0729	0.0206	1.6200e-003	0.0222	0.0000	272.7619	272.7619	0.0199	0.0000	273.2590
Worker	0.1165	0.0754	0.8409	2.7500e-003	0.3187	1.8600e-003	0.3206	0.0846	1.7100e-003	0.0864	0.0000	248.3421	248.3421	5.4000e-003	0.0000	248.4770
Total	**0.1416**	**1.0660**	**1.0294**	**5.6000e-003**	**0.3900**	**3.5500e-003**	**0.3935**	**0.1052**	**3.3300e-003**	**0.1085**	**0.0000**	**521.1040**	**521.1040**	**0.0253**	**0.0000**	**521.7360**

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5100e-003	0.0556	0.0729	1.1000e-004		2.8400e-003	2.8400e-003		2.6100e-003	2.6100e-003	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0948
Paving	2.5900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.1000e-003**	**0.0556**	**0.0729**	**1.1000e-004**		**2.8400e-003**	**2.8400e-003**		**2.6100e-003**	**2.6100e-003**	**0.0000**	**10.0138**	**10.0138**	**3.2400e-003**	**0.0000**	**10.0948**

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	4.0000e-005	1.7600e-003	3.3000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4838	0.4838	4.0000e-005	0.0000	0.4846
Worker	3.2000e-004	2.1000e-004	2.3200e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.8000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.6851	0.6851	1.0000e-005	0.0000	0.6855
Total	**3.6000e-004**	**1.9700e-003**	**2.6500e-003**	**2.0000e-005**	**1.0100e-003**	**1.0000e-005**	**1.0100e-003**	**2.7000e-004**	**0.0000**	**2.8000e-004**	**0.0000**	**1.1689**	**1.1689**	**5.0000e-005**	**0.0000**	**1.1701**

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	5.5100e-003	0.0556	0.0729	1.1000e-004		2.8400e-003	2.8400e-003		2.6100e-003	2.6100e-003	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0947
Paving	2.5900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.1000e-003**	**0.0556**	**0.0729**	**1.1000e-004**		**2.8400e-003**	**2.8400e-003**		**2.6100e-003**	**2.6100e-003**	**0.0000**	**10.0138**	**10.0138**	**3.2400e-003**	**0.0000**	**10.0947**

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	4.0000e-005	1.7600e-003	3.3000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4838	0.4838	4.0000e-005	0.0000	0.4846
Worker	3.2000e-004	2.1000e-004	2.3200e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.8000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.6851	0.6851	1.0000e-005	0.0000	0.6855
Total	**3.6000e-004**	**1.9700e-003**	**2.6500e-003**	**2.0000e-005**	**1.0100e-003**	**1.0000e-005**	**1.0100e-003**	**2.7000e-004**	**0.0000**	**2.8000e-004**	**0.0000**	**1.1689**	**1.1689**	**5.0000e-005**	**0.0000**	**1.1701**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5645					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7300e-003	0.0188	0.0242	4.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003	0.0000	3.4043	3.4043	2.2000e-004	0.0000	3.4099
Total	**1.5672**	**0.0188**	**0.0242**	**4.0000e-005**		**1.0900e-003**	**1.0900e-003**		**1.0900e-003**	**1.0900e-003**	**0.0000**	**3.4043**	**3.4043**	**2.2000e-004**	**0.0000**	**3.4099**

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	2.6100e-003	1.6900e-003	0.0189	6.0000e-005	7.1400e-003	4.0000e-005	7.1900e-003	1.9000e-003	4.0000e-005	1.9400e-003	0.0000	5.5667	5.5667	1.2000e-004	0.0000	5.5697
Total	**2.6100e-003**	**1.6900e-003**	**0.0189**	**6.0000e-005**	**7.1400e-003**	**4.0000e-005**	**7.1900e-003**	**1.9000e-003**	**4.0000e-005**	**1.9400e-003**	**0.0000**	**5.5667**	**5.5667**	**1.2000e-004**	**0.0000**	**5.5697**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5645					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7300e-003	0.0188	0.0242	4.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003	0.0000	3.4043	3.4043	2.2000e-004	0.0000	3.4099
Total	**1.5672**	**0.0188**	**0.0242**	**4.0000e-005**		**1.0900e-003**	**1.0900e-003**		**1.0900e-003**	**1.0900e-003**	**0.0000**	**3.4043**	**3.4043**	**2.2000e-004**	**0.0000**	**3.4099**

