

**Appendix C. GHG Memo**

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# TECHNICAL MEMORANDUM

**To:** Amanda Acuna, Senior Planner, City of Gardena  
**From:** Sharon Toland, Project Manager, Harris & Associates  
**Subject:** Hitco Project – Greenhouse Gas Emissions Impact Analysis  
**Date:** June 6, 2022  
**CC:** William Halligan, Esq., Senior Director/Senior Environmental Counsel, Harris & Associates  
**Att:** 1, CalEEMod Results

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Dear Ms. Acuna,

The following presents the results of Harris & Associates' analysis of potential greenhouse gas (GHG) impacts from construction and operation of the Hitco Project (Project). The project site is at 1600 W. 135th Street, between Western Avenue and Normandie Avenue, in the City of Gardena (City). The property consists of two parcels (Assessor's Parcel Numbers 6102-013-026 and 6102-013-027) and is composed of 8.46 acres. The project involves the demolition of all existing on-site buildings, parking lots, and associated improvements and consists of a new 190,860-square-foot tilt-up concrete industrial building. This building would accommodate up to two tenants with a variety of uses, including light assembly, manufacturing, e-commerce, and warehousing/distribution. Project implementation requires a site plan review, lot line adjustment, and conditional use permit to allow for warehousing uses.

## Background

A GHG is any gas that absorbs infrared radiation and traps heat in the atmosphere. GHGs are produced from natural processes and human activities. The accumulation of GHGs in the atmosphere influences the long-term atmospheric temperatures and contributes to global climate change. In California, per Assembly Bill (AB) 32 (2016), GHGs are defined to include carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride, plus chlorofluorocarbons and other chlorine- or bromine-containing gases. Hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride are synthetic, powerful GHGs that are emitted from a variety of industrial processes and the production of chlorodifluoromethane. The specifics of the future industrial use that would occur on the project site are unknown; however, the project would accommodate light assembly, manufacturing, e-commerce, and warehousing/distribution rather than heavy industrial processes. Additionally, chlorodifluoromethane has been mostly phased out of use in the United States, with the exception of feedstock production (USEPA 2021); therefore, these GHGs are not discussed further in this memorandum. CO<sub>2</sub> accounts for the largest amount of GHG emissions, and collectively, CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O amount to 80 percent of the total radiative forcing from well-mixed GHGs (CARB 2014).

For each GHG, a global warming potential has been calculated to reflect how long emissions remain in the atmosphere and how strongly each GHG absorbs energy on a per-kilogram basis relative to CO<sub>2</sub>. For example, 1 pound of CH<sub>4</sub> has 25 times more heat-capturing potential than 1 pound of CO<sub>2</sub>. To simplify reporting and analysis, GHG emissions are typically reported in metric tons of CO<sub>2</sub> equivalent (MTCO<sub>2e</sub>) units. Global warming potential is a metric that indicates the relative climate forcing of a kilogram of emissions when averaged over the period of interest. Table 1, Global Warming Potential for Select Greenhouse Gases, identifies the CO<sub>2e</sub> and atmospheric lifetimes of basic GHGs.

**Table 1. Global Warming Potential for Select Greenhouse Gases**

Pollutant	Atmospheric Lifetime (years)	Global Warming Potential (100-year) <sup>1</sup>
CH <sub>4</sub>	12	25
CO <sub>2</sub>	~100	1
N <sub>2</sub> O	121	298

Source: CAPCOA 2021.

Notes: CH<sub>4</sub> = methane; CO<sub>2</sub> = carbon dioxide; N<sub>2</sub>O = nitrous oxide

<sup>1</sup> The warming effects over a 100-year period relative to other GHGs.

## Regulatory Setting

### Federal

The U.S. Environmental Protection Agency is responsible for implementing federal policy to address global climate change. In 2009, the U.S. Environmental Protection Agency issued a Final Rule for mandatory reporting of GHG emissions, which applies to fossil fuel and industrial gas suppliers, direct GHG emitters, and manufacturers of heavy-duty and off-road vehicles, and requires annual reporting of emissions. This rule does not regulate the emission of GHGs; it only requires the monitoring and reporting of GHGs for those sources above certain thresholds.

### State

California has enacted a variety of legislation relating to climate change, much of which has set aggressive goals for GHG emissions reductions throughout the state. California Executive Order S-03-05 (2005) establishes the goal of reducing GHG emissions to 2000 levels by 2010, to 1990 levels by 2020, and to 80 percent below 1990 levels by 2050. In September 2006, Governor Schwarzenegger signed California's Global Warming Solutions Act of 2006 (AB 32), requiring the California Air Resources Board to establish a statewide GHG emissions cap for 2020 based on 1990 emissions and to adopt mandatory reporting rules for significant sources of GHG emissions. In April 2015, Governor Brown signed Executive Order B-30-15, which established the goal of reducing GHG emissions to 40 percent below 1990 levels by 2030.

### Regional

The City is in the South Coast Air Basin, and the South Coast Air Quality Management District (SCAQMD) is the agency primarily responsible for comprehensive air pollution control in the basin. To provide GHG emissions guidance to the local jurisdictions in the South Coast Air Basin, the SCAQMD organized a working group to develop GHG emissions analysis guidance and thresholds. In 2008, the SCAQMD's governing board adopted a tiered interim approach for determining GHG emissions significance, whereby the level of detail and refinement needed to determine significance increases with a project's total GHG emissions. The approach defines projects that are exempt under the California Environmental Quality Act (CEQA) (Tier 1) and projects that are in a GHG Reduction Plan (Tier 2) as less than significant. Tier 3 provides numerical GHG significance threshold of 3,000 MTCO<sub>2</sub>e per year for all land use types (SCAQMD 2008).

### Local

In 2017, the City, in cooperation the South Bay Cities Council of Governments, prepared a Climate Action Plan (CAP), which includes the goal to reduce GHG emissions to 15 percent below 2005 levels by the year 2020 and the longer-term GHG reduction goal of 49 percent below 2005 levels by 2035. The interim and longer-term goals put the City on a path toward the state's long-term goal to reduce emissions 80 percent below 1990 levels by 2050. The CAP outlines the City's existing sustainability efforts, including improved bicycle infrastructure and partnerships to increase energy efficiency. The CAP included additional measures to reduce GHG emissions to accomplish the City's GHG reduction targets in five broad categories: Land Use and Transportation, Energy Efficiency, Energy Generation, Solid Waste, and Urban Greening (City of Gardena 2017).

## Significance Thresholds

The project would result in a significant impact if it would generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment. The City has adopted a CAP; however, the CAP is a planning tool with optional GHG reduction strategies and is not a qualified CAP for use for CEQA streamlining. In the absence of a City-specific threshold, guidance from the SCAQMD is used to evaluate the significance of project emissions. SCAQMD guidance consists of a tiered approach for evaluating GHG emissions for development projects where the SCAQMD is not the lead agency. The project is not exempt from CEQA, and a local qualified CAP is not adopted; therefore, Tiers 1 and 2 of the SCAQMD approach do not apply to the project. Tier 3 establishes a numerical screening level threshold of 3,000 MTCO<sub>2e</sub> per year for all land use types. Projects that do not exceed the bright-line threshold would result in a less than cumulatively considerable impact on GHG emissions. This threshold is based on the AB 32 GHG reduction target and 2020 GHG emissions inventory. The SCAQMD has yet to publish a quantified GHG efficiency threshold for the 2030 target. Although the SCAQMD has not published a quantified threshold beyond 2020, this assessment uses the scaled threshold of 2,520 MTCO<sub>2e</sub> per year, which was calculated for the buildout year of 2024 based on the GHG reduction goals of Senate Bill 32 and Executive Order B-30-15.

## Impact Analysis

### Construction

Project construction emissions were estimated using the California Emissions Estimator Model (CalEEMod), version 2020.4.0, based on construction information provided by the City and model default assumptions. Project construction is anticipated to last for 12 to 14 months, which is consistent with the CalEEMod default schedule assumptions for the project. A total of 230,889 square feet of existing development on the project site would be demolished and hauled away. Cut and fill would be balanced on site, and no import or export is assumed. Detailed assumptions and modeling datasheets are provided in Attachment 1, CalEEMod Results. Total GHG emissions associated with construction of the Project would be approximately 709 MTCO<sub>2e</sub>. Consistent with SCAQMD guidance, construction emissions are amortized over a 30-year project lifetime and added to project operational emissions. Amortized construction emissions would be approximately 24 MTCO<sub>2e</sub> per year. The significance of the amortized construction emissions is addressed with operational emissions below.

