

# **Appendix B – Air Quality CalEEMod Modeling Assumptions**

## Construction Equipment Lists

**Table 1: Proposed Action**

Phase	PV Equipment List			CalEEMod List			
	Equipment Type	Quantity	HP	Equipment Type	Quantity	HP	Tier
1 – Pre-demolition Activities	135' Boom Lifts	2	Not specified	Aerial Lift	2	75	4
	54' Reach Forks (Gradell)	2	Not specified	Forklift	2	130	Statewide Average
	68" Bobcats	2	Not specified	Skid Steer Loaders	2	65	Statewide Average
	56KW Power Generators	2	75	Generator	2	75	Statewide Average
	FE50 Demolition Excavator	2	313	Excavator	2	313	Statewide Average
	60' Swing Stages	2	Not specified	Other Construction Equipment	2	30	Statewide Average
	185' Manlift	1	99	Aerial Lift	1	99	4
2 and 3- Demolition and Waste Disposal Recycling	FE 180 Demolition Excavator	1	760	Excavator	1	760	4
	FE210 Demolition Excavator	1	532	Excavator	1	532	Statewide Average
	FE200 Demolition Excavator	1	532	Excavator	1	532	Statewide Average
	FE115 Demolition Excavator	1	532	Excavator	1	532	4
	FE50 Demolition Excavator	3	313	Excavator	3	313	4
	Linkbelt TR8090 Crane 90 ton	1	270	Crane	1	270	4
	185' Manlift	2	99	Aerial Lift	2	99	4
	Cat 246D Skid Steer	2	74	Skid Steer Loaders	2	74	4
	Ford F650 Water Truck	1	440	Off-highway Truck	1	440	Statewide Average

**Table 2: Alternative 2 – Partial Preservation**

Phase	PV Equipment List			CalEEMod List			
	Equipment Type	Quantity	HP	Equipment Type	Quantity	HP	Tier
1 – Pre-demolition Activities	135' Boom Lifts	2	Not specified	Aerial Lift	2	75	4
	54' Reach Forks (Gradell)	2	Not specified	Forklift	2	130	Statewide Average
	68" Bobcats	2	Not specified	Skid Steer Loaders	2	65	Statewide Average
	56KW Power Generators	2	75	Generator	2	75	Statewide Average
	FE50 Demolition Excavator	2	313	Excavator	2	313	Statewide Average
	60' Swing Stages	2	Not specified	Other Construction Equipment	2	30	Statewide Average
	185' Manlift	1	99	Aerial Lift	1	99	4
2 and 3- Demolition and Waste Disposal Recycling	FE 180 Demolition Excavator	1	760	Excavator	1	760	4
	FE210 Demolition Excavator	1	532	Excavator	1	532	Statewide Average
	FE200 Demolition Excavator	1	532	Excavator	1	532	Statewide Average
	FE115 Demolition Excavator	1	532	Excavator	1	532	4
	FE50 Demolition Excavator	3	313	Excavator	3	313	4
	Linkbelt TR8090 Crane 90 ton	1	270	Crane	1*	270	4
	185' Manlift	2	99	Aerial Lift	2	99	4
	Cat 246D Skid Steer	2	74	Skid Steer Loaders	2	74	4
	Ford F650 Water Truck	1	440	Off-highway Truck	1	440	Statewide Average
4 – Structural Upgrades and Renovations	135' Boom Lift	2	Not specified	Aerial Lift	2	75	Statewide Average
	54' Reach Forks (Gradell)	1	Not specified	Forklift	1	130	Statewide Average
	56KW Power Generator	1	75	Generator	1	75	Statewide Average
	185' Manlift	2	99	Aerial Lift	2	99	4
	Bore/Drill Rig	1	221	Bore/Drill Rig	1	221	Statewide Average
	Linkbel TR8090 Crane 90 ton	1	270	Crane	1*	270	4

\*indicates equipment that is expected to operate 6 hours/day.

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

**Hangar 3 Facility  
Bay Area AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	784.00	1000sqft	18.00	784,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	4			<b>Operational Year</b>	2023
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<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 -

Construction Phase - Based on construction schedule as described in the Project Description.

Off-road Equipment - Construction equipment provided by PV.

Off-road Equipment - Construction equipment information received from PV.

Trips and VMT - Trips and milage based on information received from PV. Hauling distance for hazard materials (pre-demolition) is an average distance between the proposed disposal sites.

Demolition -

Grading -

Vehicle Trips - No operational trips.

Vehicle Emission Factors -

Vehicle Emission Factors -

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

Vehicle Emission Factors -

Area Coating - No operational impacts.

Energy Use - No operational impacts.

Water And Wastewater - No operational impacts.

Solid Waste - No operational impacts.

Construction Off-road Equipment Mitigation - 5,000 gallons of water will be used to water the site per day. Tiered equipment based on description from PV (see construction equipment list [Table 1]).

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	392000	0
tblAreaCoating	Area_Nonresidential_Interior	1176000	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	125.00
tblConstructionPhase	NumDays	10.00	90.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	T24E	1.32	0.00
tblEnergyUse	T24NG	19.51	0.00
tblOffRoadEquipment	HorsePower	158.00	760.00
tblOffRoadEquipment	HorsePower	158.00	313.00
tblOffRoadEquipment	HorsePower	158.00	532.00
tblOffRoadEquipment	HorsePower	63.00	75.00

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tblOffRoadEquipment	HorsePower	63.00	99.00
tblOffRoadEquipment	HorsePower	63.00	99.00
tblOffRoadEquipment	HorsePower	231.00	270.00
tblOffRoadEquipment	HorsePower	158.00	313.00
tblOffRoadEquipment	HorsePower	89.00	130.00
tblOffRoadEquipment	HorsePower	84.00	75.00
tblOffRoadEquipment	HorsePower	124.00	440.00
tblOffRoadEquipment	HorsePower	172.00	30.00
tblOffRoadEquipment	HorsePower	65.00	74.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblSolidWaste	SolidWasteGenerationRate	972.16	0.00
tblTripsAndVMT	HaulingTripLength	20.00	350.00
tblTripsAndVMT	HaulingTripNumber	0.00	360.00
tblTripsAndVMT	HaulingTripNumber	3,673.00	4,000.00
tblTripsAndVMT	WorkerTripNumber	33.00	100.00
tblTripsAndVMT	WorkerTripNumber	33.00	40.00
tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips	SU_TR	5.09	0.00
tblVehicleTrips	WD_TR	3.93	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	181,300,000.00	0.00

