

Calexico HS Expansion and Modernization Project - Imperial County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Calexico HS Expansion and Modernization Project  
Imperial County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	94.00	1000sqft	4.50	94,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	12
<b>Climate Zone</b>	15			<b>Operational Year</b>	2026
<b>Utility Company</b>					
<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

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

- Project Characteristics -
- Land Use - Based on input from architect 7/26.
- Construction Phase - Extended for remediation effort
- Off-road Equipment -
- Off-road Equipment - Based on input from 7/19
- Off-road Equipment - Based on input provided 7/19
- Off-road Equipment - Based on input from 7/19
- Off-road Equipment - Based on input from 7/19
- Off-road Equipment - Based on input from 7/19
- Trips and VMT - Trips for remediation effort (site preparation) 50; worker carpooling/public transit
- Demolition -
- Grading - Grading acreage provided by architect 7/26; hauling for remediation soils

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Vehicle Trips - No school trips on the weekend; students are relocating from down the street; primarily neighborhood trips

Road Dust - On-site roads will be paved

Construction Off-road Equipment Mitigation - Cleaning of road for control of dust

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	20
tblGrading	AcresOfGrading	2.50	4.50
tblGrading	MaterialExported	0.00	2,600.00
tblLandUse	LotAcreage	2.16	4.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblRoadDust	RoadPercentPave	50	100
tblTripsAndVMT	HaulingTripNumber	182.00	50.00
tblTripsAndVMT	HaulingTripNumber	325.00	215.00
tblTripsAndVMT	WorkerTripNumber	13.00	6.00
tblTripsAndVMT	WorkerTripNumber	39.00	20.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblVehicleTrips	CC_TL	5.00	2.00
tblVehicleTrips	CNW_TL	8.90	4.00
tblVehicleTrips	CW_TL	6.70	3.00
tblVehicleTrips	ST_TR	3.98	0.00
tblVehicleTrips	SU_TR	1.71	0.00
tblVehicleTrips	WD_TR	14.07	6.00

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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					
2023	0.2137	1.9437	2.1401	4.0400e-003	25.3202	0.0905	25.4106	2.5489	0.0850	2.6339	0.0000	352.9149	352.9149	0.0731	6.6000e-003	356.7109
2024	0.6634	0.0839	0.1225	2.0000e-004	1.0471	3.9400e-003	1.0510	0.1046	3.7000e-003	0.1083	0.0000	17.4577	17.4577	4.3000e-003	9.0000e-005	17.5925
<b>Maximum</b>	<b>0.6634</b>	<b>1.9437</b>	<b>2.1401</b>	<b>4.0400e-003</b>	<b>25.3202</b>	<b>0.0905</b>	<b>25.4106</b>	<b>2.5489</b>	<b>0.0850</b>	<b>2.6339</b>	<b>0.0000</b>	<b>352.9149</b>	<b>352.9149</b>	<b>0.0731</b>	<b>6.6000e-003</b>	<b>356.7109</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2137	1.9437	2.1401	4.0400e-003	20.2302	0.0905	20.3206	2.0292	0.0850	2.1143	0.0000	352.9146	352.9146	0.0731	6.6000e-003	356.7105
2024	0.6634	0.0839	0.1225	2.0000e-004	0.8377	3.9400e-003	0.8417	0.0837	3.7000e-003	0.0874	0.0000	17.4577	17.4577	4.3000e-003	9.0000e-005	17.5925
<b>Maximum</b>	<b>0.6634</b>	<b>1.9437</b>	<b>2.1401</b>	<b>4.0400e-003</b>	<b>20.2302</b>	<b>0.0905</b>	<b>20.3206</b>	<b>2.0292</b>	<b>0.0850</b>	<b>2.1143</b>	<b>0.0000</b>	<b>352.9146</b>	<b>352.9146</b>	<b>0.0731</b>	<b>6.6000e-003</b>	<b>356.7105</b>