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	2.6100e-003	1.6900e-003	0.0189	6.0000e-005	7.1400e-003	4.0000e-005	7.1900e-003	1.9000e-003	4.0000e-005	1.9400e-003	0.0000	5.5667	5.5667	1.2000e-004	0.0000	5.5697
Total	**2.6100e-003**	**1.6900e-003**	**0.0189**	**6.0000e-005**	**7.1400e-003**	**4.0000e-005**	**7.1900e-003**	**1.9000e-003**	**4.0000e-005**	**1.9400e-003**	**0.0000**	**5.5667**	**5.5667**	**1.2000e-004**	**0.0000**	**5.5697**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3408	6.8015	4.8840	0.0416	2.4901	0.0331	2.5231	0.6773	0.0313	0.7087	0.0000	3,923.9363	3,923.9363	0.1437	0.0000	3,927.5292
Unmitigated	0.3408	6.8015	4.8840	0.0416	2.4901	0.0331	2.5231	0.6773	0.0313	0.7087	0.0000	3,923.9363	3,923.9363	0.1437	0.0000	3,927.5292

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	564.02	564.02	564.02	6,277,118	6,277,118
Total	564.02	564.02	564.02	6,277,118	6,277,118

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	8.40	60.00	67.80	0.00	32.20	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Non-Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Unrefrigerated Warehouse-No Rail	0.475764	0.032143	0.162242	0.000000	0.000000	0.054000	0.067000	0.201000	0.001218	0.001012	0.003966	0.000813	0.000842

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	206.1298	206.1298	0.0113	2.3300e-003	207.1045
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	214.8031	214.8031	0.0117	2.4300e-003	215.8189
NaturalGas Mitigated	2.5000e-003	0.0227	0.0191	1.4000e-004		1.7300e-003	1.7300e-003		1.7300e-003	1.7300e-003	0.0000	24.7357	24.7357	4.7000e-004	4.5000e-004	24.8827
NaturalGas Unmitigated	3.5500e-003	0.0323	0.0271	1.9000e-004		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	35.1144	35.1144	6.7000e-004	6.4000e-004	35.3230

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	658018	3.5500e-003	0.0323	0.0271	1.9000e-004		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	35.1144	35.1144	6.7000e-004	6.4000e-004	35.3230
Total		**3.5500e-003**	**0.0323**	**0.0271**	**1.9000e-004**		**2.4500e-003**	**2.4500e-003**		**2.4500e-003**	**2.4500e-003**	**0.0000**	**35.1144**	**35.1144**	**6.7000e-004**	**6.4000e-004**	**35.3230**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	463530	2.5000e-003	0.0227	0.0191	1.4000e-004		1.7300e-003	1.7300e-003		1.7300e-003	1.7300e-003	0.0000	24.7357	24.7357	4.7000e-004	4.5000e-004	24.8827
Total		**2.5000e-003**	**0.0227**	**0.0191**	**1.4000e-004**		**1.7300e-003**	**1.7300e-003**		**1.7300e-003**	**1.7300e-003**	**0.0000**	**24.7357**	**24.7357**	**4.7000e-004**	**4.5000e-004**	**24.8827**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	126101	30.3976	1.6600e-003	3.4000e-004	30.5413
Unrefrigerated Warehouse-No Rail	764987	184.4056	0.0101	2.0800e-003	185.2775
Total		**214.8031**	**0.0117**	**2.4200e-003**	**215.8189**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	126101	30.3976	1.6600e-003	3.4000e-004	30.5413
Unrefrigerated Warehouse-No Rail	729007	175.7322	9.5900e-003	1.9800e-003	176.5632
Total		**206.1298**	**0.0113**	**2.3200e-003**	**207.1045**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3575	9.0000e-005	9.8500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0191	0.0191	5.0000e-005	0.0000	0.0204
Unmitigated	1.3575	9.0000e-005	9.8500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0191	0.0191	5.0000e-005	0.0000	0.0204

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	0.1565					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2002					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.2000e-004	9.0000e-005	9.8500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0191	0.0191	5.0000e-005	0.0000	0.0204
Total	**1.3575**	**9.0000e-005**	**9.8500e-003**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.0191**	**0.0191**	**5.0000e-005**	**0.0000**	**0.0204**

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	0.1565					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2002					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.2000e-004	9.0000e-005	9.8500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0191	0.0191	5.0000e-005	0.0000	0.0204
Total	**1.3575**	**9.0000e-005**	**9.8500e-003**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.0191**	**0.0191**	**5.0000e-005**	**0.0000**	**0.0204**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.0202	0.1094	2.7300e-003	19.5697
Unmitigated	16.0202	0.1094	2.7300e-003	19.5697

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	3.33245 / 1.68139	16.0202	0.1094	2.7300e-003	19.5697
Total		**16.0202**	**0.1094**	**2.7300e-003**	**19.5697**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	3.33245 / 1.68139	16.0202	0.1094	2.7300e-003	19.5697
Total		**16.0202**	**0.1094**	**2.7300e-003**	**19.5697**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	23.5035	1.3890	0.0000	58.2290
Unmitigated	61.8514	3.6553	0.0000	153.2341

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	304.7	61.8514	3.6553	0.0000	153.2341
Total		**61.8514**	**3.6553**	**0.0000**	**153.2341**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	115.786	23.5035	1.3890	0.0000	58.2290
Total		**23.5035**	**1.3890**	**0.0000**	**58.2290**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

CalEEMod Version: CalEEMod.2016.3.2

Date: 7/29/2020 11:33 AM

VOC Mitigation - First Industrial Wharehouse on Rider St.

