

Slover-Alder Avenue Industrial - San Bernardino-South Coast County, Annual

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

Slover-Alder Avenue Industrial
San Bernardino-South Coast County, Annual

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	259.48	1000sqft	7.94	259,481.00	0
Parking Lot	5.29	Acre	5.29	230,432.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Project Site = 13.23 acres

Construction Phase - Construction schedule provided by applicant

Off-road Equipment - Grading - 2 Excavators, 1 Grader, 1 Rubber Tired Dozer, 2 Scrapers, 2 Crawler Tractors

Off-road Equipment - Site Preparation - 3 Rubber Tired Dozers and 4 Crawler Tractors

Trips and VMT - 6 vendor trucks added to Demolition, Site Prep, and Grading Phases to account for water truck emissions

Demolition - 16,800 sq ft of building space = 773 tons + 117,000 sq ft of pavement = 2,828 tons

Grading -

Architectural Coating -

Vehicle Trips - Truck Trips analyzed under Parking Lot Land use and the Auto Trips analyzed under the Unrefrigerated Warehouse Land Use

Water And Wastewater -

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Solid Waste -

Construction Off-road Equipment Mitigation - Water Exposed Area 3x per day selected to account for SCAQMD Rule 403 minimum requirements

Mobile Land Use Mitigation - Improve Pedestrian Network on Project Site and Connecting Offsite and 0.06 mile to nearest Transit Station

Energy Mitigation -

Water Mitigation - Install Low-Flow fixtures and use water-efficient Irrigation Systems selected to account for Title 24 Part 11 requirements

Waste Mitigation - 50% reduction in solid waste selected to account for AB 341

Operational Off-Road Equipment - 4 Forklifts 7 hours per day. Per PDF 1, analyzed as CNG fuel

Fleet Mix - Vehicle Mix set to match Trip Generation Memo

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	129741	129688
tblAreaCoating	Area_Nonresidential_Interior	389222	389064
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	130.00
tblConstructionPhase	NumDays	20.00	130.00
tblFleetMix	HHD	0.02	0.60
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDA	0.54	0.58
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.1960e-003	0.22
tblFleetMix	LHD2	7.1960e-003	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MCY	0.03	0.03

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tblFleetMix	MDV	0.14	0.00
tblFleetMix	MDV	0.14	0.15
tblFleetMix	MH	5.0710e-003	0.00
tblFleetMix	MH	5.0710e-003	0.00
tblFleetMix	MHD	0.01	0.18
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	5.5900e-004	0.00
tblFleetMix	OBUS	5.5900e-004	0.00
tblFleetMix	SBUS	9.5400e-004	0.00
tblFleetMix	SBUS	9.5400e-004	0.00
tblFleetMix	UBUS	2.5400e-004	0.00
tblFleetMix	UBUS	2.5400e-004	0.00
tblLandUse	LandUseSquareFeet	259,480.00	259,481.00
tblLandUse	LotAcreage	5.96	7.94
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	7.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	21.36
tblVehicleTrips	ST_TR	1.74	0.97
tblVehicleTrips	SU_TR	0.00	21.36
tblVehicleTrips	SU_TR	1.74	0.97
tblVehicleTrips	WD_TR	0.00	21.36
tblVehicleTrips	WD_TR	1.74	0.97

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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3242	2.8403	2.7583	6.8300e-003	0.5312	0.1208	0.6520	0.1760	0.1128	0.2888	0.0000	615.3898	615.3898	0.1001	0.0235	624.8971
2023	1.5018	2.0166	2.8861	6.2600e-003	0.2347	0.0896	0.3243	0.0632	0.0839	0.1470	0.0000	564.0292	564.0292	0.0886	0.0188	571.8309
Maximum	1.5018	2.8403	2.8861	6.8300e-003	0.5312	0.1208	0.6520	0.1760	0.1128	0.2888	0.0000	615.3898	615.3898	0.1001	0.0235	624.8971