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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	0.00	0.00	0.00	0.00	20.10	0.00	20.03	20.37	0.00	19.71	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2023	4-1-2023	0.5245	0.5245
2	4-2-2023	7-1-2023	0.5422	0.5422
3	7-2-2023	10-1-2023	0.5482	0.5482
4	10-2-2023	1-1-2024	0.5489	0.5489
5	1-2-2024	4-1-2024	0.7051	0.7051
		Highest	0.7051	0.7051

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4326	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6800e-003	1.6800e-003	0.0000	0.0000	1.7900e-003
Energy	4.4000e-003	0.0400	0.0336	2.4000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	43.5908	43.5908	8.4000e-004	8.0000e-004	43.8498
Mobile	0.1543	0.1149	0.7615	1.2300e-003	0.1285	1.0300e-003	0.1296	0.0343	9.6000e-004	0.0352	0.0000	113.5710	113.5710	9.9800e-003	7.9400e-003	116.1855
Waste						0.0000	0.0000		0.0000	0.0000	24.8055	0.0000	24.8055	1.4660	0.0000	61.4546
Water						0.0000	0.0000		0.0000	0.0000	0.9902	0.0000	0.9902	0.1017	2.4000e-003	4.2485
<b>Total</b>	<b>0.5912</b>	<b>0.1550</b>	<b>0.7960</b>	<b>1.4700e-003</b>	<b>0.1285</b>	<b>4.0700e-003</b>	<b>0.1326</b>	<b>0.0343</b>	<b>4.0000e-003</b>	<b>0.0383</b>	<b>25.7957</b>	<b>157.1634</b>	<b>182.9591</b>	<b>1.5785</b>	<b>0.0111</b>	<b>225.7402</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4326	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6800e-003	1.6800e-003	0.0000	0.0000	1.7900e-003
Energy	4.4000e-003	0.0400	0.0336	2.4000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	43.5908	43.5908	8.4000e-004	8.0000e-004	43.8498
Mobile	0.1543	0.1149	0.7615	1.2300e-003	0.1285	1.0300e-003	0.1296	0.0343	9.6000e-004	0.0352	0.0000	113.5710	113.5710	9.9800e-003	7.9400e-003	116.1855
Waste						0.0000	0.0000		0.0000	0.0000	24.8055	0.0000	24.8055	1.4660	0.0000	61.4546
Water						0.0000	0.0000		0.0000	0.0000	0.9902	0.0000	0.9902	0.1017	2.4000e-003	4.2485
<b>Total</b>	<b>0.5912</b>	<b>0.1550</b>	<b>0.7960</b>	<b>1.4700e-003</b>	<b>0.1285</b>	<b>4.0700e-003</b>	<b>0.1326</b>	<b>0.0343</b>	<b>4.0000e-003</b>	<b>0.0383</b>	<b>25.7957</b>	<b>157.1634</b>	<b>182.9591</b>	<b>1.5785</b>	<b>0.0111</b>	<b>225.7402</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/27/2023	5	20	
2	Site Preparation	Site Preparation	1/28/2023	2/3/2023	5	5	
3	Grading	Grading	2/4/2023	2/15/2023	5	8	

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4	Building Construction	Building Construction	2/16/2023	1/3/2024	5	230
5	Paving	Paving	1/4/2024	1/29/2024	5	18
6	Architectural Coating	Architectural Coating	1/30/2024	2/22/2024	5	18

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 141,000; Non-Residential Outdoor: 47,000; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36

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Paving	Rollers	1	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
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	4	10.00	0.00	50.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	10.00	0.00	215.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	6.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	20.00	15.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	8.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