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	324.15	1000sqft	7.44	324,147.00	0
Other Asphalt Surfaces	86.14	1000sqft	1.98	86,139.00	0
Other Non-Asphalt Surfaces	360.29	1000sqft	8.27	360,289.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE carbon intestity adjusted per 2019 SCE data.

Land Use - Per Plot Plan, includes paved streets along site frontage.

Construction Phase - Per Aplicant

Off-road Equipment - 8hr work day assumed

Off-road Equipment - 8hr work day assumed.

Trips and VMT - Not Modeled

Demolition - Per engineer.

Architectural Coating - VOC mitigation 10g/L

Vehicle Trips - Not Modeled

Energy Use - Not Modeled

Water And Wastewater - Not Modeled

Construction Off-road Equipment Mitigation - Not Modeled

Energy Mitigation - Not Modeled

Water Mitigation -

Waste Mitigation - Not Modeled

Fleet Mix - Per TIA

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblEnergyUse	LightingElect	0.00	0.35
tblFleetMix	HHD	0.07	0.20
tblFleetMix	LDA	0.55	0.48
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT2	0.19	0.16
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.05
tblFleetMix	MCY	4.5470e-003	3.9660e-003
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	8.4200e-004
tblFleetMix	MHD	0.02	0.07
tblFleetMix	OBUS	1.3970e-003	1.2180e-003
tblFleetMix	SBUS	9.3200e-004	8.1300e-004
tblFleetMix	UBUS	1.1600e-003	1.0120e-003
tblLandUse	LandUseSquareFeet	324,150.00	324,147.00
tblLandUse	LandUseSquareFeet	86,140.00	86,139.00
tblLandUse	LandUseSquareFeet	360,290.00	360,289.00
tblOffRoadEquipment	UsageHours	6.00	8.00

tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblVehicleTrips	CNW_TL	6.90	60.00
tblVehicleTrips	CNW_TTP	41.00	32.20
tblVehicleTrips	CW_TTP	59.00	67.80
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.74
tblVehicleTrips	SU_TR	1.68	1.74
tblVehicleTrips	WD_TR	1.68	1.74
tblWater	IndoorWaterUseRate	74,959,687.50	3,332,450.00
tblWater	OutdoorWaterUseRate	0.00	1,681,391.20

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					
2022	21.7929	2.0360	4.6347	0.0107	0.7266	0.1131	0.8397	0.1927	0.1128	0.3055	0.0000	1,042.0640	1,042.0640	0.0393	0.0000	1,043.0454
Maximum	**21.7929**	**2.0360**	**4.6347**	**0.0107**	**0.7266**	**0.1131**	**0.8397**	**0.1927**	**0.1128**	**0.3055**	**0.0000**	**1,042.0640**	**1,042.0640**	**0.0393**	**0.0000**	**1,043.0454**

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					
2022	21.7929	2.0360	4.6347	0.0107	0.7266	0.1131	0.8397	0.1927	0.1128	0.3055	0.0000	1,042.0640	1,042.0640	0.0393	0.0000	1,043.0454
Maximum	**21.7929**	**2.0360**	**4.6347**	**0.0107**	**0.7266**	**0.1131**	**0.8397**	**0.1927**	**0.1128**	**0.3055**	**0.0000**	**1,042.0640**	**1,042.0640**	**0.0393**	**0.0000**	**1,043.0454**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	8/12/2022	9/8/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 10.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 486,221; Non-Residential Outdoor: 162,074; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	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
Architectural Coating	1	65.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.2319					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**21.5046**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

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	0.2883	0.1580	2.2166	6.6900e-003	0.7266	4.1700e-003	0.7307	0.1927	3.8400e-003	0.1965		666.7999	666.7999	0.0148		667.1705
Total	**0.2883**	**0.1580**	**2.2166**	**6.6900e-003**	**0.7266**	**4.1700e-003**	**0.7307**	**0.1927**	**3.8400e-003**	**0.1965**		**666.7999**	**666.7999**	**0.0148**		**667.1705**

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	21.2319					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**21.5046**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

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	0.2883	0.1580	2.2166	6.6900e-003	0.7266	4.1700e-003	0.7307	0.1927	3.8400e-003	0.1965		666.7999	666.7999	0.0148		667.1705
Total	**0.2883**	**0.1580**	**2.2166**	**6.6900e-003**	**0.7266**	**4.1700e-003**	**0.7307**	**0.1927**	**3.8400e-003**	**0.1965**		**666.7999**	**666.7999**	**0.0148**		**667.1705**

CalEEMod Version: CalEEMod.2016.3.2

Date: 7/29/2020 11:32 AM

VOC Mitigation - First Industrial Wharehouse on Rider St.