**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					
2021	0.0673	0.7511	0.6371	2.2700e-003	0.0444	0.0251	0.0695	0.0120	0.0238	0.0359	0.0000	210.0964	210.0964	0.0293	0.0159	215.5654
2022	0.2649	2.7647	2.5356	9.8800e-003	0.4954	0.0860	0.5814	0.0868	0.0798	0.1666	0.0000	892.4675	892.4675	0.2096	0.0358	908.3683
<b>Maximum</b>	<b>0.2649</b>	<b>2.7647</b>	<b>2.5356</b>	<b>9.8800e-003</b>	<b>0.4954</b>	<b>0.0860</b>	<b>0.5814</b>	<b>0.0868</b>	<b>0.0798</b>	<b>0.1666</b>	<b>0.0000</b>	<b>892.4675</b>	<b>892.4675</b>	<b>0.2096</b>	<b>0.0358</b>	<b>908.3683</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					
2021	0.0609	0.6536	0.7149	2.2700e-003	0.0444	0.0216	0.0660	0.0120	0.0207	0.0327	0.0000	210.0963	210.0963	0.0293	0.0159	215.5652
2022	0.1901	1.8383	3.2969	9.8800e-003	0.2768	0.0498	0.3266	0.0537	0.0470	0.1007	0.0000	892.4667	892.4667	0.2096	0.0358	908.3675
<b>Maximum</b>	<b>0.1901</b>	<b>1.8383</b>	<b>3.2969</b>	<b>9.8800e-003</b>	<b>0.2768</b>	<b>0.0498</b>	<b>0.3266</b>	<b>0.0537</b>	<b>0.0470</b>	<b>0.1007</b>	<b>0.0000</b>	<b>892.4667</b>	<b>892.4667</b>	<b>0.2096</b>	<b>0.0358</b>	<b>908.3675</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	24.43	29.12	-26.45	0.00	40.50	35.72	39.68	33.50	34.65	34.09	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	1-1-2022	3-31-2022	1.3839	1.1244
2	4-1-2022	6-30-2022	2.2148	1.6180
3	7-1-2022	9-30-2022	1.3873	1.0135
		Highest	2.2148	1.6180

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.0626	7.0000e-005	7.2000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0140	0.0140	4.0000e-005	0.0000	0.0149
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.0626</b>	<b>7.0000e-005</b>	<b>7.2000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0140</b>	<b>0.0140</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0149</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	3.0626	7.0000e-005	7.2000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0140	0.0140	4.0000e-005	0.0000	0.0149
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.0626</b>	<b>7.0000e-005</b>	<b>7.2000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0140</b>	<b>0.0140</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0149</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	Pre-Demolition	Site Preparation	11/1/2021	3/4/2022	5	90	
2	Demolition	Demolition	3/5/2022	8/26/2022	5	125	

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

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Pre-Demolition	Aerial Lifts	2	8.00	75	0.31
Pre-Demolition	Aerial Lifts	1	8.00	99	0.31
Pre-Demolition	Excavators	2	8.00	313	0.38
Pre-Demolition	Forklifts	2	8.00	130	0.20
Pre-Demolition	Generator Sets	2	8.00	75	0.74
Pre-Demolition	Other Construction Equipment	2	8.00	30	0.42
Pre-Demolition	Skid Steer Loaders	2	8.00	65	0.37
Demolition	Aerial Lifts	2	8.00	99	0.31
Demolition	Cranes	1	8.00	270	0.29
Demolition	Excavators	1	8.00	760	0.38
Demolition	Excavators	3	8.00	313	0.38
Demolition	Excavators	3	8.00	532	0.38
Demolition	Off-Highway Tractors	1	8.00	440	0.44
Demolition	Skid Steer Loaders	2	8.00	74	0.37

**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
Pre-Demolition	13	100.00	0.00	360.00	10.80	7.30	350.00	LD_Mix	HDT_Mix	HHDT
Demolition	13	40.00	0.00	4,000.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Pre-Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0510	0.4608	0.5303	1.1200e-003		0.0209	0.0209		0.0197	0.0197	0.0000	97.8435	97.8435	0.0255	0.0000	98.4800
<b>Total</b>	<b>0.0510</b>	<b>0.4608</b>	<b>0.5303</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>0.0209</b>	<b>0.0209</b>	<b>0.0000</b>	<b>0.0197</b>	<b>0.0197</b>	<b>0.0000</b>	<b>97.8435</b>	<b>97.8435</b>	<b>0.0255</b>	<b>0.0000</b>	<b>98.4800</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 Pre-Demolition - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.5600e-003	0.2853	0.0483	9.9000e-004	0.0266	4.1600e-003	0.0308	7.3100e-003	3.9800e-003	0.0113	0.0000	97.5697	97.5697	3.3000e-003	0.0155	102.2565
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	6.6600e-003	5.0600e-003	0.0584	1.6000e-004	0.0178	1.0000e-004	0.0179	4.7300e-003	9.0000e-005	4.8200e-003	0.0000	14.6832	14.6832	4.9000e-004	4.5000e-004	14.8288
<b>Total</b>	<b>0.0162</b>	<b>0.2904</b>	<b>0.1067</b>	<b>1.1500e-003</b>	<b>0.0444</b>	<b>4.2600e-003</b>	<b>0.0486</b>	<b>0.0120</b>	<b>4.0700e-003</b>	<b>0.0161</b>	<b>0.0000</b>	<b>112.2529</b>	<b>112.2529</b>	<b>3.7900e-003</b>	<b>0.0159</b>	<b>117.0853</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0447	0.3633	0.6082	1.1200e-003		0.0174	0.0174		0.0166	0.0166	0.0000	97.8434	97.8434	0.0255	0.0000	98.4799
<b>Total</b>	<b>0.0447</b>	<b>0.3633</b>	<b>0.6082</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>0.0174</b>	<b>0.0174</b>	<b>0.0000</b>	<b>0.0166</b>	<b>0.0166</b>	<b>0.0000</b>	<b>97.8434</b>	<b>97.8434</b>	<b>0.0255</b>	<b>0.0000</b>	<b>98.4799</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 Pre-Demolition - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.5600e-003	0.2853	0.0483	9.9000e-004	0.0266	4.1600e-003	0.0308	7.3100e-003	3.9800e-003	0.0113	0.0000	97.5697	97.5697	3.3000e-003	0.0155	102.2565
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	6.6600e-003	5.0600e-003	0.0584	1.6000e-004	0.0178	1.0000e-004	0.0179	4.7300e-003	9.0000e-005	4.8200e-003	0.0000	14.6832	14.6832	4.9000e-004	4.5000e-004	14.8288
<b>Total</b>	<b>0.0162</b>	<b>0.2904</b>	<b>0.1067</b>	<b>1.1500e-003</b>	<b>0.0444</b>	<b>4.2600e-003</b>	<b>0.0486</b>	<b>0.0120</b>	<b>4.0700e-003</b>	<b>0.0161</b>	<b>0.0000</b>	<b>112.2529</b>	<b>112.2529</b>	<b>3.7900e-003</b>	<b>0.0159</b>	<b>117.0853</b>