### Operation

Operation of the project would result in GHG emissions from vehicle trips, energy consumption, water use, and solid waste disposal. However, the project site is developed with similar facilities that currently generate GHG emissions. Operational emissions from existing land uses and the project are modeled with CalEEMod to estimate the net change in emissions as a result of project implementation. Vehicle trip data was obtained from the project's Transportation Impact Analysis (Gibson 2022). The project is anticipated to result in a net decrease in vehicle trips compared to existing conditions. Modeling conservatively assumes that the project would be developed as a manufacturing facility, which would result in a reduction of 178 daily trips compared to existing conditions. If the project operates as a warehousing use, it is anticipated to result in a reduction of 728 daily trips compared to existing conditions. If the Project is developed as a high-cube distribution center, it is anticipated to result in a reduction of 784 daily trips.

The total estimated and net changes in operational GHG emissions from project implementation are provided in Table 2, Project Greenhouse Gas Emissions. As shown in Table 2, operational emissions from the project would not exceed the SCAQMD significance threshold and would result in a net decrease from existing conditions. GHG emissions from project operation would be less than significant.

**Table 2. Project Greenhouse Gas Emissions**

Emissions Source	Annual GHG Emissions (MTCO <sub>2</sub> e)
<b>Existing Conditions</b>	
Area sources	<1
Energy sources	534
Vehicular sources	1,593
Solid waste	131
Water	197
<b>Existing Total Operational Emissions</b>	<b>2,456</b>
<b>Proposed Project</b>	
Area sources	<1
Energy sources	508
Vehicular sources	1,399
Solid waste	117
Water	163
Amortized construction	24
<b>Total Project Operational Emissions</b>	<b>2,212</b>
<b>Net Change from Project</b>	<b>(244)</b>
<b>Significance Threshold</b>	<b>2,520</b>
<i>Significant Impact?</i>	<i>No</i>

Source: CalEEMod, version 2020.4.0. See Attachment 1 for model output.

Notes: GHG = greenhouse gas; MTCO<sub>2</sub>e = metric tons of carbon dioxide equivalent

## Summary

Implementation of the Project would not result in a significant impact related to GHG emissions. No mitigation measures are necessary.

## References

- CAPCOA (California Air Pollution Control Officers Association). 2021. "Appendix A: Calculation Details for CalEEMod." In California Emissions Estimator Model Users Guide. Version 2020.4.0. May.
- CARB (California Air Resources Board). 2014. First Update to the Climate Change Scoping Plan: Building on the Framework Pursuant to AB 32, the California Global Warming Solutions Act of 2006. May. Accessed June 2022. [https://www.arb.ca.gov/cc/scopingplan/2013\\_update/first\\_update\\_climate\\_change\\_scoping\\_plan.pdf](https://www.arb.ca.gov/cc/scopingplan/2013_update/first_update_climate_change_scoping_plan.pdf).
- City of Gardena. 2017. City of Gardena Climate Action Plan. Prepared by South Bay Cities Council of Governments. December.
- Gibson (Gibson Transportation Consulting, Inc.). 2022. Transportation Assessment for the 1600 W. 135th Street Project, Gardena, California. April 15.
- SCAQMD (South Coast Air Quality Management District). 2008. Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold. October.
- USEPA (U.S. Environmental Protection Agency). 2021. "Phaseout of Ozone-Depleting Substances (ODS)." Last updated November 19. Accessed June 2022. <https://www.epa.gov/ods-phaseout>.

## **Attachment 1. CalEEMod Results**

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Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Hitco Site - Existing Land Uses  
Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	148.79	1000sqft	3.42	148,788.00	0
Unrefrigerated Warehouse-No Rail	49.14	1000sqft	1.13	49,138.00	0
General Office Building	32.69	1000sqft	0.75	32,693.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use - Added parking to adjust lot acreage

Vehicle Trips - Adjusted to TIA trip rates

Table Name	Column Name	Default Value	New Value
tblVehicleTrips	ST_TR	2.21	10.84
tblVehicleTrips	ST_TR	6.42	4.75
tblVehicleTrips	ST_TR	1.74	1.71
tblVehicleTrips	SU_TR	0.70	10.84



Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	SU_TR	5.09	4.75
tblVehicleTrips	SU_TR	1.74	1.71
tblVehicleTrips	WD_TR	9.74	10.84
tblVehicleTrips	WD_TR	3.93	4.75
tblVehicleTrips	WD_TR	1.74	1.71

**2.0 Emissions Summary**

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Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
2022	0.1883	1.6558	1.7017	3.7800e-003	0.2821	0.0753	0.3574	0.1153	0.0703	0.1856	0.0000	338.8504	338.8504	0.0573	0.0109	343.5399
2023	1.2363	1.1729	1.5513	3.5300e-003	0.1300	0.0502	0.1802	0.0351	0.0472	0.0822	0.0000	318.2229	318.2229	0.0450	0.0119	322.8852
<b>Maximum</b>	<b>1.2363</b>	<b>1.6558</b>	<b>1.7017</b>	<b>3.7800e-003</b>	<b>0.2821</b>	<b>0.0753</b>	<b>0.3574</b>	<b>0.1153</b>	<b>0.0703</b>	<b>0.1856</b>	<b>0.0000</b>	<b>338.8504</b>	<b>338.8504</b>	<b>0.0573</b>	<b>0.0119</b>	<b>343.5399</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1883	1.6558	1.7017	3.7800e-003	0.2821	0.0753	0.3574	0.1153	0.0703	0.1856	0.0000	338.8502	338.8502	0.0573	0.0109	343.5397
2023	1.2363	1.1729	1.5513	3.5300e-003	0.1300	0.0502	0.1802	0.0351	0.0472	0.0822	0.0000	318.2227	318.2227	0.0450	0.0119	322.8850
<b>Maximum</b>	<b>1.2363</b>	<b>1.6558</b>	<b>1.7017</b>	<b>3.7800e-003</b>	<b>0.2821</b>	<b>0.0753</b>	<b>0.3574</b>	<b>0.1153</b>	<b>0.0703</b>	<b>0.1856</b>	<b>0.0000</b>	<b>338.8502</b>	<b>338.8502</b>	<b>0.0573</b>	<b>0.0119</b>	<b>343.5397</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-26-2022	8-25-2022	0.8625	0.8625
2	8-26-2022	11-25-2022	0.7032	0.7032
3	11-26-2022	2-25-2023	0.6627	0.6627
4	2-26-2023	5-25-2023	0.6109	0.6109
5	5-26-2023	8-25-2023	1.4065	1.4065
		Highest	1.4065	1.4065

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9513	3.0000e-005	2.9800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.8000e-003	5.8000e-003	2.0000e-005	0.0000	6.1800e-003
Energy	0.0193	0.1753	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	531.5285	531.5285	0.0324	6.9800e-003	534.4201
Mobile	0.6886	0.8489	7.6384	0.0168	1.7399	0.0123	1.7522	0.4642	0.0114	0.4756	0.0000	1,571.2059	1,571.2059	0.1027	0.0662	1,593.4893
Waste						0.0000	0.0000		0.0000	0.0000	52.9989	0.0000	52.9989	3.1322	0.0000	131.3026
Water						0.0000	0.0000		0.0000	0.0000	16.3644	126.1290	142.4934	1.6914	0.0410	196.9904
<b>Total</b>	<b>1.6592</b>	<b>1.0242</b>	<b>7.7887</b>	<b>0.0179</b>	<b>1.7399</b>	<b>0.0256</b>	<b>1.7655</b>	<b>0.4642</b>	<b>0.0247</b>	<b>0.4889</b>	<b>69.3633</b>	<b>2,228.8692</b>	<b>2,298.2325</b>	<b>4.9587</b>	<b>0.1141</b>	<b>2,456.2085</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9513	3.0000e-005	2.9800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.8000e-003	5.8000e-003	2.0000e-005	0.0000	6.1800e-003
Energy	0.0193	0.1753	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	531.5285	531.5285	0.0324	6.9800e-003	534.4201
Mobile	0.6886	0.8489	7.6384	0.0168	1.7399	0.0123	1.7522	0.4642	0.0114	0.4756	0.0000	1,571.2059	1,571.2059	0.1027	0.0662	1,593.4893
Waste						0.0000	0.0000		0.0000	0.0000	52.9989	0.0000	52.9989	3.1322	0.0000	131.3026
Water						0.0000	0.0000		0.0000	0.0000	16.3644	126.1290	142.4934	1.6914	0.0410	196.9904
<b>Total</b>	<b>1.6592</b>	<b>1.0242</b>	<b>7.7887</b>	<b>0.0179</b>	<b>1.7399</b>	<b>0.0256</b>	<b>1.7655</b>	<b>0.4642</b>	<b>0.0247</b>	<b>0.4889</b>	<b>69.3633</b>	<b>2,228.8692</b>	<b>2,298.2325</b>	<b>4.9587</b>	<b>0.1141</b>	<b>2,456.2085</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**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	5/26/2022	6/22/2022	5	20	
2	Site Preparation	Site Preparation	6/23/2022	7/6/2022	5	10	
3	Grading	Grading	7/7/2022	8/3/2022	5	20	