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	324.15	1000sqft	7.44	324,147.00	0
Other Asphalt Surfaces	86.14	1000sqft	1.98	86,139.00	0
Other Non-Asphalt Surfaces	360.29	1000sqft	8.27	360,289.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE carbon intestity adjusted per 2019 SCE data.

Land Use - Per Plot Plan, includes paved streets along site frontage.

Construction Phase - Per Aplicant

Off-road Equipment - 8hr work day assumed

Off-road Equipment - 8hr work day assumed.

Trips and VMT - Not Modeled

Demolition - Per engineer.

Architectural Coating - VOC mitigation 10g/L

Vehicle Trips - Not Modeled

Energy Use - Not Modeled

Water And Wastewater - Not Modeled

Construction Off-road Equipment Mitigation - Not Modeled

Energy Mitigation - Not Modeled

Water Mitigation -

Waste Mitigation - Not Modeled

Fleet Mix - Per TIA

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblEnergyUse	LightingElect	0.00	0.35
tblFleetMix	HHD	0.07	0.20
tblFleetMix	LDA	0.55	0.48
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT2	0.19	0.16
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.05
tblFleetMix	MCY	4.5470e-003	3.9660e-003
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	8.4200e-004
tblFleetMix	MHD	0.02	0.07
tblFleetMix	OBUS	1.3970e-003	1.2180e-003
tblFleetMix	SBUS	9.3200e-004	8.1300e-004
tblFleetMix	UBUS	1.1600e-003	1.0120e-003
tblLandUse	LandUseSquareFeet	324,150.00	324,147.00
tblLandUse	LandUseSquareFeet	86,140.00	86,139.00
tblLandUse	LandUseSquareFeet	360,290.00	360,289.00
tblOffRoadEquipment	UsageHours	6.00	8.00

tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblVehicleTrips	CNW_TL	6.90	60.00
tblVehicleTrips	CNW_TTP	41.00	32.20
tblVehicleTrips	CW_TTP	59.00	67.80
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.74
tblVehicleTrips	SU_TR	1.68	1.74
tblVehicleTrips	WD_TR	1.68	1.74
tblWater	IndoorWaterUseRate	74,959,687.50	3,332,450.00
tblWater	OutdoorWaterUseRate	0.00	1,681,391.20

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					
2022	21.7883	2.0413	4.2046	9.9600e-003	0.7266	0.1131	0.8397	0.1927	0.1128	0.3055	0.0000	973.4843	973.4843	0.0373	0.0000	974.4177
Maximum	**21.7883**	**2.0413**	**4.2046**	**9.9600e-003**	**0.7266**	**0.1131**	**0.8397**	**0.1927**	**0.1128**	**0.3055**	**0.0000**	**973.4843**	**973.4843**	**0.0373**	**0.0000**	**974.4177**

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					
2022	21.7883	2.0413	4.2046	9.9600e-003	0.7266	0.1131	0.8397	0.1927	0.1128	0.3055	0.0000	973.4843	973.4843	0.0373	0.0000	974.4177
Maximum	**21.7883**	**2.0413**	**4.2046**	**9.9600e-003**	**0.7266**	**0.1131**	**0.8397**	**0.1927**	**0.1128**	**0.3055**	**0.0000**	**973.4843**	**973.4843**	**0.0373**	**0.0000**	**974.4177**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	8/12/2022	9/8/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 10.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 486,221; Non-Residential Outdoor: 162,074; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	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
Architectural Coating	1	65.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.2319					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**21.5046**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

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	0.2837	0.1633	1.7865	6.0000e-003	0.7266	4.1700e-003	0.7307	0.1927	3.8400e-003	0.1965		598.2203	598.2203	0.0129		598.5428
Total	**0.2837**	**0.1633**	**1.7865**	**6.0000e-003**	**0.7266**	**4.1700e-003**	**0.7307**	**0.1927**	**3.8400e-003**	**0.1965**		**598.2203**	**598.2203**	**0.0129**		**598.5428**

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	21.2319					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**21.5046**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

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	0.2837	0.1633	1.7865	6.0000e-003	0.7266	4.1700e-003	0.7307	0.1927	3.8400e-003	0.1965		598.2203	598.2203	0.0129		598.5428
Total	**0.2837**	**0.1633**	**1.7865**	**6.0000e-003**	**0.7266**	**4.1700e-003**	**0.7307**	**0.1927**	**3.8400e-003**	**0.1965**		**598.2203**	**598.2203**	**0.0129**		**598.5428**

First Industrial Wharehouse on Rider St.