**3.2 Pre-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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0465	0.4060	0.5252	1.1200e-003		0.0179	0.0179		0.0169	0.0169	0.0000	97.8722	97.8722	0.0254	0.0000	98.5069
<b>Total</b>	<b>0.0465</b>	<b>0.4060</b>	<b>0.5252</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>0.0179</b>	<b>0.0179</b>	<b>0.0000</b>	<b>0.0169</b>	<b>0.0169</b>	<b>0.0000</b>	<b>97.8722</b>	<b>97.8722</b>	<b>0.0254</b>	<b>0.0000</b>	<b>98.5069</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 Pre-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	5.9100e-003	0.2439	0.0381	9.6000e-004	0.0266	2.4100e-003	0.0290	7.3100e-003	2.3100e-003	9.6200e-003	0.0000	95.0025	95.0025	3.1600e-003	0.0151	99.5663
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	6.1800e-003	4.4500e-003	0.0538	1.5000e-004	0.0178	1.0000e-004	0.0179	4.7300e-003	9.0000e-005	4.8200e-003	0.0000	14.2991	14.2991	4.4000e-004	4.1000e-004	14.4331
<b>Total</b>	<b>0.0121</b>	<b>0.2484</b>	<b>0.0919</b>	<b>1.1100e-003</b>	<b>0.0444</b>	<b>2.5100e-003</b>	<b>0.0469</b>	<b>0.0120</b>	<b>2.4000e-003</b>	<b>0.0144</b>	<b>0.0000</b>	<b>109.3016</b>	<b>109.3016</b>	<b>3.6000e-003</b>	<b>0.0155</b>	<b>113.9994</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0412	0.3289	0.6045	1.1200e-003		0.0151	0.0151		0.0144	0.0144	0.0000	97.8721	97.8721	0.0254	0.0000	98.5068
<b>Total</b>	<b>0.0412</b>	<b>0.3289</b>	<b>0.6045</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>0.0151</b>	<b>0.0151</b>	<b>0.0000</b>	<b>0.0144</b>	<b>0.0144</b>	<b>0.0000</b>	<b>97.8721</b>	<b>97.8721</b>	<b>0.0254</b>	<b>0.0000</b>	<b>98.5068</b>

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**3.2 Pre-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	5.9100e-003	0.2439	0.0381	9.6000e-004	0.0266	2.4100e-003	0.0290	7.3100e-003	2.3100e-003	9.6200e-003	0.0000	95.0025	95.0025	3.1600e-003	0.0151	99.5663
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	6.1800e-003	4.4500e-003	0.0538	1.5000e-004	0.0178	1.0000e-004	0.0179	4.7300e-003	9.0000e-005	4.8200e-003	0.0000	14.2991	14.2991	4.4000e-004	4.1000e-004	14.4331
<b>Total</b>	<b>0.0121</b>	<b>0.2484</b>	<b>0.0919</b>	<b>1.1100e-003</b>	<b>0.0444</b>	<b>2.5100e-003</b>	<b>0.0469</b>	<b>0.0120</b>	<b>2.4000e-003</b>	<b>0.0144</b>	<b>0.0000</b>	<b>109.3016</b>	<b>109.3016</b>	<b>3.6000e-003</b>	<b>0.0155</b>	<b>113.9994</b>