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**3.2 Demolition - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0205	0.0000	0.0205	3.1000e-003	0.0000	3.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0140	0.1281	0.1328	2.5000e-004		6.0100e-003	6.0100e-003		5.6300e-003	5.6300e-003	0.0000	21.9528	21.9528	5.6300e-003	0.0000	22.0934
<b>Total</b>	<b>0.0140</b>	<b>0.1281</b>	<b>0.1328</b>	<b>2.5000e-004</b>	<b>0.0205</b>	<b>6.0100e-003</b>	<b>0.0265</b>	<b>3.1000e-003</b>	<b>5.6300e-003</b>	<b>8.7300e-003</b>	<b>0.0000</b>	<b>21.9528</b>	<b>21.9528</b>	<b>5.6300e-003</b>	<b>0.0000</b>	<b>22.0934</b>

**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	6.0000e-005	2.5900e-003	7.2000e-004	1.0000e-005	0.3561	3.0000e-005	0.3561	0.0356	3.0000e-005	0.0356	0.0000	1.2992	1.2992	0.0000	2.0000e-004	1.3601
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-004	1.8000e-004	2.1500e-003	0.0000	0.5198	0.0000	0.5198	0.0519	0.0000	0.0519	0.0000	0.4361	0.4361	2.0000e-005	2.0000e-005	0.4413
<b>Total</b>	<b>4.0000e-004</b>	<b>2.7700e-003</b>	<b>2.8700e-003</b>	<b>1.0000e-005</b>	<b>0.8759</b>	<b>3.0000e-005</b>	<b>0.8760</b>	<b>0.0875</b>	<b>3.0000e-005</b>	<b>0.0876</b>	<b>0.0000</b>	<b>1.7353</b>	<b>1.7353</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>1.8014</b>



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**3.2 Demolition - 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					
Fugitive Dust					7.9800e-003	0.0000	7.9800e-003	1.2100e-003	0.0000	1.2100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0140	0.1281	0.1328	2.5000e-004		6.0100e-003	6.0100e-003		5.6300e-003	5.6300e-003	0.0000	21.9527	21.9527	5.6300e-003	0.0000	22.0934
<b>Total</b>	<b>0.0140</b>	<b>0.1281</b>	<b>0.1328</b>	<b>2.5000e-004</b>	<b>7.9800e-003</b>	<b>6.0100e-003</b>	<b>0.0140</b>	<b>1.2100e-003</b>	<b>5.6300e-003</b>	<b>6.8400e-003</b>	<b>0.0000</b>	<b>21.9527</b>	<b>21.9527</b>	<b>5.6300e-003</b>	<b>0.0000</b>	<b>22.0934</b>

**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	6.0000e-005	2.5900e-003	7.2000e-004	1.0000e-005	0.2849	3.0000e-005	0.2849	0.0285	3.0000e-005	0.0285	0.0000	1.2992	1.2992	0.0000	2.0000e-004	1.3601
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-004	1.8000e-004	2.1500e-003	0.0000	0.4159	0.0000	0.4159	0.0416	0.0000	0.0416	0.0000	0.4361	0.4361	2.0000e-005	2.0000e-005	0.4413
<b>Total</b>	<b>4.0000e-004</b>	<b>2.7700e-003</b>	<b>2.8700e-003</b>	<b>1.0000e-005</b>	<b>0.7008</b>	<b>3.0000e-005</b>	<b>0.7008</b>	<b>0.0700</b>	<b>3.0000e-005</b>	<b>0.0701</b>	<b>0.0000</b>	<b>1.7353</b>	<b>1.7353</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>1.8014</b>

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**3.3 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0177	0.0000	0.0177	8.5700e-003	0.0000	8.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0293	0.0245	4.0000e-005		1.3700e-003	1.3700e-003		1.2600e-003	1.2600e-003	0.0000	3.9275	3.9275	1.2700e-003	0.0000	3.9593
<b>Total</b>	<b>2.8500e-003</b>	<b>0.0293</b>	<b>0.0245</b>	<b>4.0000e-005</b>	<b>0.0177</b>	<b>1.3700e-003</b>	<b>0.0191</b>	<b>8.5700e-003</b>	<b>1.2600e-003</b>	<b>9.8300e-003</b>	<b>0.0000</b>	<b>3.9275</b>	<b>3.9275</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>3.9593</b>