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	324.15	1000sqft	7.44	324,147.00	0
Other Asphalt Surfaces	86.14	1000sqft	1.98	86,139.00	0
Other Non-Asphalt Surfaces	360.29	1000sqft	8.27	360,289.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

First Industrial Wharehouse on Rider St. - Riverside-South Coast County, Summer

Project Characteristics - SCE carbon intestity adjusted per 2019 SCE data.

Land Use - Per Plot Plan, includes paved streets along site frontage.

Construction Phase - not modeled

Off-road Equipment - 8hr work day assumed

Off-road Equipment - not modeled

Trips and VMT - not modeled

Demolition -

Vehicle Trips - truck trip rate er TIA, onsite trup length = 0.29 mi

Energy Use -

Water And Wastewater - not modeled

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix - Per TIA

Solid Waste - not modeled

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblFleetMix	HHD	0.07	0.63
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.16
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00

tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.21
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	324,150.00	324,147.00
tblLandUse	LandUseSquareFeet	86,140.00	86,139.00
tblLandUse	LandUseSquareFeet	360,290.00	360,289.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblVehicleTrips	CNW_TL	6.90	0.29
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.56
tblVehicleTrips	SU_TR	1.68	0.56
tblVehicleTrips	WD_TR	1.68	0.56
tblWater	IndoorWaterUseRate	74,959,687.50	3,332,450.00
tblWater	OutdoorWaterUseRate	0.00	1,681,391.20

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Energy	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Mobile	0.2565	12.7823	1.4912	0.0177	0.0472	3.8300e-003	0.0510	0.0133	3.6600e-003	0.0170		1,866.5205	1,866.5205	0.3498		1,875.2657
Total	**7.7167**	**12.9598**	**1.7185**	**0.0187**	**0.0472**	**0.0175**	**0.0647**	**0.0133**	**0.0174**	**0.0307**		**2,078.7821**	**2,078.7821**	**0.3543**	**3.8900e-003**	**2,088.7988**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Energy	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Mobile	0.2565	12.7823	1.4912	0.0177	0.0472	3.8300e-003	0.0510	0.0133	3.6600e-003	0.0170		1,866.5205	1,866.5205	0.3498		1,875.2657
Total	**7.7167**	**12.9598**	**1.7185**	**0.0187**	**0.0472**	**0.0175**	**0.0647**	**0.0133**	**0.0174**	**0.0307**		**2,078.7821**	**2,078.7821**	**0.3543**	**3.8900e-003**	**2,088.7988**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	8/31/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 10.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Forklifts	0	8.00	89	0.20
Demolition	Generator Sets	0	8.00	84	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demolition	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

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

3.2 Demolition - 2021

Unmitigated Construction Off-Site

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

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2565	12.7823	1.4912	0.0177	0.0472	3.8300e-003	0.0510	0.0133	3.6600e-003	0.0170		1,866.5205	1,866.5205	0.3498		1,875.2657
Unmitigated	0.2565	12.7823	1.4912	0.0177	0.0472	3.8300e-003	0.0510	0.0133	3.6600e-003	0.0170		1,866.5205	1,866.5205	0.3498		1,875.2657

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	181.52	181.52	181.52	19,162	19,162
Total	181.52	181.52	181.52	19,162	19,162

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	0.29	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Non-Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.161000	0.214000	0.625000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
NaturalGas Unmitigated	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1802.79	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Total		**0.0194**	**0.1767**	**0.1485**	**1.0600e-003**		**0.0134**	**0.0134**		**0.0134**	**0.0134**		**212.0930**	**212.0930**	**4.0700e-003**	**3.8900e-003**	**213.3533**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.80279	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Total		**0.0194**	**0.1767**	**0.1485**	**1.0600e-003**		**0.0134**	**0.0134**		**0.0134**	**0.0134**		**212.0930**	**212.0930**	**4.0700e-003**	**3.8900e-003**	**213.3533**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Unmitigated	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798

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	0.8573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5762					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.3300e-003	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Total	**7.4408**	**7.2000e-004**	**0.0788**	**1.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**		**0.1686**	**0.1686**	**4.4000e-004**		**0.1798**

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	0.8573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5762					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.3300e-003	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Total	**7.4408**	**7.2000e-004**	**0.0788**	**1.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**		**0.1686**	**0.1686**	**4.4000e-004**		**0.1798**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

First Industrial Wharehouse on Rider St.