**3.3 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					
Fugitive Dust					0.3975	0.0000	0.3975	0.0602	0.0000	0.0602	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1901	1.7610	1.7854	6.2000e-003		0.0624	0.0624		0.0574	0.0574	0.0000	544.0371	544.0371	0.1760	0.0000	548.4360
<b>Total</b>	<b>0.1901</b>	<b>1.7610</b>	<b>1.7854</b>	<b>6.2000e-003</b>	<b>0.3975</b>	<b>0.0624</b>	<b>0.4599</b>	<b>0.0602</b>	<b>0.0574</b>	<b>0.1176</b>	<b>0.0000</b>	<b>544.0371</b>	<b>544.0371</b>	<b>0.1760</b>	<b>0.0000</b>	<b>548.4360</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 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	9.3300e-003	0.3443	0.0732	1.2700e-003	0.0338	3.0900e-003	0.0369	9.3000e-003	2.9600e-003	0.0123	0.0000	125.3686	125.3686	4.1300e-003	0.0199	131.3892
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	6.8700e-003	4.9500e-003	0.0598	1.7000e-004	0.0198	1.1000e-004	0.0199	5.2600e-003	1.0000e-004	5.3500e-003	0.0000	15.8879	15.8879	4.9000e-004	4.6000e-004	16.0368
<b>Total</b>	<b>0.0162</b>	<b>0.3493</b>	<b>0.1330</b>	<b>1.4400e-003</b>	<b>0.0536</b>	<b>3.2000e-003</b>	<b>0.0568</b>	<b>0.0146</b>	<b>3.0600e-003</b>	<b>0.0176</b>	<b>0.0000</b>	<b>141.2565</b>	<b>141.2565</b>	<b>4.6200e-003</b>	<b>0.0203</b>	<b>147.4260</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					0.1789	0.0000	0.1789	0.0271	0.0000	0.0271	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1206	0.9117	2.4674	6.2000e-003		0.0290	0.0290		0.0272	0.0272	0.0000	544.0365	544.0365	0.1760	0.0000	548.4353
<b>Total</b>	<b>0.1206</b>	<b>0.9117</b>	<b>2.4674</b>	<b>6.2000e-003</b>	<b>0.1789</b>	<b>0.0290</b>	<b>0.2079</b>	<b>0.0271</b>	<b>0.0272</b>	<b>0.0542</b>	<b>0.0000</b>	<b>544.0365</b>	<b>544.0365</b>	<b>0.1760</b>	<b>0.0000</b>	<b>548.4353</b>



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**3.3 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	9.3300e-003	0.3443	0.0732	1.2700e-003	0.0338	3.0900e-003	0.0369	9.3000e-003	2.9600e-003	0.0123	0.0000	125.3686	125.3686	4.1300e-003	0.0199	131.3892
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	6.8700e-003	4.9500e-003	0.0598	1.7000e-004	0.0198	1.1000e-004	0.0199	5.2600e-003	1.0000e-004	5.3500e-003	0.0000	15.8879	15.8879	4.9000e-004	4.6000e-004	16.0368
<b>Total</b>	<b>0.0162</b>	<b>0.3493</b>	<b>0.1330</b>	<b>1.4400e-003</b>	<b>0.0536</b>	<b>3.2000e-003</b>	<b>0.0568</b>	<b>0.0146</b>	<b>3.0600e-003</b>	<b>0.0176</b>	<b>0.0000</b>	<b>141.2565</b>	<b>141.2565</b>	<b>4.6200e-003</b>	<b>0.0203</b>	<b>147.4260</b>

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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 Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928

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

**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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



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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 Heavy Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.0626	7.0000e-005	7.2000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0140	0.0140	4.0000e-005	0.0000	0.0149
Unmitigated	3.0626	7.0000e-005	7.2000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0140	0.0140	4.0000e-005	0.0000	0.0149

**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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.0619					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.7000e-004	7.0000e-005	7.2000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0140	0.0140	4.0000e-005	0.0000	0.0149
<b>Total</b>	<b>3.0626</b>	<b>7.0000e-005</b>	<b>7.2000e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0140</b>	<b>0.0140</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0149</b>

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**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.0619					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.7000e-004	7.0000e-005	7.2000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0140	0.0140	4.0000e-005	0.0000	0.0149
<b>Total</b>	<b>3.0626</b>	<b>7.0000e-005</b>	<b>7.2000e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0140</b>	<b>0.0140</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0149</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	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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 Heavy Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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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**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Hangar 3 Facility, Alternative 2 - Bay Area AQMD Air District, Annual

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

**Hangar 3 Facility, Alternative 2**

**Bay Area AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	784.00	1000sqft	18.00	784,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	4			<b>Operational Year</b>	2023
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use -

Construction Phase - Based on construction schedule as described in the Project Description.

Off-road Equipment - Construction equipment provided by PV.

Off-road Equipment - Construction equipment information received from PV.

Trips and VMT - Trips and milage based on information received from PV. Hauling distance for hazard materials (pre-demolition) is an average distance between the proposed disposal sites.

Demolition -

Grading -

Vehicle Trips - No operational trips.

Vehicle Emission Factors -

Vehicle Emission Factors -

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

Vehicle Emission Factors -

Area Coating - No operational impacts.

Energy Use - No operational impacts.

Water And Wastewater - No operational impacts.

Solid Waste - No operational impacts.

Construction Off-road Equipment Mitigation - 5,000 gallons of water will be used to water the site per day. Tiered equipment based on description from PV (see construction equipment list [Table 1]).

Off-road Equipment - PV provided construction equipment list.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	392000	0
tblAreaCoating	Area_Nonresidential_Interior	1176000	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	90.00
tblConstructionPhase	NumDays	20.00	125.00
tblConstructionPhase	NumDays	300.00	260.00
tblConstructionPhase	PhaseEndDate	12/10/2021	3/4/2022
tblConstructionPhase	PhaseStartDate	11/27/2021	11/1/2021
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	T24E	1.32	0.00
tblEnergyUse	T24NG	19.51	0.00