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	0.1454	1.7659	3.1387	6.8300e-003	0.3473	0.0142	0.3616	0.1065	0.0140	0.1205	0.0000	615.3894	615.3894	0.1001	0.0235	624.8967
2023	1.3742	1.7461	3.1787	6.2600e-003	0.2347	0.0111	0.2459	0.0632	0.0110	0.0742	0.0000	564.0288	564.0288	0.0886	0.0188	571.8305
Maximum	1.3742	1.7659	3.1787	6.8300e-003	0.3473	0.0142	0.3616	0.1065	0.0140	0.1205	0.0000	615.3894	615.3894	0.1001	0.0235	624.8967

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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
Percent Reduction	16.78	27.69	-11.92	0.00	24.00	87.95	37.78	29.07	87.29	55.34	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	3-1-2022	5-31-2022	1.4370	0.6342
2	6-1-2022	8-31-2022	0.7357	0.5426
3	9-1-2022	11-30-2022	0.7312	0.5402
4	12-1-2022	2-28-2023	1.1714	0.9924
5	3-1-2023	5-31-2023	1.7207	1.5320
6	6-1-2023	8-31-2023	0.8783	0.7819
		Highest	1.7207	1.5320

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0763	3.0000e-005	3.3800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.5700e-003	6.5700e-003	2.0000e-005	0.0000	7.0000e-003
Energy	2.8100e-003	0.0256	0.0215	1.5000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	148.8967	148.8967	0.0108	1.7500e-003	149.6867
Mobile	0.2295	3.6667	2.6689	0.0224	1.1243	0.0383	1.1626	0.3105	0.0366	0.3471	0.0000	2,166.8777	2,166.8777	0.0781	0.2807	2,252.4884
Offroad	6.6200e-003	0.3228	4.2173	7.0000e-004		5.2100e-003	5.2100e-003		5.2100e-003	5.2100e-003	0.0000	79.8153	79.8153	0.0258	0.0000	80.4607
Waste						0.0000	0.0000		0.0000	0.0000	49.5115	0.0000	49.5115	2.9261	0.0000	122.6627
Water						0.0000	0.0000		0.0000	0.0000	19.0367	138.5640	157.6007	1.9670	0.0476	220.9549
Total	1.3152	4.0150	6.9110	0.0232	1.1243	0.0455	1.1698	0.3105	0.0437	0.3543	68.5483	2,534.1603	2,602.7086	5.0077	0.3301	2,826.2604

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0763	3.0000e-005	3.3800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.5700e-003	6.5700e-003	2.0000e-005	0.0000	7.0000e-003
Energy	2.8100e-003	0.0256	0.0215	1.5000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	148.8967	148.8967	0.0108	1.7500e-003	149.6867
Mobile	0.1960	2.8546	2.1485	0.0171	0.8531	0.0291	0.8822	0.2356	0.0278	0.2634	0.0000	1,654.1030	1,654.1030	0.0609	0.2150	1,719.6996
Offroad	6.6200e-003	0.3228	4.2173	7.0000e-004		5.2100e-003	5.2100e-003		5.2100e-003	5.2100e-003	0.0000	79.8153	79.8153	0.0258	0.0000	80.4607
Waste						0.0000	0.0000		0.0000	0.0000	24.7558	0.0000	24.7558	1.4630	0.0000	61.3314
Water						0.0000	0.0000		0.0000	0.0000	16.0670	116.9480	133.0150	1.6601	0.0402	186.4860
Total	1.2817	3.2029	6.3906	0.0179	0.8531	0.0363	0.8894	0.2356	0.0350	0.2706	40.8228	1,999.7696	2,040.5924	3.2206	0.2569	2,197.6712

	ROG	NOx	CO	SO2	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	2.54	20.23	7.53	22.80	24.13	20.17	23.97	24.13	20.03	23.62	40.45	21.09	21.60	35.69	22.16	22.24

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	3/1/2022	3/28/2022	5	20	
2	Site Preparation	Site Preparation	3/29/2022	4/11/2022	5	10	

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3	Grading	Grading	4/12/2022	5/23/2022	5	30
4	Building Construction	Building Construction	5/24/2022	7/17/2023	5	300
5	Paving	Paving	1/17/2023	7/17/2023	5	130
6	Architectural Coating	Architectural Coating	1/17/2023	7/17/2023	5	130