**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	2.5000e-004	0.0111	3.1100e-003	6.0000e-005	1.5312	1.3000e-004	1.5313	0.1530	1.3000e-004	0.1532	0.0000	5.5865	5.5865	1.0000e-005	8.8000e-004	5.8486
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	9.0000e-005	5.0000e-005	5.4000e-004	0.0000	0.1300	0.0000	0.1300	0.0130	0.0000	0.0130	0.0000	0.1090	0.1090	0.0000	0.0000	0.1103
<b>Total</b>	<b>3.4000e-004</b>	<b>0.0112</b>	<b>3.6500e-003</b>	<b>6.0000e-005</b>	<b>1.6612</b>	<b>1.3000e-004</b>	<b>1.6613</b>	<b>0.1660</b>	<b>1.3000e-004</b>	<b>0.1661</b>	<b>0.0000</b>	<b>5.6956</b>	<b>5.6956</b>	<b>1.0000e-005</b>	<b>8.8000e-004</b>	<b>5.9589</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 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					
Fugitive Dust					6.9000e-003	0.0000	6.9000e-003	3.3400e-003	0.0000	3.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0293	0.0245	4.0000e-005		1.3700e-003	1.3700e-003		1.2600e-003	1.2600e-003	0.0000	3.9275	3.9275	1.2700e-003	0.0000	3.9593
<b>Total</b>	<b>2.8500e-003</b>	<b>0.0293</b>	<b>0.0245</b>	<b>4.0000e-005</b>	<b>6.9000e-003</b>	<b>1.3700e-003</b>	<b>8.2700e-003</b>	<b>3.3400e-003</b>	<b>1.2600e-003</b>	<b>4.6000e-003</b>	<b>0.0000</b>	<b>3.9275</b>	<b>3.9275</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>3.9593</b>

**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	2.5000e-004	0.0111	3.1100e-003	6.0000e-005	1.2251	1.3000e-004	1.2252	0.1225	1.3000e-004	0.1226	0.0000	5.5865	5.5865	1.0000e-005	8.8000e-004	5.8486
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	9.0000e-005	5.0000e-005	5.4000e-004	0.0000	0.1040	0.0000	0.1040	0.0104	0.0000	0.0104	0.0000	0.1090	0.1090	0.0000	0.0000	0.1103
<b>Total</b>	<b>3.4000e-004</b>	<b>0.0112</b>	<b>3.6500e-003</b>	<b>6.0000e-005</b>	<b>1.3290</b>	<b>1.3000e-004</b>	<b>1.3292</b>	<b>0.1328</b>	<b>1.3000e-004</b>	<b>0.1330</b>	<b>0.0000</b>	<b>5.6956</b>	<b>5.6956</b>	<b>1.0000e-005</b>	<b>8.8000e-004</b>	<b>5.9589</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0283	0.0000	0.0283	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2400e-003	0.0656	0.0501	1.1000e-004		2.8000e-003	2.8000e-003		2.5700e-003	2.5700e-003	0.0000	9.3299	9.3299	3.0200e-003	0.0000	9.4053
<b>Total</b>	<b>6.2400e-003</b>	<b>0.0656</b>	<b>0.0501</b>	<b>1.1000e-004</b>	<b>0.0283</b>	<b>2.8000e-003</b>	<b>0.0311</b>	<b>0.0137</b>	<b>2.5700e-003</b>	<b>0.0163</b>	<b>0.0000</b>	<b>9.3299</b>	<b>9.3299</b>	<b>3.0200e-003</b>	<b>0.0000</b>	<b>9.4053</b>