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	324.15	1000sqft	7.44	324,147.00	0
Other Asphalt Surfaces	86.14	1000sqft	1.98	86,139.00	0
Other Non-Asphalt Surfaces	360.29	1000sqft	8.27	360,289.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

First Industrial Wharehouse on Rider St. - Riverside-South Coast County, Winter

Project Characteristics - SCE carbon intestity adjusted per 2019 SCE data.

Land Use - Per Plot Plan, includes paved streets along site frontage.

Construction Phase - not modeled

Off-road Equipment - 8hr work day assumed

Off-road Equipment - not modeled

Trips and VMT - not modeled

Demolition -

Vehicle Trips - truck trip rate er TIA, onsite trup length = 0.29 mi

Energy Use -

Water And Wastewater - not modeled

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix - Per TIA

Solid Waste - not modeled

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblFleetMix	HHD	0.07	0.63
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.16
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00

tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.21
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	324,150.00	324,147.00
tblLandUse	LandUseSquareFeet	86,140.00	86,139.00
tblLandUse	LandUseSquareFeet	360,290.00	360,289.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblVehicleTrips	CNW_TL	6.90	0.29
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.56
tblVehicleTrips	SU_TR	1.68	0.56
tblVehicleTrips	WD_TR	1.68	0.56
tblWater	IndoorWaterUseRate	74,959,687.50	3,332,450.00
tblWater	OutdoorWaterUseRate	0.00	1,681,391.20

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Energy	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Mobile	0.2852	12.3181	2.0671	0.0155	0.0472	4.8500e-003	0.0520	0.0133	4.6400e-003	0.0179		1,637.5260	1,637.5260	0.3977		1,647.4673
Total	**7.7455**	**12.4956**	**2.2944**	**0.0166**	**0.0472**	**0.0186**	**0.0658**	**0.0133**	**0.0184**	**0.0317**		**1,849.7876**	**1,849.7876**	**0.4022**	**3.8900e-003**	**1,861.0003**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Energy	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Mobile	0.2852	12.3181	2.0671	0.0155	0.0472	4.8500e-003	0.0520	0.0133	4.6400e-003	0.0179		1,637.5260	1,637.5260	0.3977		1,647.4673
Total	**7.7455**	**12.4956**	**2.2944**	**0.0166**	**0.0472**	**0.0186**	**0.0658**	**0.0133**	**0.0184**	**0.0317**		**1,849.7876**	**1,849.7876**	**0.4022**	**3.8900e-003**	**1,861.0003**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	8/31/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 10.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Forklifts	0	8.00	89	0.20
Demolition	Generator Sets	0	8.00	84	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demolition	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

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

3.2 Demolition - 2021

Unmitigated Construction Off-Site

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

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2852	12.3181	2.0671	0.0155	0.0472	4.8500e-003	0.0520	0.0133	4.6400e-003	0.0179		1,637.5260	1,637.5260	0.3977		1,647.4673
Unmitigated	0.2852	12.3181	2.0671	0.0155	0.0472	4.8500e-003	0.0520	0.0133	4.6400e-003	0.0179		1,637.5260	1,637.5260	0.3977		1,647.4673

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	181.52	181.52	181.52	19,162	19,162
Total	181.52	181.52	181.52	19,162	19,162

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	0.29	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Non-Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.161000	0.214000	0.625000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
NaturalGas Unmitigated	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1802.79	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Total		**0.0194**	**0.1767**	**0.1485**	**1.0600e-003**		**0.0134**	**0.0134**		**0.0134**	**0.0134**		**212.0930**	**212.0930**	**4.0700e-003**	**3.8900e-003**	**213.3533**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.80279	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Total		**0.0194**	**0.1767**	**0.1485**	**1.0600e-003**		**0.0134**	**0.0134**		**0.0134**	**0.0134**		**212.0930**	**212.0930**	**4.0700e-003**	**3.8900e-003**	**213.3533**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Unmitigated	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798

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	0.8573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5762					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.3300e-003	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Total	**7.4408**	**7.2000e-004**	**0.0788**	**1.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**		**0.1686**	**0.1686**	**4.4000e-004**		**0.1798**

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	0.8573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5762					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.3300e-003	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Total	**7.4408**	**7.2000e-004**	**0.0788**	**1.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**		**0.1686**	**0.1686**	**4.4000e-004**		**0.1798**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

First Industrial Wharehouse on Rider St.

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	324.15	1000sqft	7.44	324,147.00	0
Other Asphalt Surfaces	86.14	1000sqft	1.98	86,139.00	0
Other Non-Asphalt Surfaces	360.29	1000sqft	8.27	360,289.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

First Industrial Wharehouse on Rider St. - Riverside-South Coast County, Summer

Project Characteristics - SCE carbon intestity adjusted per 2019 SCE data.

Land Use - Per Plot Plan, includes paved streets along site frontage.