Acres of Grading (Site Preparation Phase): 35**Acres of Grading (Grading Phase): 120****Acres of Paving: 5.29****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 389,222; Non-Residential Outdoor: 129,741; Striped Parking Area: 13,826 (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	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
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

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Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	6.00	356.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	206.00	80.00	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	41.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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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					
Fugitive Dust					0.0385	0.0000	0.0385	5.8300e-003	0.0000	5.8300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Total	0.0264	0.2572	0.2059	3.9000e-004	0.0385	0.0124	0.0510	5.8300e-003	0.0116	0.0174	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

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	6.6000e-004	0.0256	6.3900e-003	1.0000e-004	3.0700e-003	2.5000e-004	3.3200e-003	8.4000e-004	2.4000e-004	1.0900e-003	0.0000	10.3454	10.3454	4.4000e-004	1.6400e-003	10.8450
Vendor	1.0000e-004	2.7600e-003	9.8000e-004	1.0000e-005	3.8000e-004	3.0000e-005	4.1000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.0895	1.0895	3.0000e-005	1.6000e-004	1.1383
Worker	5.7000e-004	4.4000e-004	5.3200e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.3193	1.3193	4.0000e-005	4.0000e-005	1.3315
Total	1.3300e-003	0.0288	0.0127	1.2000e-004	5.0900e-003	2.9000e-004	5.3800e-003	1.3900e-003	2.8000e-004	1.6700e-003	0.0000	12.7542	12.7542	5.1000e-004	1.8400e-003	13.3149

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3.2 Demolition - 2022

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					0.0150	0.0000	0.0150	2.2700e-003	0.0000	2.2700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8400e-003	0.1356	0.2467	3.9000e-004		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	5.8400e-003	0.1356	0.2467	3.9000e-004	0.0150	6.2000e-004	0.0156	2.2700e-003	6.2000e-004	2.8900e-003	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

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	6.6000e-004	0.0256	6.3900e-003	1.0000e-004	3.0700e-003	2.5000e-004	3.3200e-003	8.4000e-004	2.4000e-004	1.0900e-003	0.0000	10.3454	10.3454	4.4000e-004	1.6400e-003	10.8450
Vendor	1.0000e-004	2.7600e-003	9.8000e-004	1.0000e-005	3.8000e-004	3.0000e-005	4.1000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.0895	1.0895	3.0000e-005	1.6000e-004	1.1383
Worker	5.7000e-004	4.4000e-004	5.3200e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.3193	1.3193	4.0000e-005	4.0000e-005	1.3315
Total	1.3300e-003	0.0288	0.0127	1.2000e-004	5.0900e-003	2.9000e-004	5.3800e-003	1.3900e-003	2.8000e-004	1.6700e-003	0.0000	12.7542	12.7542	5.1000e-004	1.8400e-003	13.3149

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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 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					0.1089	0.0000	0.1089	0.0517	0.0000	0.0517	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0224	0.2521	0.1000	2.8000e-004		0.0108	0.0108		9.9300e-003	9.9300e-003	0.0000	25.0258	25.0258	8.0900e-003	0.0000	25.2281
Total	0.0224	0.2521	0.1000	2.8000e-004	0.1089	0.0108	0.1197	0.0517	9.9300e-003	0.0616	0.0000	25.0258	25.0258	8.0900e-003	0.0000	25.2281

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.3800e-003	4.9000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.5448	0.5448	1.0000e-005	8.0000e-005	0.5692
Worker	3.4000e-004	2.7000e-004	3.1900e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7916	0.7916	2.0000e-005	2.0000e-005	0.7989
Total	3.9000e-004	1.6500e-003	3.6800e-003	2.0000e-005	1.1800e-003	3.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.4000e-004	0.0000	1.3363	1.3363	3.0000e-005	1.0000e-004	1.3681