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

4	Building Construction	Building Construction	8/4/2022	6/21/2023	5	230
5	Paving	Paving	6/22/2023	7/19/2023	5	20
6	Architectural Coating	Architectural Coating	7/20/2023	8/16/2023	5	20

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 20**

**Acres of Paving: 3.16**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 345,929; Non-Residential Outdoor: 115,310; Striped Parking Area: 8,259 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Building Construction	Welders	1	8.00	46	0.45
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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	151.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 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	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
<b>Total</b>	<b>0.0264</b>	<b>0.2572</b>	<b>0.2059</b>	<b>3.9000e-004</b>		<b>0.0124</b>	<b>0.0124</b>		<b>0.0116</b>	<b>0.0116</b>	<b>0.0000</b>	<b>33.9902</b>	<b>33.9902</b>	<b>9.5500e-003</b>	<b>0.0000</b>	<b>34.2289</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	4.3000e-004	5.5700e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3606	1.3606	4.0000e-005	4.0000e-005	1.3726
<b>Total</b>	<b>5.1000e-004</b>	<b>4.3000e-004</b>	<b>5.5700e-003</b>	<b>1.0000e-005</b>	<b>1.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.3606</b>	<b>1.3606</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.3726</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
<b>Total</b>	<b>0.0264</b>	<b>0.2572</b>	<b>0.2059</b>	<b>3.9000e-004</b>		<b>0.0124</b>	<b>0.0124</b>		<b>0.0116</b>	<b>0.0116</b>	<b>0.0000</b>	<b>33.9902</b>	<b>33.9902</b>	<b>9.5500e-003</b>	<b>0.0000</b>	<b>34.2289</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	4.3000e-004	5.5700e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3606	1.3606	4.0000e-005	4.0000e-005	1.3726
<b>Total</b>	<b>5.1000e-004</b>	<b>4.3000e-004</b>	<b>5.5700e-003</b>	<b>1.0000e-005</b>	<b>1.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.3606</b>	<b>1.3606</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.3726</b>

**3.3 Site Preparation - 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					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
<b>Total</b>	<b>0.0159</b>	<b>0.1654</b>	<b>0.0985</b>	<b>1.9000e-004</b>	<b>0.0983</b>	<b>8.0600e-003</b>	<b>0.1064</b>	<b>0.0505</b>	<b>7.4200e-003</b>	<b>0.0579</b>	<b>0.0000</b>	<b>16.7197</b>	<b>16.7197</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8549</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.6000e-004	3.3400e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8164	0.8164	2.0000e-005	2.0000e-005	0.8236
<b>Total</b>	<b>3.1000e-004</b>	<b>2.6000e-004</b>	<b>3.3400e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.8164</b>	<b>0.8164</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8236</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
<b>Total</b>	<b>0.0159</b>	<b>0.1654</b>	<b>0.0985</b>	<b>1.9000e-004</b>	<b>0.0983</b>	<b>8.0600e-003</b>	<b>0.1064</b>	<b>0.0505</b>	<b>7.4200e-003</b>	<b>0.0579</b>	<b>0.0000</b>	<b>16.7197</b>	<b>16.7197</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8549</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.6000e-004	3.3400e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8164	0.8164	2.0000e-005	2.0000e-005	0.8236
<b>Total</b>	<b>3.1000e-004</b>	<b>2.6000e-004</b>	<b>3.3400e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.8164</b>	<b>0.8164</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8236</b>

**3.4 Grading - 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					
Fugitive Dust					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654
<b>Total</b>	<b>0.0195</b>	<b>0.2086</b>	<b>0.1527</b>	<b>3.0000e-004</b>	<b>0.0708</b>	<b>9.4100e-003</b>	<b>0.0802</b>	<b>0.0343</b>	<b>8.6600e-003</b>	<b>0.0429</b>	<b>0.0000</b>	<b>26.0548</b>	<b>26.0548</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.2654</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	4.3000e-004	5.5700e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3606	1.3606	4.0000e-005	4.0000e-005	1.3726
<b>Total</b>	<b>5.1000e-004</b>	<b>4.3000e-004</b>	<b>5.5700e-003</b>	<b>1.0000e-005</b>	<b>1.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.3606</b>	<b>1.3606</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.3726</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654
<b>Total</b>	<b>0.0195</b>	<b>0.2086</b>	<b>0.1527</b>	<b>3.0000e-004</b>	<b>0.0708</b>	<b>9.4100e-003</b>	<b>0.0802</b>	<b>0.0343</b>	<b>8.6600e-003</b>	<b>0.0429</b>	<b>0.0000</b>	<b>26.0547</b>	<b>26.0547</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.2654</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	4.3000e-004	5.5700e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3606	1.3606	4.0000e-005	4.0000e-005	1.3726
<b>Total</b>	<b>5.1000e-004</b>	<b>4.3000e-004</b>	<b>5.5700e-003</b>	<b>1.0000e-005</b>	<b>1.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.3606</b>	<b>1.3606</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.3726</b>

**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	0.0913	0.8354	0.8754	1.4400e-003		0.0433	0.0433		0.0407	0.0407	0.0000	123.9730	123.9730	0.0297	0.0000	124.7155
<b>Total</b>	<b>0.0913</b>	<b>0.8354</b>	<b>0.8754</b>	<b>1.4400e-003</b>		<b>0.0433</b>	<b>0.0433</b>		<b>0.0407</b>	<b>0.0407</b>	<b>0.0000</b>	<b>123.9730</b>	<b>123.9730</b>	<b>0.0297</b>	<b>0.0000</b>	<b>124.7155</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2700e-003	0.1651	0.0548	6.3000e-004	0.0202	1.5000e-003	0.0217	5.8400e-003	1.4300e-003	7.2700e-003	0.0000	61.2975	61.2975	2.0500e-003	8.8400e-003	63.9836
Worker	0.0277	0.0231	0.2999	7.9000e-004	0.0885	5.8000e-004	0.0891	0.0235	5.3000e-004	0.0240	0.0000	73.2777	73.2777	2.0900e-003	1.9900e-003	73.9229
<b>Total</b>	<b>0.0340</b>	<b>0.1881</b>	<b>0.3547</b>	<b>1.4200e-003</b>	<b>0.1088</b>	<b>2.0800e-003</b>	<b>0.1108</b>	<b>0.0294</b>	<b>1.9600e-003</b>	<b>0.0313</b>	<b>0.0000</b>	<b>134.5752</b>	<b>134.5752</b>	<b>4.1400e-003</b>	<b>0.0108</b>	<b>137.9064</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0913	0.8354	0.8754	1.4400e-003		0.0433	0.0433		0.0407	0.0407	0.0000	123.9729	123.9729	0.0297	0.0000	124.7154
<b>Total</b>	<b>0.0913</b>	<b>0.8354</b>	<b>0.8754</b>	<b>1.4400e-003</b>		<b>0.0433</b>	<b>0.0433</b>		<b>0.0407</b>	<b>0.0407</b>	<b>0.0000</b>	<b>123.9729</b>	<b>123.9729</b>	<b>0.0297</b>	<b>0.0000</b>	<b>124.7154</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2022**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2700e-003	0.1651	0.0548	6.3000e-004	0.0202	1.5000e-003	0.0217	5.8400e-003	1.4300e-003	7.2700e-003	0.0000	61.2975	61.2975	2.0500e-003	8.8400e-003	63.9836
Worker	0.0277	0.0231	0.2999	7.9000e-004	0.0885	5.8000e-004	0.0891	0.0235	5.3000e-004	0.0240	0.0000	73.2777	73.2777	2.0900e-003	1.9900e-003	73.9229
<b>Total</b>	<b>0.0340</b>	<b>0.1881</b>	<b>0.3547</b>	<b>1.4200e-003</b>	<b>0.1088</b>	<b>2.0800e-003</b>	<b>0.1108</b>	<b>0.0294</b>	<b>1.9600e-003</b>	<b>0.0313</b>	<b>0.0000</b>	<b>134.5752</b>	<b>134.5752</b>	<b>4.1400e-003</b>	<b>0.0108</b>	<b>137.9064</b>