Construction Phase - not modeled

Off-road Equipment - 8hr work day assumed

Off-road Equipment - not modeled

Trips and VMT - not modeled

Demolition -

Vehicle Trips - truck trip rate er TIA, onsite trup length = 0.29 mi

Energy Use -

Water And Wastewater - not modeled

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix - Per TIA

Solid Waste - not modeled

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblFleetMix	HHD	0.07	0.63
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.16
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00

tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.21
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	324,150.00	324,147.00
tblLandUse	LandUseSquareFeet	86,140.00	86,139.00
tblLandUse	LandUseSquareFeet	360,290.00	360,289.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblVehicleTrips	CNW_TL	6.90	0.29
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.56
tblVehicleTrips	SU_TR	1.68	0.56
tblVehicleTrips	WD_TR	1.68	0.56
tblWater	IndoorWaterUseRate	74,959,687.50	3,332,450.00
tblWater	OutdoorWaterUseRate	0.00	1,681,391.20

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Energy	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Mobile	0.2565	12.7823	1.4912	0.0177	0.0472	3.8300e-003	0.0510	0.0133	3.6600e-003	0.0170		1,866.5205	1,866.5205	0.3498		1,875.2657
Total	**7.7167**	**12.9598**	**1.7185**	**0.0187**	**0.0472**	**0.0175**	**0.0647**	**0.0133**	**0.0174**	**0.0307**		**2,078.7821**	**2,078.7821**	**0.3543**	**3.8900e-003**	**2,088.7988**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Energy	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Mobile	0.2565	12.7823	1.4912	0.0177	0.0472	3.8300e-003	0.0510	0.0133	3.6600e-003	0.0170		1,866.5205	1,866.5205	0.3498		1,875.2657
Total	**7.7167**	**12.9598**	**1.7185**	**0.0187**	**0.0472**	**0.0175**	**0.0647**	**0.0133**	**0.0174**	**0.0307**		**2,078.7821**	**2,078.7821**	**0.3543**	**3.8900e-003**	**2,088.7988**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	8/31/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 10.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Forklifts	0	8.00	89	0.20
Demolition	Generator Sets	0	8.00	84	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demolition	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

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

3.2 Demolition - 2021

Unmitigated Construction Off-Site

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

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2565	12.7823	1.4912	0.0177	0.0472	3.8300e-003	0.0510	0.0133	3.6600e-003	0.0170		1,866.5205	1,866.5205	0.3498		1,875.2657
Unmitigated	0.2565	12.7823	1.4912	0.0177	0.0472	3.8300e-003	0.0510	0.0133	3.6600e-003	0.0170		1,866.5205	1,866.5205	0.3498		1,875.2657

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	181.52	181.52	181.52	19,162	19,162
Total	181.52	181.52	181.52	19,162	19,162

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	0.29	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Non-Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.161000	0.214000	0.625000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
NaturalGas Unmitigated	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1802.79	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Total		**0.0194**	**0.1767**	**0.1485**	**1.0600e-003**		**0.0134**	**0.0134**		**0.0134**	**0.0134**		**212.0930**	**212.0930**	**4.0700e-003**	**3.8900e-003**	**213.3533**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.80279	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Total		**0.0194**	**0.1767**	**0.1485**	**1.0600e-003**		**0.0134**	**0.0134**		**0.0134**	**0.0134**		**212.0930**	**212.0930**	**4.0700e-003**	**3.8900e-003**	**213.3533**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Unmitigated	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798

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	0.8573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5762					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.3300e-003	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Total	**7.4408**	**7.2000e-004**	**0.0788**	**1.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**		**0.1686**	**0.1686**	**4.4000e-004**		**0.1798**

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	0.8573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5762					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.3300e-003	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Total	**7.4408**	**7.2000e-004**	**0.0788**	**1.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**		**0.1686**	**0.1686**	**4.4000e-004**		**0.1798**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

First Industrial Wharehouse on Rider St.

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	324.15	1000sqft	7.44	324,147.00	0
Other Asphalt Surfaces	86.14	1000sqft	1.98	86,139.00	0
Other Non-Asphalt Surfaces	360.29	1000sqft	8.27	360,289.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

First Industrial Wharehouse on Rider St. - Riverside-South Coast County, Winter

Project Characteristics - SCE carbon intestity adjusted per 2019 SCE data.

Land Use - Per Plot Plan, includes paved streets along site frontage.

