

Blumenfeld Cannabis Complex (Z21-027) - Sacramento County, Annual

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

**Blumenfeld Cannabis Complex (Z21-027)  
Sacramento County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	112.00	1000sqft	2.57	112,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6	<b>Operational Year</b>	2024		
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<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 -

Table Name	Column Name	Default Value	New Value
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**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					
2022	0.1240	1.0119	0.9628	1.9000e-003	0.0470	0.0465	0.0935	0.0169	0.0442	0.0611	0.0000	163.4035	163.4035	0.0288	2.9300e-003	164.9964
2023	0.6390	0.9395	1.0203	2.0300e-003	0.0284	0.0404	0.0687	7.6900e-003	0.0386	0.0463	0.0000	173.6947	173.6947	0.0276	3.4900e-003	175.4239
<b>Maximum</b>	<b>0.6390</b>	<b>1.0119</b>	<b>1.0203</b>	<b>2.0300e-003</b>	<b>0.0470</b>	<b>0.0465</b>	<b>0.0935</b>	<b>0.0169</b>	<b>0.0442</b>	<b>0.0611</b>	<b>0.0000</b>	<b>173.6947</b>	<b>173.6947</b>	<b>0.0288</b>	<b>3.4900e-003</b>	<b>175.4239</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1240	1.0119	0.9628	1.9000e-003	0.0470	0.0465	0.0935	0.0169	0.0442	0.0611	0.0000	163.4033	163.4033	0.0288	2.9300e-003	164.9962
2023	0.6390	0.9394	1.0203	2.0300e-003	0.0284	0.0404	0.0687	7.6900e-003	0.0386	0.0463	0.0000	173.6945	173.6945	0.0276	3.4900e-003	175.4237
<b>Maximum</b>	<b>0.6390</b>	<b>1.0119</b>	<b>1.0203</b>	<b>2.0300e-003</b>	<b>0.0470</b>	<b>0.0465</b>	<b>0.0935</b>	<b>0.0169</b>	<b>0.0442</b>	<b>0.0611</b>	<b>0.0000</b>	<b>173.6945</b>	<b>173.6945</b>	<b>0.0288</b>	<b>3.4900e-003</b>	<b>175.4237</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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-7-2022	10-6-2022	0.5906	0.5906
2	10-7-2022	1-6-2023	0.5823	0.5823
3	1-7-2023	4-6-2023	0.5299	0.5299
4	4-7-2023	7-6-2023	0.5632	0.5632
5	7-7-2023	9-30-2023	0.4516	0.4516
		Highest	0.5906	0.5906

**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	0.4895	1.0000e-005	1.4300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.7800e-003	2.7800e-003	1.0000e-005	0.0000	2.9600e-003
Energy	0.0215	0.1953	0.1640	1.1700e-003		0.0148	0.0148		0.0148	0.0148	0.0000	482.1127	482.1127	0.0289	6.9100e-003	484.8946
Mobile	0.2512	0.3353	2.3611	4.9500e-003	0.5111	3.9400e-003	0.5150	0.1367	3.6800e-003	0.1403	0.0000	465.9186	465.9186	0.0311	0.0228	473.4826
Waste						0.0000	0.0000		0.0000	0.0000	28.1914	0.0000	28.1914	1.6661	0.0000	69.8430
Water						0.0000	0.0000		0.0000	0.0000	9.1635	20.9546	30.1181	0.0335	0.0202	36.9631
<b>Total</b>	<b>0.7621</b>	<b>0.5306</b>	<b>2.5265</b>	<b>6.1200e-003</b>	<b>0.5111</b>	<b>0.0188</b>	<b>0.5299</b>	<b>0.1367</b>	<b>0.0185</b>	<b>0.1552</b>	<b>37.3548</b>	<b>968.9887</b>	<b>1,006.3436</b>	<b>1.7596</b>	<b>0.0498</b>	<b>1,065.1862</b>