**3.5 Building Construction - 2023**

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	0.0967	0.8847	0.9990	1.6600e-003		0.0430	0.0430		0.0405	0.0405	0.0000	142.5599	142.5599	0.0339	0.0000	143.4077
<b>Total</b>	<b>0.0967</b>	<b>0.8847</b>	<b>0.9990</b>	<b>1.6600e-003</b>		<b>0.0430</b>	<b>0.0430</b>		<b>0.0405</b>	<b>0.0405</b>	<b>0.0000</b>	<b>142.5599</b>	<b>142.5599</b>	<b>0.0339</b>	<b>0.0000</b>	<b>143.4077</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2023**

**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	4.1700e-003	0.1487	0.0557	6.9000e-004	0.0233	7.1000e-004	0.0240	6.7100e-003	6.8000e-004	7.4000e-003	0.0000	67.0924	67.0924	2.2400e-003	9.6600e-003	70.0258
Worker	0.0295	0.0234	0.3173	8.8000e-004	0.1018	6.3000e-004	0.1024	0.0270	5.8000e-004	0.0276	0.0000	82.0162	82.0162	2.1500e-003	2.1100e-003	82.6984
<b>Total</b>	<b>0.0337</b>	<b>0.1721</b>	<b>0.3729</b>	<b>1.5700e-003</b>	<b>0.1250</b>	<b>1.3400e-003</b>	<b>0.1264</b>	<b>0.0337</b>	<b>1.2600e-003</b>	<b>0.0350</b>	<b>0.0000</b>	<b>149.1086</b>	<b>149.1086</b>	<b>4.3900e-003</b>	<b>0.0118</b>	<b>152.7242</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0967	0.8847	0.9990	1.6600e-003		0.0430	0.0430		0.0405	0.0405	0.0000	142.5598	142.5598	0.0339	0.0000	143.4076
<b>Total</b>	<b>0.0967</b>	<b>0.8847</b>	<b>0.9990</b>	<b>1.6600e-003</b>		<b>0.0430</b>	<b>0.0430</b>		<b>0.0405</b>	<b>0.0405</b>	<b>0.0000</b>	<b>142.5598</b>	<b>142.5598</b>	<b>0.0339</b>	<b>0.0000</b>	<b>143.4076</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2023**

**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	4.1700e-003	0.1487	0.0557	6.9000e-004	0.0233	7.1000e-004	0.0240	6.7100e-003	6.8000e-004	7.4000e-003	0.0000	67.0924	67.0924	2.2400e-003	9.6600e-003	70.0258
Worker	0.0295	0.0234	0.3173	8.8000e-004	0.1018	6.3000e-004	0.1024	0.0270	5.8000e-004	0.0276	0.0000	82.0162	82.0162	2.1500e-003	2.1100e-003	82.6984
<b>Total</b>	<b>0.0337</b>	<b>0.1721</b>	<b>0.3729</b>	<b>1.5700e-003</b>	<b>0.1250</b>	<b>1.3400e-003</b>	<b>0.1264</b>	<b>0.0337</b>	<b>1.2600e-003</b>	<b>0.0350</b>	<b>0.0000</b>	<b>149.1086</b>	<b>149.1086</b>	<b>4.3900e-003</b>	<b>0.0118</b>	<b>152.7242</b>

**3.6 Paving - 2023**

**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	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888
Paving	4.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0145</b>	<b>0.1019</b>	<b>0.1458</b>	<b>2.3000e-004</b>		<b>5.1000e-003</b>	<b>5.1000e-003</b>		<b>4.6900e-003</b>	<b>4.6900e-003</b>	<b>0.0000</b>	<b>20.0269</b>	<b>20.0269</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1888</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	3.8000e-004	5.1200e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3248	1.3248	3.0000e-005	3.0000e-005	1.3358
<b>Total</b>	<b>4.8000e-004</b>	<b>3.8000e-004</b>	<b>5.1200e-003</b>	<b>1.0000e-005</b>	<b>1.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.3248</b>	<b>1.3248</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.3358</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888
Paving	4.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0145</b>	<b>0.1019</b>	<b>0.1458</b>	<b>2.3000e-004</b>		<b>5.1000e-003</b>	<b>5.1000e-003</b>		<b>4.6900e-003</b>	<b>4.6900e-003</b>	<b>0.0000</b>	<b>20.0268</b>	<b>20.0268</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1888</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	3.8000e-004	5.1200e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3248	1.3248	3.0000e-005	3.0000e-005	1.3358
<b>Total</b>	<b>4.8000e-004</b>	<b>3.8000e-004</b>	<b>5.1200e-003</b>	<b>1.0000e-005</b>	<b>1.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.3248</b>	<b>1.3248</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.3358</b>

**3.7 Architectural Coating - 2023**

**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	1.0881					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
<b>Total</b>	<b>1.0900</b>	<b>0.0130</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.5571</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	7.6000e-004	0.0103	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6495	2.6495	7.0000e-005	7.0000e-005	2.6716
<b>Total</b>	<b>9.5000e-004</b>	<b>7.6000e-004</b>	<b>0.0103</b>	<b>3.0000e-005</b>	<b>3.2900e-003</b>	<b>2.0000e-005</b>	<b>3.3100e-003</b>	<b>8.7000e-004</b>	<b>2.0000e-005</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>2.6495</b>	<b>2.6495</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.6716</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0881					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
<b>Total</b>	<b>1.0900</b>	<b>0.0130</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.5571</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	7.6000e-004	0.0103	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6495	2.6495	7.0000e-005	7.0000e-005	2.6716
<b>Total</b>	<b>9.5000e-004</b>	<b>7.6000e-004</b>	<b>0.0103</b>	<b>3.0000e-005</b>	<b>3.2900e-003</b>	<b>2.0000e-005</b>	<b>3.3100e-003</b>	<b>8.7000e-004</b>	<b>2.0000e-005</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>2.6495</b>	<b>2.6495</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.6716</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6886	0.8489	7.6384	0.0168	1.7399	0.0123	1.7522	0.4642	0.0114	0.4756	0.0000	1,571.2059	1,571.2059	0.1027	0.0662	1,593.4893
Unmitigated	0.6886	0.8489	7.6384	0.0168	1.7399	0.0123	1.7522	0.4642	0.0114	0.4756	0.0000	1,571.2059	1,571.2059	0.1027	0.0662	1,593.4893

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	354.39	354.39	354.39	1,141,660	1,141,660
Manufacturing	706.74	706.74	706.74	3,129,654	3,129,654
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	84.03	84.03	84.03	360,112	360,112
<b>Total</b>	<b>1,145.16</b>	<b>1,145.16</b>	<b>1,145.16</b>	<b>4,631,426</b>	<b>4,631,426</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

**4.4 Fleet Mix**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Manufacturing	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Parking Lot	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Unrefrigerated Warehouse-No Rail	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	340.7071	340.7071	0.0288	3.4900e-003	342.4648
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	340.7071	340.7071	0.0288	3.4900e-003	342.4648
NaturalGas Mitigated	0.0193	0.1753	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	190.8214	190.8214	3.6600e-003	3.5000e-003	191.9553
NaturalGas Unmitigated	0.0193	0.1753	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	190.8214	190.8214	3.6600e-003	3.5000e-003	191.9553

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
General Office Building	295872	1.6000e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.7888	15.7888	3.0000e-004	2.9000e-004	15.8827
Manufacturing	3.08884e+006	0.0167	0.1514	0.1272	9.1000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	164.8322	164.8322	3.1600e-003	3.0200e-003	165.8117
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	191147	1.0300e-003	9.3700e-003	7.8700e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.2003	10.2003	2.0000e-004	1.9000e-004	10.2609
<b>Total</b>		<b>0.0193</b>	<b>0.1753</b>	<b>0.1472</b>	<b>1.0600e-003</b>		<b>0.0133</b>	<b>0.0133</b>		<b>0.0133</b>	<b>0.0133</b>	<b>0.0000</b>	<b>190.8214</b>	<b>190.8214</b>	<b>3.6600e-003</b>	<b>3.5000e-003</b>	<b>191.9553</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	295872	1.6000e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.7888	15.7888	3.0000e-004	2.9000e-004	15.8827
Manufacturing	3.08884e+006	0.0167	0.1514	0.1272	9.1000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	164.8322	164.8322	3.1600e-003	3.0200e-003	165.8117
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	191147	1.0300e-003	9.3700e-003	7.8700e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.2003	10.2003	2.0000e-004	1.9000e-004	10.2609
<b>Total</b>		<b>0.0193</b>	<b>0.1753</b>	<b>0.1472</b>	<b>1.0600e-003</b>		<b>0.0133</b>	<b>0.0133</b>		<b>0.0133</b>	<b>0.0133</b>	<b>0.0000</b>	<b>190.8214</b>	<b>190.8214</b>	<b>3.6600e-003</b>	<b>3.5000e-003</b>	<b>191.9553</b>



Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	441029	78.2145	6.6000e-003	8.0000e-004	78.6180
Manufacturing	1.23048e+006	218.2196	0.0184	2.2300e-003	219.3453
Parking Lot	48177.4	8.5440	7.2000e-004	9.0000e-005	8.5881
Unrefrigerated Warehouse-No Rail	201466	35.7291	3.0200e-003	3.7000e-004	35.9134
<b>Total</b>		<b>340.7071</b>	<b>0.0288</b>	<b>3.4900e-003</b>	<b>342.4648</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.3 Energy by Land Use - Electricity**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	441029	78.2145	6.6000e-003	8.0000e-004	78.6180
Manufacturing	1.23048e+006	218.2196	0.0184	2.2300e-003	219.3453
Parking Lot	48177.4	8.5440	7.2000e-004	9.0000e-005	8.5881
Unrefrigerated Warehouse-No Rail	201466	35.7291	3.0200e-003	3.7000e-004	35.9134
<b>Total</b>		<b>340.7071</b>	<b>0.0288</b>	<b>3.4900e-003</b>	<b>342.4648</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9513	3.0000e-005	2.9800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.8000e-003	5.8000e-003	2.0000e-005	0.0000	6.1800e-003
Unmitigated	0.9513	3.0000e-005	2.9800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.8000e-003	5.8000e-003	2.0000e-005	0.0000	6.1800e-003

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1088					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8422					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8000e-004	3.0000e-005	2.9800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.8000e-003	5.8000e-003	2.0000e-005	0.0000	6.1800e-003
<b>Total</b>	<b>0.9513</b>	<b>3.0000e-005</b>	<b>2.9800e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.8000e-003</b>	<b>5.8000e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>6.1800e-003</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1088					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8422					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8000e-004	3.0000e-005	2.9800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.8000e-003	5.8000e-003	2.0000e-005	0.0000	6.1800e-003
<b>Total</b>	<b>0.9513</b>	<b>3.0000e-005</b>	<b>2.9800e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.8000e-003</b>	<b>5.8000e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>6.1800e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	142.4934	1.6914	0.0410	196.9904
Unmitigated	142.4934	1.6914	0.0410	196.9904

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	5.81012 / 3.56104	22.2764	0.1911	4.6800e-003	28.4471
Manufacturing	34.4077 / 0	90.3708	1.1279	0.0273	126.6991
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	11.3636 / 0	29.8462	0.3725	9.0100e-003	41.8442
<b>Total</b>		<b>142.4934</b>	<b>1.6914</b>	<b>0.0410</b>	<b>196.9904</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	5.81012 / 3.56104	22.2764	0.1911	4.6800e-003	28.4471
Manufacturing	34.4077 / 0	90.3708	1.1279	0.0273	126.6991
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	11.3636 / 0	29.8462	0.3725	9.0100e-003	41.8442
<b>Total</b>		<b>142.4934</b>	<b>1.6914</b>	<b>0.0410</b>	<b>196.9904</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	52.9989	3.1322	0.0000	131.3026
Unmitigated	52.9989	3.1322	0.0000	131.3026

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	30.4	6.1709	0.3647	0.0000	15.2882
Manufacturing	184.5	37.4518	2.2133	0.0000	92.7853
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	46.19	9.3762	0.5541	0.0000	23.2290
<b>Total</b>		<b>52.9989</b>	<b>3.1321</b>	<b>0.0000</b>	<b>131.3026</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	30.4	6.1709	0.3647	0.0000	15.2882
Manufacturing	184.5	37.4518	2.2133	0.0000	92.7853
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	46.19	9.3762	0.5541	0.0000	23.2290
<b>Total</b>		<b>52.9989</b>	<b>3.1321</b>	<b>0.0000</b>	<b>131.3026</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Equipment Type	Number
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**11.0 Vegetation**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Hitco Proposed  
Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	10.00	1000sqft	0.23	10,000.00	0
Manufacturing	180.86	1000sqft	4.15	180,860.00	0
Parking Lot	4.08	Acre	4.08	177,724.80	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

- Project Characteristics -
- Land Use - Added parking to adjust lot acreage
- Construction Phase - adjusted coating to simultaneous with last third of building construction
- Demolition -
- Grading - adjusted grading area to site acreage
- Vehicle Trips - Adjusted consistent with TIA
- Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	20.00	69.00
tblGrading	AcresOfGrading	20.00	8.46
tblGrading	AcresOfGrading	15.00	8.46
tblVehicleTrips	ST_TR	2.21	10.84
tblVehicleTrips	ST_TR	6.42	4.75
tblVehicleTrips	SU_TR	0.70	10.84
tblVehicleTrips	SU_TR	5.09	4.75
tblVehicleTrips	WD_TR	9.74	10.84
tblVehicleTrips	WD_TR	3.93	4.75

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
2023	0.2790	2.4101	2.8199	6.7600e-003	0.5034	0.1003	0.6037	0.1631	0.0940	0.2570	0.0000	611.5967	611.5967	0.0906	0.0251	621.3442
2024	0.9544	0.3022	0.4670	9.7000e-004	0.0340	0.0132	0.0472	9.1200e-003	0.0125	0.0216	0.0000	86.6363	86.6363	0.0134	2.1300e-003	87.6062
<b>Maximum</b>	<b>0.9544</b>	<b>2.4101</b>	<b>2.8199</b>	<b>6.7600e-003</b>	<b>0.5034</b>	<b>0.1003</b>	<b>0.6037</b>	<b>0.1631</b>	<b>0.0940</b>	<b>0.2570</b>	<b>0.0000</b>	<b>611.5967</b>	<b>611.5967</b>	<b>0.0906</b>	<b>0.0251</b>	<b>621.3442</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2790	2.4101	2.8199	6.7600e-003	0.3531	0.1003	0.4534	0.1076	0.0940	0.2015	0.0000	611.5963	611.5963	0.0906	0.0251	621.3438
2024	0.9544	0.3022	0.4670	9.7000e-004	0.0340	0.0132	0.0472	9.1200e-003	0.0125	0.0216	0.0000	86.6363	86.6363	0.0134	2.1300e-003	87.6061
<b>Maximum</b>	<b>0.9544</b>	<b>2.4101</b>	<b>2.8199</b>	<b>6.7600e-003</b>	<b>0.3531</b>	<b>0.1003</b>	<b>0.4534</b>	<b>0.1076</b>	<b>0.0940</b>	<b>0.2015</b>	<b>0.0000</b>	<b>611.5963</b>	<b>611.5963</b>	<b>0.0906</b>	<b>0.0251</b>	<b>621.3438</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	27.96	0.00	23.08	32.24	0.00	19.92	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	1-2-2023	4-1-2023	0.7895	0.7895
2	4-2-2023	7-1-2023	0.6229	0.6229
3	7-2-2023	10-1-2023	0.6298	0.6298
4	10-2-2023	1-1-2024	0.6352	0.6352
5	1-2-2024	4-1-2024	0.6530	0.6530
6	4-2-2024	7-1-2024	0.5881	0.5881
		Highest	0.7895	0.7895

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7923	2.0000e-005	2.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.8400e-003	4.8400e-003	1.0000e-005	0.0000	5.1500e-003
Energy	0.0207	0.1885	0.1583	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	505.4054	505.4054	0.0293	6.8300e-003	508.1735
Mobile	0.5876	0.7142	6.5135	0.0147	1.5605	0.0106	1.5711	0.4163	9.8800e-003	0.4262	0.0000	1,380.2635	1,380.2635	0.0886	0.0568	1,399.3912
Waste						0.0000	0.0000		0.0000	0.0000	47.4126	0.0000	47.4126	2.8020	0.0000	117.4627
Water						0.0000	0.0000		0.0000	0.0000	13.8327	102.8310	116.6636	1.4294	0.0346	162.7097
<b>Total</b>	<b>1.4006</b>	<b>0.9027</b>	<b>6.6743</b>	<b>0.0158</b>	<b>1.5605</b>	<b>0.0250</b>	<b>1.5855</b>	<b>0.4163</b>	<b>0.0242</b>	<b>0.4405</b>	<b>61.2453</b>	<b>1,988.5047</b>	<b>2,049.7500</b>	<b>4.3493</b>	<b>0.0982</b>	<b>2,187.7423</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7923	2.0000e-005	2.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.8400e-003	4.8400e-003	1.0000e-005	0.0000	5.1500e-003
Energy	0.0207	0.1885	0.1583	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	505.4054	505.4054	0.0293	6.8300e-003	508.1735
Mobile	0.5876	0.7142	6.5135	0.0147	1.5605	0.0106	1.5711	0.4163	9.8800e-003	0.4262	0.0000	1,380.2635	1,380.2635	0.0886	0.0568	1,399.3912
Waste						0.0000	0.0000		0.0000	0.0000	47.4126	0.0000	47.4126	2.8020	0.0000	117.4627
Water						0.0000	0.0000		0.0000	0.0000	13.8327	102.8310	116.6636	1.4294	0.0346	162.7097
<b>Total</b>	<b>1.4006</b>	<b>0.9027</b>	<b>6.6743</b>	<b>0.0158</b>	<b>1.5605</b>	<b>0.0250</b>	<b>1.5855</b>	<b>0.4163</b>	<b>0.0242</b>	<b>0.4405</b>	<b>61.2453</b>	<b>1,988.5047</b>	<b>2,049.7500</b>	<b>4.3493</b>	<b>0.0982</b>	<b>2,187.7423</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**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	1/2/2023	1/27/2023	5	20	
2	Site Preparation	Site Preparation	1/28/2023	2/10/2023	5	10	
3	Grading	Grading	2/11/2023	3/10/2023	5	20	