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

tblOffRoadEquipment	HorsePower	158.00	760.00
tblOffRoadEquipment	HorsePower	158.00	313.00
tblOffRoadEquipment	HorsePower	158.00	532.00
tblOffRoadEquipment	HorsePower	63.00	75.00
tblOffRoadEquipment	HorsePower	63.00	99.00
tblOffRoadEquipment	HorsePower	63.00	99.00
tblOffRoadEquipment	HorsePower	231.00	270.00
tblOffRoadEquipment	HorsePower	158.00	313.00
tblOffRoadEquipment	HorsePower	89.00	130.00
tblOffRoadEquipment	HorsePower	84.00	75.00
tblOffRoadEquipment	HorsePower	124.00	440.00
tblOffRoadEquipment	HorsePower	172.00	30.00
tblOffRoadEquipment	HorsePower	65.00	74.00
tblOffRoadEquipment	HorsePower	231.00	270.00
tblOffRoadEquipment	HorsePower	89.00	130.00
tblOffRoadEquipment	HorsePower	84.00	75.00
tblOffRoadEquipment	HorsePower	63.00	75.00
tblOffRoadEquipment	HorsePower	63.00	99.00
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType	Welders	Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Structural Upgrades
tblOffRoadEquipment	PhaseName		Structural Upgrades
tblOffRoadEquipment	PhaseName		Structural Upgrades
tblOffRoadEquipment	UsageHours	7.00	6.00
tblSolidWaste	SolidWasteGenerationRate	972.16	0.00
tblTripsAndVMT	HaulingTripLength	20.00	350.00
tblTripsAndVMT	HaulingTripNumber	0.00	360.00
tblTripsAndVMT	HaulingTripNumber	0.00	15,600.00
tblTripsAndVMT	VendorTripNumber	128.00	0.00
tblTripsAndVMT	WorkerTripNumber	33.00	100.00
tblTripsAndVMT	WorkerTripNumber	33.00	40.00
tblTripsAndVMT	WorkerTripNumber	329.00	60.00
tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips	SU_TR	5.09	0.00
tblVehicleTrips	WD_TR	3.93	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	181,300,000.00	0.00

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

**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					
2021	0.0673	0.7511	0.6371	2.2700e-003	0.0444	0.0251	0.0695	0.0120	0.0238	0.0359	0.0000	210.0964	210.0964	0.0293	0.0159	215.5654
2022	0.3252	3.5658	3.2996	0.0126	0.3924	0.1063	0.4987	0.0774	0.0991	0.1765	0.0000	1,139.9460	1,139.9460	0.2452	0.0543	1,162.2696
2023	0.1117	1.6337	1.5407	6.1300e-003	0.1265	0.0387	0.1653	0.0345	0.0366	0.0711	0.0000	573.1123	573.1123	0.0756	0.0491	589.6344
<b>Maximum</b>	<b>0.3252</b>	<b>3.5658</b>	<b>3.2996</b>	<b>0.0126</b>	<b>0.3924</b>	<b>0.1063</b>	<b>0.4987</b>	<b>0.0774</b>	<b>0.0991</b>	<b>0.1765</b>	<b>0.0000</b>	<b>1,139.9460</b>	<b>1,139.9460</b>	<b>0.2452</b>	<b>0.0543</b>	<b>1,162.2696</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					
2021	0.0616	0.6741	0.7077	2.2700e-003	0.0444	0.0220	0.0664	0.0120	0.0210	0.0330	0.0000	210.0963	210.0963	0.0293	0.0159	215.5652
2022	0.2565	2.7162	4.0628	0.0126	0.2591	0.0734	0.3326	0.0573	0.0694	0.1266	0.0000	1,139.9451	1,139.9451	0.2452	0.0543	1,162.2687
2023	0.1004	1.4201	1.5962	6.1300e-003	0.1265	0.0329	0.1595	0.0345	0.0314	0.0658	0.0000	573.1121	573.1121	0.0756	0.0491	589.6341
<b>Maximum</b>	<b>0.2565</b>	<b>2.7162</b>	<b>4.0628</b>	<b>0.0126</b>	<b>0.2591</b>	<b>0.0734</b>	<b>0.3326</b>	<b>0.0573</b>	<b>0.0694</b>	<b>0.1266</b>	<b>0.0000</b>	<b>1,139.9451</b>	<b>1,139.9451</b>	<b>0.2452</b>	<b>0.0543</b>	<b>1,162.2687</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	17.01	19.16	-16.23	0.00	23.66	24.58	23.88	16.28	23.71	20.46	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	11-1-2021	1-31-2022	1.1510	1.0399
2	2-1-2022	4-30-2022	1.6885	1.3641
3	5-1-2022	7-31-2022	2.1244	1.6524
4	8-1-2022	10-31-2022	1.1664	0.9636
5	11-1-2022	1-31-2023	0.7591	0.6656
6	2-1-2023	4-30-2023	0.6532	0.5691
7	5-1-2023	7-31-2023	0.6650	0.5780
8	8-1-2023	9-30-2023	0.1807	0.1571
		Highest	2.1244	1.6524

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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	3.0626	7.0000e-005	7.2000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0140	0.0140	4.0000e-005	0.0000	0.0149
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.0626</b>	<b>7.0000e-005</b>	<b>7.2000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0140</b>	<b>0.0140</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0149</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	3.0626	7.0000e-005	7.2000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0140	0.0140	4.0000e-005	0.0000	0.0149
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.0626</b>	<b>7.0000e-005</b>	<b>7.2000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0140</b>	<b>0.0140</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0149</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	Pre-Demolition	Site Preparation	11/1/2021	3/4/2022	5	90	
2	Demolition	Demolition	3/5/2022	8/26/2022	5	125	
3	Structural Upgrades	Building Construction	8/27/2022	8/25/2023	5	260	

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

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Pre-Demolition	Aerial Lifts	2	8.00	75	0.31
Pre-Demolition	Aerial Lifts	1	8.00	99	0.31
Pre-Demolition	Excavators	2	8.00	313	0.38
Pre-Demolition	Forklifts	2	8.00	130	0.20
Pre-Demolition	Generator Sets	2	8.00	75	0.74
Pre-Demolition	Other Construction Equipment	2	8.00	30	0.42
Pre-Demolition	Skid Steer Loaders	2	8.00	65	0.37
Demolition	Aerial Lifts	2	8.00	99	0.31
Demolition	Cranes	1	6.00	270	0.29
Demolition	Excavators	1	8.00	760	0.38
Demolition	Excavators	3	8.00	313	0.38
Demolition	Excavators	3	8.00	532	0.38
Demolition	Off-Highway Tractors	1	8.00	440	0.44
Demolition	Skid Steer Loaders	2	8.00	74	0.37
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Structural Upgrades	Cranes	1	6.00	270	0.29
Structural Upgrades	Forklifts	1	8.00	130	0.20
Structural Upgrades	Generator Sets	1	8.00	75	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Pre-Demolition	Rubber Tired Dozers	0	8.00	247	0.40