**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	8.0000e-005	4.0000e-005	5.2000e-004	0.0000	0.1248	0.0000	0.1248	0.0125	0.0000	0.0125	0.0000	0.1047	0.1047	0.0000	0.0000	0.1059
<b>Total</b>	<b>8.0000e-005</b>	<b>4.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>0.1248</b>	<b>0.0000</b>	<b>0.1248</b>	<b>0.0125</b>	<b>0.0000</b>	<b>0.0125</b>	<b>0.0000</b>	<b>0.1047</b>	<b>0.1047</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1059</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 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					
Fugitive Dust					0.0111	0.0000	0.0111	5.3400e-003	0.0000	5.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2400e-003	0.0656	0.0501	1.1000e-004		2.8000e-003	2.8000e-003		2.5700e-003	2.5700e-003	0.0000	9.3299	9.3299	3.0200e-003	0.0000	9.4053
<b>Total</b>	<b>6.2400e-003</b>	<b>0.0656</b>	<b>0.0501</b>	<b>1.1000e-004</b>	<b>0.0111</b>	<b>2.8000e-003</b>	<b>0.0139</b>	<b>5.3400e-003</b>	<b>2.5700e-003</b>	<b>7.9100e-003</b>	<b>0.0000</b>	<b>9.3299</b>	<b>9.3299</b>	<b>3.0200e-003</b>	<b>0.0000</b>	<b>9.4053</b>

**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	8.0000e-005	4.0000e-005	5.2000e-004	0.0000	0.0998	0.0000	0.0998	9.9700e-003	0.0000	9.9700e-003	0.0000	0.1047	0.1047	0.0000	0.0000	0.1059
<b>Total</b>	<b>8.0000e-005</b>	<b>4.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>0.0998</b>	<b>0.0000</b>	<b>0.0998</b>	<b>9.9700e-003</b>	<b>0.0000</b>	<b>9.9700e-003</b>	<b>0.0000</b>	<b>0.1047</b>	<b>0.1047</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1059</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.1785	1.6327	1.8437	3.0600e-003		0.0794	0.0794		0.0747	0.0747	0.0000	263.0984	263.0984	0.0626	0.0000	264.6631
<b>Total</b>	<b>0.1785</b>	<b>1.6327</b>	<b>1.8437</b>	<b>3.0600e-003</b>		<b>0.0794</b>	<b>0.0794</b>		<b>0.0747</b>	<b>0.0747</b>	<b>0.0000</b>	<b>263.0984</b>	<b>263.0984</b>	<b>0.0626</b>	<b>0.0000</b>	<b>264.6631</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5000e-003	0.0698	0.0332	3.9000e-004	10.7921	6.3000e-004	10.7927	1.0788	6.0000e-004	1.0794	0.0000	37.1705	37.1705	1.7000e-004	5.1400e-003	38.7073
Worker	7.8000e-003	4.2000e-003	0.0488	1.1000e-004	11.7998	7.0000e-005	11.7999	1.1788	6.0000e-005	1.1788	0.0000	9.9003	9.9003	4.0000e-004	3.6000e-004	10.0163