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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 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					0.0425	0.0000	0.0425	0.0202	0.0000	0.0202	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6600e-003	0.0752	0.1516	2.8000e-004		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	25.0257	25.0257	8.0900e-003	0.0000	25.2281
Total	4.6600e-003	0.0752	0.1516	2.8000e-004	0.0425	4.7000e-004	0.0429	0.0202	4.7000e-004	0.0206	0.0000	25.0257	25.0257	8.0900e-003	0.0000	25.2281

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.3800e-003	4.9000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.5448	0.5448	1.0000e-005	8.0000e-005	0.5692
Worker	3.4000e-004	2.7000e-004	3.1900e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7916	0.7916	2.0000e-005	2.0000e-005	0.7989
Total	3.9000e-004	1.6500e-003	3.6800e-003	2.0000e-005	1.1800e-003	3.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.4000e-004	0.0000	1.3363	1.3363	3.0000e-005	1.0000e-004	1.3681

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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 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					0.1540	0.0000	0.1540	0.0565	0.0000	0.0565	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0642	0.7126	0.4379	1.0700e-003		0.0286	0.0286		0.0263	0.0263	0.0000	94.2610	94.2610	0.0305	0.0000	95.0231
Total	0.0642	0.7126	0.4379	1.0700e-003	0.1540	0.0286	0.1826	0.0565	0.0263	0.0829	0.0000	94.2610	94.2610	0.0305	0.0000	95.0231

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5000e-004	4.1500e-003	1.4700e-003	2.0000e-005	5.7000e-004	5.0000e-005	6.1000e-004	1.6000e-004	4.0000e-005	2.1000e-004	0.0000	1.6343	1.6343	4.0000e-005	2.4000e-004	1.7075
Worker	1.1300e-003	8.9000e-004	0.0107	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6386	2.6386	8.0000e-005	8.0000e-005	2.6631
Total	1.2800e-003	5.0400e-003	0.0121	5.0000e-005	3.8600e-003	7.0000e-005	3.9200e-003	1.0300e-003	6.0000e-005	1.1000e-003	0.0000	4.2728	4.2728	1.2000e-004	3.2000e-004	4.3705

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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 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					0.0600	0.0000	0.0600	0.0220	0.0000	0.0220	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.3106	0.6060	1.0700e-003		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	94.2609	94.2609	0.0305	0.0000	95.0230
Total	0.0169	0.3106	0.6060	1.0700e-003	0.0600	1.7600e-003	0.0618	0.0220	1.7600e-003	0.0238	0.0000	94.2609	94.2609	0.0305	0.0000	95.0230

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5000e-004	4.1500e-003	1.4700e-003	2.0000e-005	5.7000e-004	5.0000e-005	6.1000e-004	1.6000e-004	4.0000e-005	2.1000e-004	0.0000	1.6343	1.6343	4.0000e-005	2.4000e-004	1.7075
Worker	1.1300e-003	8.9000e-004	0.0107	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6386	2.6386	8.0000e-005	8.0000e-005	2.6631
Total	1.2800e-003	5.0400e-003	0.0121	5.0000e-005	3.8600e-003	7.0000e-005	3.9200e-003	1.0300e-003	6.0000e-005	1.1000e-003	0.0000	4.2728	4.2728	1.2000e-004	3.2000e-004	4.3705

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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 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	0.1357	1.2414	1.3009	2.1400e-003		0.0643	0.0643		0.0605	0.0605	0.0000	184.2216	184.2216	0.0441	0.0000	185.3249
Total	0.1357	1.2414	1.3009	2.1400e-003		0.0643	0.0643		0.0605	0.0605	0.0000	184.2216	184.2216	0.0441	0.0000	185.3249

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	0.0108	0.2930	0.1039	1.1900e-003	0.0401	3.3200e-003	0.0434	0.0116	3.1700e-003	0.0148	0.0000	115.4873	115.4873	3.1100e-003	0.0171	120.6619
Worker	0.0617	0.0485	0.5811	1.5600e-003	0.1796	9.6000e-004	0.1805	0.0477	8.8000e-004	0.0486	0.0000	144.0405	144.0405	4.1000e-003	4.1400e-003	145.3766
Total	0.0726	0.3414	0.6850	2.7500e-003	0.2197	4.2800e-003	0.2240	0.0593	4.0500e-003	0.0633	0.0000	259.5279	259.5279	7.2100e-003	0.0212	266.0385