Construction Phase - not modeled

Off-road Equipment - 8hr work day assumed

Off-road Equipment - not modeled

Trips and VMT - not modeled

Demolition -

Vehicle Trips - truck trip rate er TIA, onsite trup length = 0.29 mi

Energy Use -

Water And Wastewater - not modeled

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix - Per TIA

Solid Waste - not modeled

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblFleetMix	HHD	0.07	0.63
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.16
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00

tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.21
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	324,150.00	324,147.00
tblLandUse	LandUseSquareFeet	86,140.00	86,139.00
tblLandUse	LandUseSquareFeet	360,290.00	360,289.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblVehicleTrips	CNW_TL	6.90	0.29
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.56
tblVehicleTrips	SU_TR	1.68	0.56
tblVehicleTrips	WD_TR	1.68	0.56
tblWater	IndoorWaterUseRate	74,959,687.50	3,332,450.00
tblWater	OutdoorWaterUseRate	0.00	1,681,391.20

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Energy	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Mobile	0.2852	12.3181	2.0671	0.0155	0.0472	4.8500e-003	0.0520	0.0133	4.6400e-003	0.0179		1,637.5260	1,637.5260	0.3977		1,647.4673
Total	**7.7455**	**12.4956**	**2.2944**	**0.0166**	**0.0472**	**0.0186**	**0.0658**	**0.0133**	**0.0184**	**0.0317**		**1,849.7876**	**1,849.7876**	**0.4022**	**3.8900e-003**	**1,861.0003**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Energy	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Mobile	0.2852	12.3181	2.0671	0.0155	0.0472	4.8500e-003	0.0520	0.0133	4.6400e-003	0.0179		1,637.5260	1,637.5260	0.3977		1,647.4673
Total	**7.7455**	**12.4956**	**2.2944**	**0.0166**	**0.0472**	**0.0186**	**0.0658**	**0.0133**	**0.0184**	**0.0317**		**1,849.7876**	**1,849.7876**	**0.4022**	**3.8900e-003**	**1,861.0003**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	8/31/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 10.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Forklifts	0	8.00	89	0.20
Demolition	Generator Sets	0	8.00	84	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demolition	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

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

3.2 Demolition - 2021

Unmitigated Construction Off-Site

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

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2852	12.3181	2.0671	0.0155	0.0472	4.8500e-003	0.0520	0.0133	4.6400e-003	0.0179		1,637.5260	1,637.5260	0.3977		1,647.4673
Unmitigated	0.2852	12.3181	2.0671	0.0155	0.0472	4.8500e-003	0.0520	0.0133	4.6400e-003	0.0179		1,637.5260	1,637.5260	0.3977		1,647.4673

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	181.52	181.52	181.52	19,162	19,162
Total	181.52	181.52	181.52	19,162	19,162

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	0.29	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Non-Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.161000	0.214000	0.625000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
NaturalGas Unmitigated	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1802.79	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Total		**0.0194**	**0.1767**	**0.1485**	**1.0600e-003**		**0.0134**	**0.0134**		**0.0134**	**0.0134**		**212.0930**	**212.0930**	**4.0700e-003**	**3.8900e-003**	**213.3533**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.80279	0.0194	0.1767	0.1485	1.0600e-003		0.0134	0.0134		0.0134	0.0134		212.0930	212.0930	4.0700e-003	3.8900e-003	213.3533
Total		**0.0194**	**0.1767**	**0.1485**	**1.0600e-003**		**0.0134**	**0.0134**		**0.0134**	**0.0134**		**212.0930**	**212.0930**	**4.0700e-003**	**3.8900e-003**	**213.3533**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Unmitigated	7.4408	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798

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	0.8573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5762					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.3300e-003	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Total	**7.4408**	**7.2000e-004**	**0.0788**	**1.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**		**0.1686**	**0.1686**	**4.4000e-004**		**0.1798**

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	0.8573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5762					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.3300e-003	7.2000e-004	0.0788	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.4000e-004		0.1798
Total	**7.4408**	**7.2000e-004**	**0.0788**	**1.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**		**0.1686**	**0.1686**	**4.4000e-004**		**0.1798**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Particulate Matter Idling Emissions Calculations for Operation LST

Pollutant	Emission Factor*	Idling Time	Daily Truck Trips**	Idling Emissions	Idling Emissions
	(g/hr-veh)	(min)		(g/day)	(lb/day)
LHDT2					
PM-10	0.786999383	15	30	5.902495	0.013012843
PM-2.5	0.752954138	15	30	5.647156	0.012449913
MHDT					
PM-10	0.147005556	15	39	1.433304	0.003159911
PM-2.5	0.140646161	15	39	1.3713	0.003023215
HHDT					
PM-10	0.015027518	15	113	0.424527	0.000935928
PM-2.5	0.014377434	15	113	0.406163	0.00089544
PM-10 Sub-Total					0.017108682
PM-2.5 Sub-Total					0.016368568
CalEEMod Total					
PM-10 Total					0.052
PM-2.5 Total					0.0179
Operation LST Total					
PM-10 Total					0.07
PM-2.5 Total					0.03

* Annual idling emission factors from EMFAC2017 for 2022 in Riverside County

** Project-specific Traffic Impact Analysis, July 2020