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4	Building Construction	Building Construction	3/11/2023	1/26/2024	5	230
5	Paving	Paving	1/27/2024	2/23/2024	5	20
6	Architectural Coating	Architectural Coating	2/24/2024	5/30/2024	5	69

**Acres of Grading (Site Preparation Phase): 8.46**

**Acres of Grading (Grading Phase): 8.46**

**Acres of Paving: 4.08**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 286,290; Non-Residential Outdoor: 95,430; Striped Parking Area: 10,663 (Architectural Coating – sqft)**

**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	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38



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Architectural Coating	Air Compressors	1	6.00	78	0.48
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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	1,050.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	154.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	31.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2023**

**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					0.1136	0.0000	0.1136	0.0172	0.0000	0.0172	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0227	0.2148	0.1964	3.9000e-004		9.9800e-003	9.9800e-003		9.2800e-003	9.2800e-003	0.0000	33.9921	33.9921	9.5200e-003	0.0000	34.2301
<b>Total</b>	<b>0.0227</b>	<b>0.2148</b>	<b>0.1964</b>	<b>3.9000e-004</b>	<b>0.1136</b>	<b>9.9800e-003</b>	<b>0.1236</b>	<b>0.0172</b>	<b>9.2800e-003</b>	<b>0.0265</b>	<b>0.0000</b>	<b>33.9921</b>	<b>33.9921</b>	<b>9.5200e-003</b>	<b>0.0000</b>	<b>34.2301</b>

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**3.2 Demolition - 2023**

**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	1.1100e-003	0.0722	0.0184	3.1000e-004	9.0300e-003	4.3000e-004	9.4700e-003	2.4800e-003	4.1000e-004	2.8900e-003	0.0000	30.6216	30.6216	1.6900e-003	4.8600e-003	32.1129
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	3.8000e-004	5.1200e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3248	1.3248	3.0000e-005	3.0000e-005	1.3358
<b>Total</b>	<b>1.5900e-003</b>	<b>0.0726</b>	<b>0.0235</b>	<b>3.2000e-004</b>	<b>0.0107</b>	<b>4.4000e-004</b>	<b>0.0111</b>	<b>2.9200e-003</b>	<b>4.2000e-004</b>	<b>3.3400e-003</b>	<b>0.0000</b>	<b>31.9464</b>	<b>31.9464</b>	<b>1.7200e-003</b>	<b>4.8900e-003</b>	<b>33.4487</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0511	0.0000	0.0511	7.7400e-003	0.0000	7.7400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0227	0.2148	0.1964	3.9000e-004		9.9800e-003	9.9800e-003		9.2800e-003	9.2800e-003	0.0000	33.9920	33.9920	9.5200e-003	0.0000	34.2300
<b>Total</b>	<b>0.0227</b>	<b>0.2148</b>	<b>0.1964</b>	<b>3.9000e-004</b>	<b>0.0511</b>	<b>9.9800e-003</b>	<b>0.0611</b>	<b>7.7400e-003</b>	<b>9.2800e-003</b>	<b>0.0170</b>	<b>0.0000</b>	<b>33.9920</b>	<b>33.9920</b>	<b>9.5200e-003</b>	<b>0.0000</b>	<b>34.2300</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2023**

**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	1.1100e-003	0.0722	0.0184	3.1000e-004	9.0300e-003	4.3000e-004	9.4700e-003	2.4800e-003	4.1000e-004	2.8900e-003	0.0000	30.6216	30.6216	1.6900e-003	4.8600e-003	32.1129
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	3.8000e-004	5.1200e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3248	1.3248	3.0000e-005	3.0000e-005	1.3358
<b>Total</b>	<b>1.5900e-003</b>	<b>0.0726</b>	<b>0.0235</b>	<b>3.2000e-004</b>	<b>0.0107</b>	<b>4.4000e-004</b>	<b>0.0111</b>	<b>2.9200e-003</b>	<b>4.2000e-004</b>	<b>3.3400e-003</b>	<b>0.0000</b>	<b>31.9464</b>	<b>31.9464</b>	<b>1.7200e-003</b>	<b>4.8900e-003</b>	<b>33.4487</b>

**3.3 Site Preparation - 2023**

**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					0.0948	0.0000	0.0948	0.0501	0.0000	0.0501	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1376	0.0912	1.9000e-004		6.3300e-003	6.3300e-003		5.8200e-003	5.8200e-003	0.0000	16.7254	16.7254	5.4100e-003	0.0000	16.8606
<b>Total</b>	<b>0.0133</b>	<b>0.1376</b>	<b>0.0912</b>	<b>1.9000e-004</b>	<b>0.0948</b>	<b>6.3300e-003</b>	<b>0.1012</b>	<b>0.0501</b>	<b>5.8200e-003</b>	<b>0.0560</b>	<b>0.0000</b>	<b>16.7254</b>	<b>16.7254</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8606</b>

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**3.3 Site Preparation - 2023**

**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	2.9000e-004	2.3000e-004	3.0700e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7949	0.7949	2.0000e-005	2.0000e-005	0.8015
<b>Total</b>	<b>2.9000e-004</b>	<b>2.3000e-004</b>	<b>3.0700e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7949</b>	<b>0.7949</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8015</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0427	0.0000	0.0427	0.0226	0.0000	0.0226	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1376	0.0912	1.9000e-004		6.3300e-003	6.3300e-003		5.8200e-003	5.8200e-003	0.0000	16.7253	16.7253	5.4100e-003	0.0000	16.8606
<b>Total</b>	<b>0.0133</b>	<b>0.1376</b>	<b>0.0912</b>	<b>1.9000e-004</b>	<b>0.0427</b>	<b>6.3300e-003</b>	<b>0.0490</b>	<b>0.0226</b>	<b>5.8200e-003</b>	<b>0.0284</b>	<b>0.0000</b>	<b>16.7253</b>	<b>16.7253</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8606</b>

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**3.3 Site Preparation - 2023**

**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	2.9000e-004	2.3000e-004	3.0700e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7949	0.7949	2.0000e-005	2.0000e-005	0.8015
<b>Total</b>	<b>2.9000e-004</b>	<b>2.3000e-004</b>	<b>3.0700e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7949</b>	<b>0.7949</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8015</b>

**3.4 Grading - 2023**

**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					0.0647	0.0000	0.0647	0.0336	0.0000	0.0336	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1794	0.1475	3.0000e-004		7.7500e-003	7.7500e-003		7.1300e-003	7.1300e-003	0.0000	26.0606	26.0606	8.4300e-003	0.0000	26.2713
<b>Total</b>	<b>0.0171</b>	<b>0.1794</b>	<b>0.1475</b>	<b>3.0000e-004</b>	<b>0.0647</b>	<b>7.7500e-003</b>	<b>0.0725</b>	<b>0.0336</b>	<b>7.1300e-003</b>	<b>0.0407</b>	<b>0.0000</b>	<b>26.0606</b>	<b>26.0606</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.2713</b>

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**3.4 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	3.8000e-004	5.1200e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3248	1.3248	3.0000e-005	3.0000e-005	1.3358
<b>Total</b>	<b>4.8000e-004</b>	<b>3.8000e-004</b>	<b>5.1200e-003</b>	<b>1.0000e-005</b>	<b>1.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.3248</b>	<b>1.3248</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.3358</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0291	0.0000	0.0291	0.0151	0.0000	0.0151	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1794	0.1475	3.0000e-004		7.7500e-003	7.7500e-003		7.1300e-003	7.1300e-003	0.0000	26.0606	26.0606	8.4300e-003	0.0000	26.2713
<b>Total</b>	<b>0.0171</b>	<b>0.1794</b>	<b>0.1475</b>	<b>3.0000e-004</b>	<b>0.0291</b>	<b>7.7500e-003</b>	<b>0.0369</b>	<b>0.0151</b>	<b>7.1300e-003</b>	<b>0.0222</b>	<b>0.0000</b>	<b>26.0606</b>	<b>26.0606</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.2713</b>