<b>Total</b>	<b>0.0113</b>	<b>0.0740</b>	<b>0.0820</b>	<b>5.0000e-004</b>	<b>22.5919</b>	<b>7.0000e-004</b>	<b>22.5926</b>	<b>2.2576</b>	<b>6.6000e-004</b>	<b>2.2582</b>	<b>0.0000</b>	<b>47.0708</b>	<b>47.0708</b>	<b>5.7000e-004</b>	<b>5.5000e-003</b>	<b>48.7236</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.1785	1.6327	1.8437	3.0600e-003		0.0794	0.0794		0.0747	0.0747	0.0000	263.0981	263.0981	0.0626	0.0000	264.6628
<b>Total</b>	<b>0.1785</b>	<b>1.6327</b>	<b>1.8437</b>	<b>3.0600e-003</b>		<b>0.0794</b>	<b>0.0794</b>		<b>0.0747</b>	<b>0.0747</b>	<b>0.0000</b>	<b>263.0981</b>	<b>263.0981</b>	<b>0.0626</b>	<b>0.0000</b>	<b>264.6628</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5000e-003	0.0698	0.0332	3.9000e-004	8.6345	6.3000e-004	8.6351	0.8634	6.0000e-004	0.8640	0.0000	37.1705	37.1705	1.7000e-004	5.1400e-003	38.7073
Worker	7.8000e-003	4.2000e-003	0.0488	1.1000e-004	9.4402	7.0000e-005	9.4402	0.9431	6.0000e-005	0.9432	0.0000	9.9003	9.9003	4.0000e-004	3.6000e-004	10.0163
<b>Total</b>	<b>0.0113</b>	<b>0.0740</b>	<b>0.0820</b>	<b>5.0000e-004</b>	<b>18.0746</b>	<b>7.0000e-004</b>	<b>18.0753</b>	<b>1.8065</b>	<b>6.6000e-004</b>	<b>1.8072</b>	<b>0.0000</b>	<b>47.0708</b>	<b>47.0708</b>	<b>5.7000e-004</b>	<b>5.5000e-003</b>	<b>48.7236</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.2100e-003	0.0202	0.0243	4.0000e-005		9.2000e-004	9.2000e-004		8.7000e-004	8.7000e-004	0.0000	3.4777	3.4777	8.2000e-004	0.0000	3.4983
<b>Total</b>	<b>2.2100e-003</b>	<b>0.0202</b>	<b>0.0243</b>	<b>4.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>8.7000e-004</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>3.4777</b>	<b>3.4777</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>3.4983</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	9.2000e-004	4.2000e-004	1.0000e-005	0.1426	1.0000e-005	0.1426	0.0143	1.0000e-005	0.0143	0.0000	0.4847	0.4847	0.0000	7.0000e-005	0.5046
Worker	1.0000e-004	5.0000e-005	6.0000e-004	0.0000	0.1559	0.0000	0.1560	0.0156	0.0000	0.0156	0.0000	0.1269	0.1269	0.0000	0.0000	0.1283
<b>Total</b>	<b>1.4000e-004</b>	<b>9.7000e-004</b>	<b>1.0200e-003</b>	<b>1.0000e-005</b>	<b>0.2986</b>	<b>1.0000e-005</b>	<b>0.2986</b>	<b>0.0298</b>	<b>1.0000e-005</b>	<b>0.0299</b>	<b>0.0000</b>	<b>0.6116</b>	<b>0.6116</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.6329</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2024**