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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 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	0.0424	0.8675	1.4210	2.1400e-003		6.7300e-003	6.7300e-003		6.7300e-003	6.7300e-003	0.0000	184.2214	184.2214	0.0441	0.0000	185.3247
Total	0.0424	0.8675	1.4210	2.1400e-003		6.7300e-003	6.7300e-003		6.7300e-003	6.7300e-003	0.0000	184.2214	184.2214	0.0441	0.0000	185.3247

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	0.0108	0.2930	0.1039	1.1900e-003	0.0401	3.3200e-003	0.0434	0.0116	3.1700e-003	0.0148	0.0000	115.4873	115.4873	3.1100e-003	0.0171	120.6619
Worker	0.0617	0.0485	0.5811	1.5600e-003	0.1796	9.6000e-004	0.1805	0.0477	8.8000e-004	0.0486	0.0000	144.0405	144.0405	4.1000e-003	4.1400e-003	145.3766
Total	0.0726	0.3414	0.6850	2.7500e-003	0.2197	4.2800e-003	0.2240	0.0593	4.0500e-003	0.0633	0.0000	259.5279	259.5279	7.2100e-003	0.0212	266.0385

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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 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	0.1109	1.0141	1.1452	1.9000e-003		0.0493	0.0493		0.0464	0.0464	0.0000	163.4224	163.4224	0.0389	0.0000	164.3942
Total	0.1109	1.0141	1.1452	1.9000e-003		0.0493	0.0493		0.0464	0.0464	0.0000	163.4224	163.4224	0.0389	0.0000	164.3942

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	6.3600e-003	0.2081	0.0842	1.0100e-003	0.0356	1.4900e-003	0.0371	0.0103	1.4200e-003	0.0117	0.0000	98.2956	98.2956	2.5600e-003	0.0145	102.6884
Worker	0.0506	0.0378	0.4726	1.3400e-003	0.1592	8.0000e-004	0.1600	0.0423	7.4000e-004	0.0430	0.0000	124.3690	124.3690	3.2600e-003	3.3700e-003	125.4562
Total	0.0570	0.2459	0.5568	2.3500e-003	0.1948	2.2900e-003	0.1971	0.0526	2.1600e-003	0.0547	0.0000	222.6646	222.6646	5.8200e-003	0.0179	228.1446

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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 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	0.0376	0.7693	1.2601	1.9000e-003		5.9600e-003	5.9600e-003		5.9600e-003	5.9600e-003	0.0000	163.4222	163.4222	0.0389	0.0000	164.3940
Total	0.0376	0.7693	1.2601	1.9000e-003		5.9600e-003	5.9600e-003		5.9600e-003	5.9600e-003	0.0000	163.4222	163.4222	0.0389	0.0000	164.3940

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	6.3600e-003	0.2081	0.0842	1.0100e-003	0.0356	1.4900e-003	0.0371	0.0103	1.4200e-003	0.0117	0.0000	98.2956	98.2956	2.5600e-003	0.0145	102.6884
Worker	0.0506	0.0378	0.4726	1.3400e-003	0.1592	8.0000e-004	0.1600	0.0423	7.4000e-004	0.0430	0.0000	124.3690	124.3690	3.2600e-003	3.3700e-003	125.4562
Total	0.0570	0.2459	0.5568	2.3500e-003	0.1948	2.2900e-003	0.1971	0.0526	2.1600e-003	0.0547	0.0000	222.6646	222.6646	5.8200e-003	0.0179	228.1446

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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 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	0.0671	0.6625	0.9480	1.4800e-003		0.0332	0.0332		0.0305	0.0305	0.0000	130.1746	130.1746	0.0421	0.0000	131.2272
Paving	6.9300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0741	0.6625	0.9480	1.4800e-003		0.0332	0.0332		0.0305	0.0305	0.0000	130.1746	130.1746	0.0421	0.0000	131.2272