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**3.4 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	3.8000e-004	5.1200e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3248	1.3248	3.0000e-005	3.0000e-005	1.3358
<b>Total</b>	<b>4.8000e-004</b>	<b>3.8000e-004</b>	<b>5.1200e-003</b>	<b>1.0000e-005</b>	<b>1.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.3248</b>	<b>1.3248</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.3358</b>

**3.5 Building Construction - 2023**

**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	0.1651	1.5104	1.7056	2.8300e-003		0.0735	0.0735		0.0691	0.0691	0.0000	243.3950	243.3950	0.0579	0.0000	244.8425
<b>Total</b>	<b>0.1651</b>	<b>1.5104</b>	<b>1.7056</b>	<b>2.8300e-003</b>		<b>0.0735</b>	<b>0.0735</b>		<b>0.0691</b>	<b>0.0691</b>	<b>0.0000</b>	<b>243.3950</b>	<b>243.3950</b>	<b>0.0579</b>	<b>0.0000</b>	<b>244.8425</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2023**

**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	7.1200e-003	0.2539	0.0950	1.1700e-003	0.0397	1.2200e-003	0.0409	0.0115	1.1700e-003	0.0126	0.0000	114.5480	114.5480	3.8300e-003	0.0165	119.5563
Worker	0.0513	0.0408	0.5524	1.5400e-003	0.1772	1.0900e-003	0.1783	0.0471	1.0000e-003	0.0481	0.0000	142.8096	142.8096	3.7500e-003	3.6700e-003	143.9975
<b>Total</b>	<b>0.0585</b>	<b>0.2947</b>	<b>0.6475</b>	<b>2.7100e-003</b>	<b>0.2169</b>	<b>2.3100e-003</b>	<b>0.2192</b>	<b>0.0585</b>	<b>2.1700e-003</b>	<b>0.0607</b>	<b>0.0000</b>	<b>257.3576</b>	<b>257.3576</b>	<b>7.5800e-003</b>	<b>0.0202</b>	<b>263.5538</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1651	1.5104	1.7056	2.8300e-003		0.0735	0.0735		0.0691	0.0691	0.0000	243.3947	243.3947	0.0579	0.0000	244.8422
<b>Total</b>	<b>0.1651</b>	<b>1.5104</b>	<b>1.7056</b>	<b>2.8300e-003</b>		<b>0.0735</b>	<b>0.0735</b>		<b>0.0691</b>	<b>0.0691</b>	<b>0.0000</b>	<b>243.3947</b>	<b>243.3947</b>	<b>0.0579</b>	<b>0.0000</b>	<b>244.8422</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2023**

**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	7.1200e-003	0.2539	0.0950	1.1700e-003	0.0397	1.2200e-003	0.0409	0.0115	1.1700e-003	0.0126	0.0000	114.5480	114.5480	3.8300e-003	0.0165	119.5563
Worker	0.0513	0.0408	0.5524	1.5400e-003	0.1772	1.0900e-003	0.1783	0.0471	1.0000e-003	0.0481	0.0000	142.8096	142.8096	3.7500e-003	3.6700e-003	143.9975
<b>Total</b>	<b>0.0585</b>	<b>0.2947</b>	<b>0.6475</b>	<b>2.7100e-003</b>	<b>0.2169</b>	<b>2.3100e-003</b>	<b>0.2192</b>	<b>0.0585</b>	<b>2.1700e-003</b>	<b>0.0607</b>	<b>0.0000</b>	<b>257.3576</b>	<b>257.3576</b>	<b>7.5800e-003</b>	<b>0.0202</b>	<b>263.5538</b>

**3.5 Building Construction - 2024**

**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	0.0147	0.1344	0.1617	2.7000e-004		6.1300e-003	6.1300e-003		5.7700e-003	5.7700e-003	0.0000	23.1849	23.1849	5.4800e-003	0.0000	23.3220
<b>Total</b>	<b>0.0147</b>	<b>0.1344</b>	<b>0.1617</b>	<b>2.7000e-004</b>		<b>6.1300e-003</b>	<b>6.1300e-003</b>		<b>5.7700e-003</b>	<b>5.7700e-003</b>	<b>0.0000</b>	<b>23.1849</b>	<b>23.1849</b>	<b>5.4800e-003</b>	<b>0.0000</b>	<b>23.3220</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2024**

**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	6.6000e-004	0.0242	8.8600e-003	1.1000e-004	3.7800e-003	1.2000e-004	3.9000e-003	1.0900e-003	1.1000e-004	1.2000e-003	0.0000	10.7457	10.7457	3.7000e-004	1.5500e-003	11.2161
Worker	4.5600e-003	3.4700e-003	0.0490	1.4000e-004	0.0169	1.0000e-004	0.0170	4.4800e-003	9.0000e-005	4.5700e-003	0.0000	13.3215	13.3215	3.2000e-004	3.3000e-004	13.4264
<b>Total</b>	<b>5.2200e-003</b>	<b>0.0277</b>	<b>0.0579</b>	<b>2.5000e-004</b>	<b>0.0207</b>	<b>2.2000e-004</b>	<b>0.0209</b>	<b>5.5700e-003</b>	<b>2.0000e-004</b>	<b>5.7700e-003</b>	<b>0.0000</b>	<b>24.0671</b>	<b>24.0671</b>	<b>6.9000e-004</b>	<b>1.8800e-003</b>	<b>24.6425</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0147	0.1344	0.1617	2.7000e-004		6.1300e-003	6.1300e-003		5.7700e-003	5.7700e-003	0.0000	23.1849	23.1849	5.4800e-003	0.0000	23.3220
<b>Total</b>	<b>0.0147</b>	<b>0.1344</b>	<b>0.1617</b>	<b>2.7000e-004</b>		<b>6.1300e-003</b>	<b>6.1300e-003</b>		<b>5.7700e-003</b>	<b>5.7700e-003</b>	<b>0.0000</b>	<b>23.1849</b>	<b>23.1849</b>	<b>5.4800e-003</b>	<b>0.0000</b>	<b>23.3220</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2024**

**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	6.6000e-004	0.0242	8.8600e-003	1.1000e-004	3.7800e-003	1.2000e-004	3.9000e-003	1.0900e-003	1.1000e-004	1.2000e-003	0.0000	10.7457	10.7457	3.7000e-004	1.5500e-003	11.2161
Worker	4.5600e-003	3.4700e-003	0.0490	1.4000e-004	0.0169	1.0000e-004	0.0170	4.4800e-003	9.0000e-005	4.5700e-003	0.0000	13.3215	13.3215	3.2000e-004	3.3000e-004	13.4264
<b>Total</b>	<b>5.2200e-003</b>	<b>0.0277</b>	<b>0.0579</b>	<b>2.5000e-004</b>	<b>0.0207</b>	<b>2.2000e-004</b>	<b>0.0209</b>	<b>5.5700e-003</b>	<b>2.0000e-004</b>	<b>5.7700e-003</b>	<b>0.0000</b>	<b>24.0671</b>	<b>24.0671</b>	<b>6.9000e-004</b>	<b>1.8800e-003</b>	<b>24.6425</b>

**3.6 Paving - 2024**

**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	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1885
Paving	5.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0152</b>	<b>0.0953</b>	<b>0.1463</b>	<b>2.3000e-004</b>		<b>4.6900e-003</b>	<b>4.6900e-003</b>		<b>4.3100e-003</b>	<b>4.3100e-003</b>	<b>0.0000</b>	<b>20.0265</b>	<b>20.0265</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1885</b>

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**3.6 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	3.4000e-004	4.7700e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2976	1.2976	3.0000e-005	3.0000e-005	1.3078
<b>Total</b>	<b>4.4000e-004</b>	<b>3.4000e-004</b>	<b>4.7700e-003</b>	<b>1.0000e-005</b>	<b>1.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.2976</b>	<b>1.2976</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.3078</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1884
Paving	5.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0152</b>	<b>0.0953</b>	<b>0.1463</b>	<b>2.3000e-004</b>		<b>4.6900e-003</b>	<b>4.6900e-003</b>		<b>4.3100e-003</b>	<b>4.3100e-003</b>	<b>0.0000</b>	<b>20.0265</b>	<b>20.0265</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1884</b>