**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	2.2100e-003	0.0202	0.0243	4.0000e-005		9.2000e-004	9.2000e-004		8.7000e-004	8.7000e-004	0.0000	3.4777	3.4777	8.2000e-004	0.0000	3.4983
<b>Total</b>	<b>2.2100e-003</b>	<b>0.0202</b>	<b>0.0243</b>	<b>4.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>8.7000e-004</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>3.4777</b>	<b>3.4777</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>3.4983</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	9.2000e-004	4.2000e-004	1.0000e-005	0.1141	1.0000e-005	0.1141	0.0114	1.0000e-005	0.0114	0.0000	0.4847	0.4847	0.0000	7.0000e-005	0.5046
Worker	1.0000e-004	5.0000e-005	6.0000e-004	0.0000	0.1248	0.0000	0.1248	0.0125	0.0000	0.0125	0.0000	0.1269	0.1269	0.0000	0.0000	0.1283
<b>Total</b>	<b>1.4000e-004</b>	<b>9.7000e-004</b>	<b>1.0200e-003</b>	<b>1.0000e-005</b>	<b>0.2389</b>	<b>1.0000e-005</b>	<b>0.2389</b>	<b>0.0239</b>	<b>1.0000e-005</b>	<b>0.0239</b>	<b>0.0000</b>	<b>0.6116</b>	<b>0.6116</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.6329</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4400e-003	0.0516	0.0781	1.2000e-004		2.4600e-003	2.4600e-003		2.2700e-003	2.2700e-003	0.0000	10.4612	10.4612	3.3200e-003	0.0000	10.5441
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.4400e-003</b>	<b>0.0516</b>	<b>0.0781</b>	<b>1.2000e-004</b>		<b>2.4600e-003</b>	<b>2.4600e-003</b>		<b>2.2700e-003</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>10.4612</b>	<b>10.4612</b>	<b>3.3200e-003</b>	<b>0.0000</b>	<b>10.5441</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.2000e-004	1.4300e-003	0.0000	0.3743	0.0000	0.3743	0.0374	0.0000	0.0374	0.0000	0.3046	0.3046	1.0000e-005	1.0000e-005	0.3080
<b>Total</b>	<b>2.3000e-004</b>	<b>1.2000e-004</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>0.3743</b>	<b>0.0000</b>	<b>0.3743</b>	<b>0.0374</b>	<b>0.0000</b>	<b>0.0374</b>	<b>0.0000</b>	<b>0.3046</b>	<b>0.3046</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3080</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4400e-003	0.0516	0.0781	1.2000e-004		2.4600e-003	2.4600e-003		2.2700e-003	2.2700e-003	0.0000	10.4612	10.4612	3.3200e-003	0.0000	10.5441
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.4400e-003</b>	<b>0.0516</b>	<b>0.0781</b>	<b>1.2000e-004</b>		<b>2.4600e-003</b>	<b>2.4600e-003</b>		<b>2.2700e-003</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>10.4612</b>	<b>10.4612</b>	<b>3.3200e-003</b>	<b>0.0000</b>	<b>10.5441</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.2000e-004	1.4300e-003	0.0000	0.2994	0.0000	0.2994	0.0299	0.0000	0.0299	0.0000	0.3046	0.3046	1.0000e-005	1.0000e-005	0.3080
<b>Total</b>	<b>2.3000e-004</b>	<b>1.2000e-004</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>0.2994</b>	<b>0.0000</b>	<b>0.2994</b>	<b>0.0299</b>	<b>0.0000</b>	<b>0.0299</b>	<b>0.0000</b>	<b>0.3046</b>	<b>0.3046</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3080</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6535					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
<b>Total</b>	<b>0.6552</b>	<b>0.0110</b>	<b>0.0163</b>	<b>3.0000e-005</b>		<b>5.5000e-004</b>	<b>5.5000e-004</b>		<b>5.5000e-004</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.3012</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.2000e-004	1.4300e-003	0.0000	0.3743	0.0000	0.3743	0.0374	0.0000	0.0374	0.0000	0.3046	0.3046	1.0000e-005	1.0000e-005	0.3080
<b>Total</b>	<b>2.3000e-004</b>	<b>1.2000e-004</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>0.3743</b>	<b>0.0000</b>	<b>0.3743</b>	<b>0.0374</b>	<b>0.0000</b>	<b>0.0374</b>	<b>0.0000</b>	<b>0.3046</b>	<b>0.3046</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3080</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6535					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
<b>Total</b>	<b>0.6552</b>	<b>0.0110</b>	<b>0.0163</b>	<b>3.0000e-005</b>		<b>5.5000e-004</b>	<b>5.5000e-004</b>		<b>5.5000e-004</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.3012</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.2000e-004	1.4300e-003	0.0000	0.2994	0.0000	0.2994	0.0299	0.0000	0.0299	0.0000	0.3046	0.3046	1.0000e-005	1.0000e-005	0.3080
<b>Total</b>	<b>2.3000e-004</b>	<b>1.2000e-004</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>0.2994</b>	<b>0.0000</b>	<b>0.2994</b>	<b>0.0299</b>	<b>0.0000</b>	<b>0.0299</b>	<b>0.0000</b>	<b>0.3046</b>	<b>0.3046</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3080</b>