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	3.4000e-003	2.5400e-003	0.0317	9.0000e-005	0.0107	5.0000e-005	0.0107	2.8400e-003	5.0000e-005	2.8900e-003	0.0000	8.3495	8.3495	2.2000e-004	2.3000e-004	8.4225
Total	3.4000e-003	2.5400e-003	0.0317	9.0000e-005	0.0107	5.0000e-005	0.0107	2.8400e-003	5.0000e-005	2.8900e-003	0.0000	8.3495	8.3495	2.2000e-004	2.3000e-004	8.4225

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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 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	0.0217	0.6526	1.1242	1.4800e-003		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003	0.0000	130.1745	130.1745	0.0421	0.0000	131.2270
Paving	6.9300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0287	0.6526	1.1242	1.4800e-003		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003	0.0000	130.1745	130.1745	0.0421	0.0000	131.2270

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	3.4000e-003	2.5400e-003	0.0317	9.0000e-005	0.0107	5.0000e-005	0.0107	2.8400e-003	5.0000e-005	2.8900e-003	0.0000	8.3495	8.3495	2.2000e-004	2.3000e-004	8.4225
Total	3.4000e-003	2.5400e-003	0.0317	9.0000e-005	0.0107	5.0000e-005	0.0107	2.8400e-003	5.0000e-005	2.8900e-003	0.0000	8.3495	8.3495	2.2000e-004	2.3000e-004	8.4225

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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	1.2347					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0125	0.0847	0.1177	1.9000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003	0.0000	16.5962	16.5962	9.9000e-004	0.0000	16.6210
Total	1.2472	0.0847	0.1177	1.9000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003	0.0000	16.5962	16.5962	9.9000e-004	0.0000	16.6210

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	9.2900e-003	6.9300e-003	0.0867	2.5000e-004	0.0292	1.5000e-004	0.0294	7.7600e-003	1.4000e-004	7.9000e-003	0.0000	22.8220	22.8220	6.0000e-004	6.2000e-004	23.0215
Total	9.2900e-003	6.9300e-003	0.0867	2.5000e-004	0.0292	1.5000e-004	0.0294	7.7600e-003	1.4000e-004	7.9000e-003	0.0000	22.8220	22.8220	6.0000e-004	6.2000e-004	23.0215

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3.7 Architectural Coating - 2023

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	1.2347					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5400e-003	0.0689	0.1191	1.9000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	16.5961	16.5961	9.9000e-004	0.0000	16.6210
Total	1.2383	0.0689	0.1191	1.9000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	16.5961	16.5961	9.9000e-004	0.0000	16.6210

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	9.2900e-003	6.9300e-003	0.0867	2.5000e-004	0.0292	1.5000e-004	0.0294	7.7600e-003	1.4000e-004	7.9000e-003	0.0000	22.8220	22.8220	6.0000e-004	6.2000e-004	23.0215
Total	9.2900e-003	6.9300e-003	0.0867	2.5000e-004	0.0292	1.5000e-004	0.0294	7.7600e-003	1.4000e-004	7.9000e-003	0.0000	22.8220	22.8220	6.0000e-004	6.2000e-004	23.0215

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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	0.1960	2.8546	2.1485	0.0171	0.8531	0.0291	0.8822	0.2356	0.0278	0.2634	0.0000	1,654.1030	1,654.1030	0.0609	0.2150	1,719.6996
Unmitigated	0.2295	3.6667	2.6689	0.0224	1.1243	0.0383	1.1626	0.3105	0.0366	0.3471	0.0000	2,166.8777	2,166.8777	0.0781	0.2807	2,252.4884

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	112.99	112.99	112.99	1,645,198	1,248,255
Unrefrigerated Warehouse-No Rail	251.70	251.70	251.70	1,078,696	818,435
Total	364.69	364.69	364.69	2,723,895	2,066,689