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**3.6 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	3.4000e-004	4.7700e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2976	1.2976	3.0000e-005	3.0000e-005	1.3078
<b>Total</b>	<b>4.4000e-004</b>	<b>3.4000e-004</b>	<b>4.7700e-003</b>	<b>1.0000e-005</b>	<b>1.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.2976</b>	<b>1.2976</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.3078</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9094					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2400e-003	0.0421	0.0625	1.0000e-004		2.1000e-003	2.1000e-003		2.1000e-003	2.1000e-003	0.0000	8.8087	8.8087	5.0000e-004	0.0000	8.8211
<b>Total</b>	<b>0.9156</b>	<b>0.0421</b>	<b>0.0625</b>	<b>1.0000e-004</b>		<b>2.1000e-003</b>	<b>2.1000e-003</b>		<b>2.1000e-003</b>	<b>2.1000e-003</b>	<b>0.0000</b>	<b>8.8087</b>	<b>8.8087</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>8.8211</b>

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**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1700e-003	2.4100e-003	0.0340	1.0000e-004	0.0117	7.0000e-005	0.0118	3.1100e-003	6.0000e-005	3.1800e-003	0.0000	9.2515	9.2515	2.2000e-004	2.3000e-004	9.3244
<b>Total</b>	<b>3.1700e-003</b>	<b>2.4100e-003</b>	<b>0.0340</b>	<b>1.0000e-004</b>	<b>0.0117</b>	<b>7.0000e-005</b>	<b>0.0118</b>	<b>3.1100e-003</b>	<b>6.0000e-005</b>	<b>3.1800e-003</b>	<b>0.0000</b>	<b>9.2515</b>	<b>9.2515</b>	<b>2.2000e-004</b>	<b>2.3000e-004</b>	<b>9.3244</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9094					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2400e-003	0.0421	0.0625	1.0000e-004		2.1000e-003	2.1000e-003		2.1000e-003	2.1000e-003	0.0000	8.8087	8.8087	5.0000e-004	0.0000	8.8211
<b>Total</b>	<b>0.9156</b>	<b>0.0421</b>	<b>0.0625</b>	<b>1.0000e-004</b>		<b>2.1000e-003</b>	<b>2.1000e-003</b>		<b>2.1000e-003</b>	<b>2.1000e-003</b>	<b>0.0000</b>	<b>8.8087</b>	<b>8.8087</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>8.8211</b>

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**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1700e-003	2.4100e-003	0.0340	1.0000e-004	0.0117	7.0000e-005	0.0118	3.1100e-003	6.0000e-005	3.1800e-003	0.0000	9.2515	9.2515	2.2000e-004	2.3000e-004	9.3244
<b>Total</b>	<b>3.1700e-003</b>	<b>2.4100e-003</b>	<b>0.0340</b>	<b>1.0000e-004</b>	<b>0.0117</b>	<b>7.0000e-005</b>	<b>0.0118</b>	<b>3.1100e-003</b>	<b>6.0000e-005</b>	<b>3.1800e-003</b>	<b>0.0000</b>	<b>9.2515</b>	<b>9.2515</b>	<b>2.2000e-004</b>	<b>2.3000e-004</b>	<b>9.3244</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5876	0.7142	6.5135	0.0147	1.5605	0.0106	1.5711	0.4163	9.8800e-003	0.4262	0.0000	1,380.2635	1,380.2635	0.0886	0.0568	1,399.3912
Unmitigated	0.5876	0.7142	6.5135	0.0147	1.5605	0.0106	1.5711	0.4163	9.8800e-003	0.4262	0.0000	1,380.2635	1,380.2635	0.0886	0.0568	1,399.3912

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	108.40	108.40	108.40	349,206	349,206
Manufacturing	859.09	859.09	859.09	3,804,267	3,804,267
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>967.49</b>	<b>967.49</b>	<b>967.49</b>	<b>4,153,473</b>	<b>4,153,473</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Manufacturing	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352



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Parking Lot	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	300.2134	300.2134	0.0253	3.0700e-003	301.7621
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	300.2134	300.2134	0.0253	3.0700e-003	301.7621
NaturalGas Mitigated	0.0207	0.1885	0.1583	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	205.1920	205.1920	3.9300e-003	3.7600e-003	206.4114
NaturalGas Unmitigated	0.0207	0.1885	0.1583	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	205.1920	205.1920	3.9300e-003	3.7600e-003	206.4114

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas 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					
General Office Building	90500	4.9000e-004	4.4400e-003	3.7300e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.8294	4.8294	9.0000e-005	9.0000e-005	4.8581
Manufacturing	3.75465e+006	0.0203	0.1841	0.1546	1.1000e-003		0.0140	0.0140		0.0140	0.0140	0.0000	200.3626	200.3626	3.8400e-003	3.6700e-003	201.5533
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0207</b>	<b>0.1885</b>	<b>0.1583</b>	<b>1.1300e-003</b>		<b>0.0143</b>	<b>0.0143</b>		<b>0.0143</b>	<b>0.0143</b>	<b>0.0000</b>	<b>205.1920</b>	<b>205.1920</b>	<b>3.9300e-003</b>	<b>3.7600e-003</b>	<b>206.4114</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

	Natural Gas 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					
General Office Building	90500	4.9000e-004	4.4400e-003	3.7300e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.8294	4.8294	9.0000e-005	9.0000e-005	4.8581
Manufacturing	3.75465e+006	0.0203	0.1841	0.1546	1.1000e-003		0.0140	0.0140		0.0140	0.0140	0.0000	200.3626	200.3626	3.8400e-003	3.6700e-003	201.5533
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0207</b>	<b>0.1885</b>	<b>0.1583</b>	<b>1.1300e-003</b>		<b>0.0143</b>	<b>0.0143</b>		<b>0.0143</b>	<b>0.0143</b>	<b>0.0000</b>	<b>205.1920</b>	<b>205.1920</b>	<b>3.9300e-003</b>	<b>3.7600e-003</b>	<b>206.4114</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	134900	23.9239	2.0200e-003	2.4000e-004	24.0473
Manufacturing	1.49571e+006	265.2579	0.0224	2.7100e-003	266.6263
Parking Lot	62203.7	11.0316	9.3000e-004	1.1000e-004	11.0885
<b>Total</b>		<b>300.2134</b>	<b>0.0253</b>	<b>3.0600e-003</b>	<b>301.7621</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	134900	23.9239	2.0200e-003	2.4000e-004	24.0473
Manufacturing	1.49571e+006	265.2579	0.0224	2.7100e-003	266.6263
Parking Lot	62203.7	11.0316	9.3000e-004	1.1000e-004	11.0885
<b>Total</b>		<b>300.2134</b>	<b>0.0253</b>	<b>3.0600e-003</b>	<b>301.7621</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7923	2.0000e-005	2.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.8400e-003	4.8400e-003	1.0000e-005	0.0000	5.1500e-003
Unmitigated	0.7923	2.0000e-005	2.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.8400e-003	4.8400e-003	1.0000e-005	0.0000	5.1500e-003

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0909					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7012					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.8400e-003	4.8400e-003	1.0000e-005	0.0000	5.1500e-003
<b>Total</b>	<b>0.7923</b>	<b>2.0000e-005</b>	<b>2.4800e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.8400e-003</b>	<b>4.8400e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.1500e-003</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0909					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7012					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.8400e-003	4.8400e-003	1.0000e-005	0.0000	5.1500e-003
<b>Total</b>	<b>0.7923</b>	<b>2.0000e-005</b>	<b>2.4800e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.8400e-003</b>	<b>4.8400e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.1500e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	116.6636	1.4294	0.0346	162.7097
Unmitigated	116.6636	1.4294	0.0346	162.7097

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.77734 / 1.08934	6.8145	0.0584	1.4300e-003	8.7021
Manufacturing	41.8239 / 0	109.8492	1.3710	0.0332	154.0077
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>116.6636</b>	<b>1.4294</b>	<b>0.0346</b>	<b>162.7097</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.77734 / 1.08934	6.8145	0.0584	1.4300e-003	8.7021
Manufacturing	41.8239 / 0	109.8492	1.3710	0.0332	154.0077
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>116.6636</b>	<b>1.4294</b>	<b>0.0346</b>	<b>162.7097</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	47.4126	2.8020	0.0000	117.4627
Unmitigated	47.4126	2.8020	0.0000	117.4627

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	9.3	1.8878	0.1116	0.0000	4.6770
Manufacturing	224.27	45.5248	2.6904	0.0000	112.7857
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>47.4126</b>	<b>2.8020</b>	<b>0.0000</b>	<b>117.4627</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	9.3	1.8878	0.1116	0.0000	4.6770
Manufacturing	224.27	45.5248	2.6904	0.0000	112.7857
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>47.4126</b>	<b>2.8020</b>	<b>0.0000</b>	<b>117.4627</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**11.0 Vegetation**

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