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.1543	0.1149	0.7615	1.2300e-003	0.1285	1.0300e-003	0.1296	0.0343	9.6000e-004	0.0352	0.0000	113.5710	113.5710	9.9800e-003	7.9400e-003	116.1855
Unmitigated	0.1543	0.1149	0.7615	1.2300e-003	0.1285	1.0300e-003	0.1296	0.0343	9.6000e-004	0.0352	0.0000	113.5710	113.5710	9.9800e-003	7.9400e-003	116.1855

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High School	564.00	0.00	0.00	337,449	337,449
Total	564.00	0.00	0.00	337,449	337,449

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
High School	3.00	2.00	4.00	77.80	17.20	5.00	75	19	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High School	0.534506	0.059297	0.179652	0.141644	0.025634	0.006729	0.008348	0.016161	0.000956	0.000117	0.022945	0.000739	0.003273

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	4.4000e-003	0.0400	0.0336	2.4000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	43.5908	43.5908	8.4000e-004	8.0000e-004	43.8498
NaturalGas Unmitigated	4.4000e-003	0.0400	0.0336	2.4000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	43.5908	43.5908	8.4000e-004	8.0000e-004	43.8498

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
High School	816860	4.4000e-003	0.0400	0.0336	2.4000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	43.5908	43.5908	8.4000e-004	8.0000e-004	43.8498
<b>Total</b>		<b>4.4000e-003</b>	<b>0.0400</b>	<b>0.0336</b>	<b>2.4000e-004</b>		<b>3.0400e-003</b>	<b>3.0400e-003</b>		<b>3.0400e-003</b>	<b>3.0400e-003</b>	<b>0.0000</b>	<b>43.5908</b>	<b>43.5908</b>	<b>8.4000e-004</b>	<b>8.0000e-004</b>	<b>43.8498</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
High School	816860	4.4000e-003	0.0400	0.0336	2.4000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	43.5908	43.5908	8.4000e-004	8.0000e-004	43.8498
<b>Total</b>		<b>4.4000e-003</b>	<b>0.0400</b>	<b>0.0336</b>	<b>2.4000e-004</b>		<b>3.0400e-003</b>	<b>3.0400e-003</b>		<b>3.0400e-003</b>	<b>3.0400e-003</b>	<b>0.0000</b>	<b>43.5908</b>	<b>43.5908</b>	<b>8.4000e-004</b>	<b>8.0000e-004</b>	<b>43.8498</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High School	658940	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			
High School	658940	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 Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4326	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6800e-003	1.6800e-003	0.0000	0.0000	1.7900e-003
Unmitigated	0.4326	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6800e-003	1.6800e-003	0.0000	0.0000	1.7900e-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	0.0654					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3671					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6800e-003	1.6800e-003	0.0000	0.0000	1.7900e-003
<b>Total</b>	<b>0.4326</b>	<b>1.0000e-005</b>	<b>8.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6800e-003</b>	<b>1.6800e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7900e-003</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0654					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3671					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6800e-003	1.6800e-003	0.0000	0.0000	1.7900e-003
<b>Total</b>	<b>0.4326</b>	<b>1.0000e-005</b>	<b>8.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6800e-003</b>	<b>1.6800e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7900e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.9902	0.1017	2.4000e-003	4.2485
Unmitigated	0.9902	0.1017	2.4000e-003	4.2485

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High School	3.12124 / 8.02604	0.9902	0.1017	2.4000e-003	4.2485
<b>Total</b>		<b>0.9902</b>	<b>0.1017</b>	<b>2.4000e-003</b>	<b>4.2485</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High School	3.12124 / 8.02604	0.9902	0.1017	2.4000e-003	4.2485
<b>Total</b>		<b>0.9902</b>	<b>0.1017</b>	<b>2.4000e-003</b>	<b>4.2485</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	24.8055	1.4660	0.0000	61.4546
Unmitigated	24.8055	1.4660	0.0000	61.4546

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High School	122.2	24.8055	1.4660	0.0000	61.4546
<b>Total</b>		<b>24.8055</b>	<b>1.4660</b>	<b>0.0000</b>	<b>61.4546</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High School	122.2	24.8055	1.4660	0.0000	61.4546
<b>Total</b>		<b>24.8055</b>	<b>1.4660</b>	<b>0.0000</b>	<b>61.4546</b>

**9.0 Operational Offroad**

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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 Not 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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