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

Structural Upgrades	Aerial Lifts	2	8.00	75	0.31
Pre-Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Structural Upgrades	Aerial Lifts	2	8.00	99	0.31
Structural Upgrades	Bore/Drill Rigs	1	8.00	221	0.50

**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
Pre-Demolition	13	100.00	0.00	360.00	10.80	7.30	350.00	LD_Mix	HDT_Mix	HHDT
Demolition	13	40.00	0.00	2,240.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Structural Upgrades	8	60.00	0.00	15,600.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Pre-Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0510	0.4608	0.5303	1.1200e-003		0.0209	0.0209		0.0197	0.0197	0.0000	97.8435	97.8435	0.0255	0.0000	98.4800
<b>Total</b>	<b>0.0510</b>	<b>0.4608</b>	<b>0.5303</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>0.0209</b>	<b>0.0209</b>	<b>0.0000</b>	<b>0.0197</b>	<b>0.0197</b>	<b>0.0000</b>	<b>97.8435</b>	<b>97.8435</b>	<b>0.0255</b>	<b>0.0000</b>	<b>98.4800</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 Pre-Demolition - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.5600e-003	0.2853	0.0483	9.9000e-004	0.0266	4.1600e-003	0.0308	7.3100e-003	3.9800e-003	0.0113	0.0000	97.5697	97.5697	3.3000e-003	0.0155	102.2565
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	6.6600e-003	5.0600e-003	0.0584	1.6000e-004	0.0178	1.0000e-004	0.0179	4.7300e-003	9.0000e-005	4.8200e-003	0.0000	14.6832	14.6832	4.9000e-004	4.5000e-004	14.8288
<b>Total</b>	<b>0.0162</b>	<b>0.2904</b>	<b>0.1067</b>	<b>1.1500e-003</b>	<b>0.0444</b>	<b>4.2600e-003</b>	<b>0.0486</b>	<b>0.0120</b>	<b>4.0700e-003</b>	<b>0.0161</b>	<b>0.0000</b>	<b>112.2529</b>	<b>112.2529</b>	<b>3.7900e-003</b>	<b>0.0159</b>	<b>117.0853</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0454	0.3837	0.6009	1.1200e-003		0.0177	0.0177		0.0169	0.0169	0.0000	97.8434	97.8434	0.0255	0.0000	98.4799
<b>Total</b>	<b>0.0454</b>	<b>0.3837</b>	<b>0.6009</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>0.0177</b>	<b>0.0177</b>	<b>0.0000</b>	<b>0.0169</b>	<b>0.0169</b>	<b>0.0000</b>	<b>97.8434</b>	<b>97.8434</b>	<b>0.0255</b>	<b>0.0000</b>	<b>98.4799</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 Pre-Demolition - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.5600e-003	0.2853	0.0483	9.9000e-004	0.0266	4.1600e-003	0.0308	7.3100e-003	3.9800e-003	0.0113	0.0000	97.5697	97.5697	3.3000e-003	0.0155	102.2565
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	6.6600e-003	5.0600e-003	0.0584	1.6000e-004	0.0178	1.0000e-004	0.0179	4.7300e-003	9.0000e-005	4.8200e-003	0.0000	14.6832	14.6832	4.9000e-004	4.5000e-004	14.8288
<b>Total</b>	<b>0.0162</b>	<b>0.2904</b>	<b>0.1067</b>	<b>1.1500e-003</b>	<b>0.0444</b>	<b>4.2600e-003</b>	<b>0.0486</b>	<b>0.0120</b>	<b>4.0700e-003</b>	<b>0.0161</b>	<b>0.0000</b>	<b>112.2529</b>	<b>112.2529</b>	<b>3.7900e-003</b>	<b>0.0159</b>	<b>117.0853</b>

**3.2 Pre-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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0465	0.4060	0.5252	1.1200e-003		0.0179	0.0179		0.0169	0.0169	0.0000	97.8722	97.8722	0.0254	0.0000	98.5069
<b>Total</b>	<b>0.0465</b>	<b>0.4060</b>	<b>0.5252</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>0.0179</b>	<b>0.0179</b>	<b>0.0000</b>	<b>0.0169</b>	<b>0.0169</b>	<b>0.0000</b>	<b>97.8722</b>	<b>97.8722</b>	<b>0.0254</b>	<b>0.0000</b>	<b>98.5069</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 Pre-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	5.9100e-003	0.2439	0.0381	9.6000e-004	0.0266	2.4100e-003	0.0290	7.3100e-003	2.3100e-003	9.6200e-003	0.0000	95.0025	95.0025	3.1600e-003	0.0151	99.5663
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	6.1800e-003	4.4500e-003	0.0538	1.5000e-004	0.0178	1.0000e-004	0.0179	4.7300e-003	9.0000e-005	4.8200e-003	0.0000	14.2991	14.2991	4.4000e-004	4.1000e-004	14.4331
<b>Total</b>	<b>0.0121</b>	<b>0.2484</b>	<b>0.0919</b>	<b>1.1100e-003</b>	<b>0.0444</b>	<b>2.5100e-003</b>	<b>0.0469</b>	<b>0.0120</b>	<b>2.4000e-003</b>	<b>0.0144</b>	<b>0.0000</b>	<b>109.3016</b>	<b>109.3016</b>	<b>3.6000e-003</b>	<b>0.0155</b>	<b>113.9994</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0418	0.3478	0.5973	1.1200e-003		0.0154	0.0154		0.0147	0.0147	0.0000	97.8721	97.8721	0.0254	0.0000	98.5068
<b>Total</b>	<b>0.0418</b>	<b>0.3478</b>	<b>0.5973</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>0.0154</b>	<b>0.0154</b>	<b>0.0000</b>	<b>0.0147</b>	<b>0.0147</b>	<b>0.0000</b>	<b>97.8721</b>	<b>97.8721</b>	<b>0.0254</b>	<b>0.0000</b>	<b>98.5068</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 Pre-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	5.9100e-003	0.2439	0.0381	9.6000e-004	0.0266	2.4100e-003	0.0290	7.3100e-003	2.3100e-003	9.6200e-003	0.0000	95.0025	95.0025	3.1600e-003	0.0151	99.5663
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	6.1800e-003	4.4500e-003	0.0538	1.5000e-004	0.0178	1.0000e-004	0.0179	4.7300e-003	9.0000e-005	4.8200e-003	0.0000	14.2991	14.2991	4.4000e-004	4.1000e-004	14.4331
<b>Total</b>	<b>0.0121</b>	<b>0.2484</b>	<b>0.0919</b>	<b>1.1100e-003</b>	<b>0.0444</b>	<b>2.5100e-003</b>	<b>0.0469</b>	<b>0.0120</b>	<b>2.4000e-003</b>	<b>0.0144</b>	<b>0.0000</b>	<b>109.3016</b>	<b>109.3016</b>	<b>3.6000e-003</b>	<b>0.0155</b>	<b>113.9994</b>