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	40.00	6.90	0.00	100.00	0.00	100	0	0
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.000000	0.000000	0.000000	0.000000	0.000000	0.221000	0.177000	0.602000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.579000	0.059000	0.185000	0.150000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.027000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	121.0645	121.0645	0.0102	1.2400e-003	121.6890
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	121.0645	121.0645	0.0102	1.2400e-003	121.6890
NaturalGas Mitigated	2.8100e-003	0.0256	0.0215	1.5000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	27.8323	27.8323	5.3000e-004	5.1000e-004	27.9977
NaturalGas Unmitigated	2.8100e-003	0.0256	0.0215	1.5000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	27.8323	27.8323	5.3000e-004	5.1000e-004	27.9977

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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	521557	2.8100e-003	0.0256	0.0215	1.5000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	27.8323	27.8323	5.3000e-004	5.1000e-004	27.9977
Total		2.8100e-003	0.0256	0.0215	1.5000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	27.8323	27.8323	5.3000e-004	5.1000e-004	27.9977

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					
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	521557	2.8100e-003	0.0256	0.0215	1.5000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	27.8323	27.8323	5.3000e-004	5.1000e-004	27.9977
Total		2.8100e-003	0.0256	0.0215	1.5000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	27.8323	27.8323	5.3000e-004	5.1000e-004	27.9977

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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			
Parking Lot	80651.3	14.3032	1.2100e-003	1.5000e-004	14.3769
Unrefrigerated Warehouse-No Rail	601996	106.7613	9.0100e-003	1.0900e-003	107.3121
Total		121.0645	0.0102	1.2400e-003	121.6890

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	80651.3	14.3032	1.2100e-003	1.5000e-004	14.3769
Unrefrigerated Warehouse-No Rail	601996	106.7613	9.0100e-003	1.0900e-003	107.3121
Total		121.0645	0.0102	1.2400e-003	121.6890

6.0 Area Detail

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0763	3.0000e-005	3.3800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.5700e-003	6.5700e-003	2.0000e-005	0.0000	7.0000e-003
Unmitigated	1.0763	3.0000e-005	3.3800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.5700e-003	6.5700e-003	2.0000e-005	0.0000	7.0000e-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	0.1234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9525					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1000e-004	3.0000e-005	3.3800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.5700e-003	6.5700e-003	2.0000e-005	0.0000	7.0000e-003
Total	1.0763	3.0000e-005	3.3800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.5700e-003	6.5700e-003	2.0000e-005	0.0000	7.0000e-003

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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	0.1234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9525					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1000e-004	3.0000e-005	3.3800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.5700e-003	6.5700e-003	2.0000e-005	0.0000	7.0000e-003
Total	1.0763	3.0000e-005	3.3800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.5700e-003	6.5700e-003	2.0000e-005	0.0000	7.0000e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Use Water Efficient Irrigation System

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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	133.0150	1.6601	0.0402	186.4860
Unmitigated	157.6007	1.9670	0.0476	220.9549

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	60.0048 / 0	157.6007	1.9670	0.0476	220.9549
Total		157.6007	1.9670	0.0476	220.9549

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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			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	50.644 / 0	133.0150	1.6601	0.0402	186.4860
Total		133.0150	1.6601	0.0402	186.4860

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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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	24.7558	1.4630	0.0000	61.3314
Unmitigated	49.5115	2.9261	0.0000	122.6627

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	243.91	49.5115	2.9261	0.0000	122.6627
Total		49.5115	2.9261	0.0000	122.6627

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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			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	121.955	24.7558	1.4630	0.0000	61.3314
Total		24.7558	1.4630	0.0000	61.3314

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	4	7.00	260	89	0.20	CNG

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	6.6200e-003	0.3228	4.2173	7.0000e-004		5.2100e-003	5.2100e-003		5.2100e-003	5.2100e-003	0.0000	79.8153	79.8153	0.0258	0.0000	80.4607
Total	6.6200e-003	0.3228	4.2173	7.0000e-004		5.2100e-003	5.2100e-003		5.2100e-003	5.2100e-003	0.0000	79.8153	79.8153	0.0258	0.0000	80.4607

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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11.0 Vegetation