**3.3 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					
Fugitive Dust					0.2423	0.0000	0.2423	0.0367	0.0000	0.0367	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1844	1.6986	1.7377	6.0900e-003		0.0599	0.0599		0.0551	0.0551	0.0000	534.7942	534.7942	0.1730	0.0000	539.1183
<b>Total</b>	<b>0.1844</b>	<b>1.6986</b>	<b>1.7377</b>	<b>6.0900e-003</b>	<b>0.2423</b>	<b>0.0599</b>	<b>0.3022</b>	<b>0.0367</b>	<b>0.0551</b>	<b>0.0918</b>	<b>0.0000</b>	<b>534.7942</b>	<b>534.7942</b>	<b>0.1730</b>	<b>0.0000</b>	<b>539.1183</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 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	5.2200e-003	0.1928	0.0410	7.1000e-004	0.0189	1.7300e-003	0.0207	5.2100e-003	1.6500e-003	6.8600e-003	0.0000	70.2064	70.2064	2.3100e-003	0.0111	73.5780
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	6.8700e-003	4.9500e-003	0.0598	1.7000e-004	0.0198	1.1000e-004	0.0199	5.2600e-003	1.0000e-004	5.3500e-003	0.0000	15.8879	15.8879	4.9000e-004	4.6000e-004	16.0368
<b>Total</b>	<b>0.0121</b>	<b>0.1978</b>	<b>0.1008</b>	<b>8.8000e-004</b>	<b>0.0387</b>	<b>1.8400e-003</b>	<b>0.0405</b>	<b>0.0105</b>	<b>1.7500e-003</b>	<b>0.0122</b>	<b>0.0000</b>	<b>86.0943</b>	<b>86.0943</b>	<b>2.8000e-003</b>	<b>0.0116</b>	<b>89.6147</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					0.1091	0.0000	0.1091	0.0165	0.0000	0.0165	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1272	1.0330	2.4044	6.0900e-003		0.0330	0.0330		0.0308	0.0308	0.0000	534.7936	534.7936	0.1730	0.0000	539.1177
<b>Total</b>	<b>0.1272</b>	<b>1.0330</b>	<b>2.4044</b>	<b>6.0900e-003</b>	<b>0.1091</b>	<b>0.0330</b>	<b>0.1421</b>	<b>0.0165</b>	<b>0.0308</b>	<b>0.0473</b>	<b>0.0000</b>	<b>534.7936</b>	<b>534.7936</b>	<b>0.1730</b>	<b>0.0000</b>	<b>539.1177</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 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	5.2200e-003	0.1928	0.0410	7.1000e-004	0.0189	1.7300e-003	0.0207	5.2100e-003	1.6500e-003	6.8600e-003	0.0000	70.2064	70.2064	2.3100e-003	0.0111	73.5780
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	6.8700e-003	4.9500e-003	0.0598	1.7000e-004	0.0198	1.1000e-004	0.0199	5.2600e-003	1.0000e-004	5.3500e-003	0.0000	15.8879	15.8879	4.9000e-004	4.6000e-004	16.0368
<b>Total</b>	<b>0.0121</b>	<b>0.1978</b>	<b>0.1008</b>	<b>8.8000e-004</b>	<b>0.0387</b>	<b>1.8400e-003</b>	<b>0.0405</b>	<b>0.0105</b>	<b>1.7500e-003</b>	<b>0.0122</b>	<b>0.0000</b>	<b>86.0943</b>	<b>86.0943</b>	<b>2.8000e-003</b>	<b>0.0116</b>	<b>89.6147</b>

**3.4 Structural Upgrades - 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	0.0501	0.5450	0.6806	1.4300e-003		0.0200	0.0200		0.0188	0.0188	0.0000	125.4772	125.4772	0.0343	0.0000	126.3351
<b>Total</b>	<b>0.0501</b>	<b>0.5450</b>	<b>0.6806</b>	<b>1.4300e-003</b>		<b>0.0200</b>	<b>0.0200</b>		<b>0.0188</b>	<b>0.0188</b>	<b>0.0000</b>	<b>125.4772</b>	<b>125.4772</b>	<b>0.0343</b>	<b>0.0000</b>	<b>126.3351</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 Structural Upgrades - 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	0.0126	0.4648	0.0989	1.7100e-003	0.0457	4.1700e-003	0.0498	0.0126	3.9900e-003	0.0166	0.0000	169.2476	169.2476	5.5800e-003	0.0268	177.3755
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	7.4200e-003	5.3400e-003	0.0646	1.9000e-004	0.0213	1.2000e-004	0.0215	5.6800e-003	1.1000e-004	5.7800e-003	0.0000	17.1589	17.1589	5.3000e-004	5.0000e-004	17.3197
<b>Total</b>	<b>0.0200</b>	<b>0.4702</b>	<b>0.1634</b>	<b>1.9000e-003</b>	<b>0.0670</b>	<b>4.2900e-003</b>	<b>0.0713</b>	<b>0.0182</b>	<b>4.1000e-003</b>	<b>0.0223</b>	<b>0.0000</b>	<b>186.4065</b>	<b>186.4065</b>	<b>6.1100e-003</b>	<b>0.0273</b>	<b>194.6952</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	0.0433	0.4192	0.7050	1.4300e-003		0.0164	0.0164		0.0156	0.0156	0.0000	125.4770	125.4770	0.0343	0.0000	126.3349
<b>Total</b>	<b>0.0433</b>	<b>0.4192</b>	<b>0.7050</b>	<b>1.4300e-003</b>		<b>0.0164</b>	<b>0.0164</b>		<b>0.0156</b>	<b>0.0156</b>	<b>0.0000</b>	<b>125.4770</b>	<b>125.4770</b>	<b>0.0343</b>	<b>0.0000</b>	<b>126.3349</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 Structural Upgrades - 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	0.0126	0.4648	0.0989	1.7100e-003	0.0457	4.1700e-003	0.0498	0.0126	3.9900e-003	0.0166	0.0000	169.2476	169.2476	5.5800e-003	0.0268	177.3755
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	7.4200e-003	5.3400e-003	0.0646	1.9000e-004	0.0213	1.2000e-004	0.0215	5.6800e-003	1.1000e-004	5.7800e-003	0.0000	17.1589	17.1589	5.3000e-004	5.0000e-004	17.3197
<b>Total</b>	<b>0.0200</b>	<b>0.4702</b>	<b>0.1634</b>	<b>1.9000e-003</b>	<b>0.0670</b>	<b>4.2900e-003</b>	<b>0.0713</b>	<b>0.0182</b>	<b>4.1000e-003</b>	<b>0.0223</b>	<b>0.0000</b>	<b>186.4065</b>	<b>186.4065</b>	<b>6.1100e-003</b>	<b>0.0273</b>	<b>194.6952</b>

**3.4 Structural Upgrades - 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	0.0881	0.9332	1.2649	2.7100e-003		0.0329	0.0329		0.0311	0.0311	0.0000	237.1636	237.1636	0.0647	0.0000	238.7815
<b>Total</b>	<b>0.0881</b>	<b>0.9332</b>	<b>1.2649</b>	<b>2.7100e-003</b>		<b>0.0329</b>	<b>0.0329</b>		<b>0.0311</b>	<b>0.0311</b>	<b>0.0000</b>	<b>237.1636</b>	<b>237.1636</b>	<b>0.0647</b>	<b>0.0000</b>	<b>238.7815</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 Structural Upgrades - 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	0.0106	0.6916	0.1627	3.0800e-003	0.0863	5.5900e-003	0.0918	0.0237	5.3500e-003	0.0291	0.0000	304.3645	304.3645	0.0100	0.0482	318.9877
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0131	8.9300e-003	0.1131	3.4000e-004	0.0403	2.1000e-004	0.0405	0.0107	1.9000e-004	0.0109	0.0000	31.5843	31.5843	9.1000e-004	8.7000e-004	31.8652
<b>Total</b>	<b>0.0237</b>	<b>0.7005</b>	<b>0.2758</b>	<b>3.4200e-003</b>	<b>0.1266</b>	<b>5.8000e-003</b>	<b>0.1324</b>	<b>0.0344</b>	<b>5.5400e-003</b>	<b>0.0400</b>	<b>0.0000</b>	<b>335.9488</b>	<b>335.9488</b>	<b>0.0109</b>	<b>0.0491</b>	<b>350.8529</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	0.0767	0.7195	1.3204	2.7100e-003		0.0271	0.0271		0.0258	0.0258	0.0000	237.1633	237.1633	0.0647	0.0000	238.7812
<b>Total</b>	<b>0.0767</b>	<b>0.7195</b>	<b>1.3204</b>	<b>2.7100e-003</b>		<b>0.0271</b>	<b>0.0271</b>		<b>0.0258</b>	<b>0.0258</b>	<b>0.0000</b>	<b>237.1633</b>	<b>237.1633</b>	<b>0.0647</b>	<b>0.0000</b>	<b>238.7812</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 Structural Upgrades - 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	0.0106	0.6916	0.1627	3.0800e-003	0.0863	5.5900e-003	0.0918	0.0237	5.3500e-003	0.0291	0.0000	304.3645	304.3645	0.0100	0.0482	318.9877
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0131	8.9300e-003	0.1131	3.4000e-004	0.0403	2.1000e-004	0.0405	0.0107	1.9000e-004	0.0109	0.0000	31.5843	31.5843	9.1000e-004	8.7000e-004	31.8652
<b>Total</b>	<b>0.0237</b>	<b>0.7005</b>	<b>0.2758</b>	<b>3.4200e-003</b>	<b>0.1266</b>	<b>5.8000e-003</b>	<b>0.1324</b>	<b>0.0344</b>	<b>5.5400e-003</b>	<b>0.0400</b>	<b>0.0000</b>	<b>335.9488</b>	<b>335.9488</b>	<b>0.0109</b>	<b>0.0491</b>	<b>350.8529</b>



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**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**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 Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928

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

**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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



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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 Heavy Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	3.0626	7.0000e-005	7.2000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0140	0.0140	4.0000e-005	0.0000	0.0149
Unmitigated	3.0626	7.0000e-005	7.2000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0140	0.0140	4.0000e-005	0.0000	0.0149

**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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.0619					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.7000e-004	7.0000e-005	7.2000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0140	0.0140	4.0000e-005	0.0000	0.0149
<b>Total</b>	<b>3.0626</b>	<b>7.0000e-005</b>	<b>7.2000e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0140</b>	<b>0.0140</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0149</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.0619					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.7000e-004	7.0000e-005	7.2000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0140	0.0140	4.0000e-005	0.0000	0.0149
<b>Total</b>	<b>3.0626</b>	<b>7.0000e-005</b>	<b>7.2000e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0140</b>	<b>0.0140</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0149</b>

**7.0 Water Detail**

**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	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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 Heavy Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000



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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**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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