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4895	1.0000e-005	1.4300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.7800e-003	2.7800e-003	1.0000e-005	0.0000	2.9600e-003
Energy	0.0215	0.1953	0.1640	1.1700e-003		0.0148	0.0148		0.0148	0.0148	0.0000	482.1127	482.1127	0.0289	6.9100e-003	484.8946
Mobile	0.2512	0.3353	2.3611	4.9500e-003	0.5111	3.9400e-003	0.5150	0.1367	3.6800e-003	0.1403	0.0000	465.9186	465.9186	0.0311	0.0228	473.4826
Waste						0.0000	0.0000		0.0000	0.0000	28.1914	0.0000	28.1914	1.6661	0.0000	69.8430
Water						0.0000	0.0000		0.0000	0.0000	9.1635	20.9546	30.1181	0.0335	0.0202	36.9631
<b>Total</b>	<b>0.7621</b>	<b>0.5306</b>	<b>2.5265</b>	<b>6.1200e-003</b>	<b>0.5111</b>	<b>0.0188</b>	<b>0.5299</b>	<b>0.1367</b>	<b>0.0185</b>	<b>0.1552</b>	<b>37.3548</b>	<b>968.9887</b>	<b>1,006.3436</b>	<b>1.7596</b>	<b>0.0498</b>	<b>1,065.1862</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	7/7/2022	8/3/2022	5	20	
2	Site Preparation	Site Preparation	8/4/2022	8/8/2022	5	3	
3	Grading	Grading	8/9/2022	8/16/2022	5	6	

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4	Building Construction	Building Construction	8/17/2022	6/20/2023	5	220
5	Paving	Paving	6/21/2023	7/4/2023	5	10
6	Architectural Coating	Architectural Coating	7/5/2023	7/18/2023	5	10

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

**Acres of Grading (Grading Phase): 6**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 168,000; Non-Residential Outdoor: 56,000; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74

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Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Welders	3	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	47.00	18.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0169	0.1662	0.1396	2.4000e-004		8.3800e-003	8.3800e-003		7.8300e-003	7.8300e-003	0.0000	21.0777	21.0777	5.3700e-003	0.0000	21.2120
<b>Total</b>	<b>0.0169</b>	<b>0.1662</b>	<b>0.1396</b>	<b>2.4000e-004</b>		<b>8.3800e-003</b>	<b>8.3800e-003</b>		<b>7.8300e-003</b>	<b>7.8300e-003</b>	<b>0.0000</b>	<b>21.0777</b>	<b>21.0777</b>	<b>5.3700e-003</b>	<b>0.0000</b>	<b>21.2120</b>

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**3.2 Demolition - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.6000e-004	3.2800e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.7862	0.7862	3.0000e-005	2.0000e-005	0.7939
<b>Total</b>	<b>4.0000e-004</b>	<b>2.6000e-004</b>	<b>3.2800e-003</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>1.0000e-005</b>	<b>9.6000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.7862</b>	<b>0.7862</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7939</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	0.0169	0.1662	0.1396	2.4000e-004		8.3800e-003	8.3800e-003		7.8300e-003	7.8300e-003	0.0000	21.0777	21.0777	5.3700e-003	0.0000	21.2119
<b>Total</b>	<b>0.0169</b>	<b>0.1662</b>	<b>0.1396</b>	<b>2.4000e-004</b>		<b>8.3800e-003</b>	<b>8.3800e-003</b>		<b>7.8300e-003</b>	<b>7.8300e-003</b>	<b>0.0000</b>	<b>21.0777</b>	<b>21.0777</b>	<b>5.3700e-003</b>	<b>0.0000</b>	<b>21.2119</b>

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**3.2 Demolition - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.6000e-004	3.2800e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.7862	0.7862	3.0000e-005	2.0000e-005	0.7939
<b>Total</b>	<b>4.0000e-004</b>	<b>2.6000e-004</b>	<b>3.2800e-003</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>1.0000e-005</b>	<b>9.6000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.7862</b>	<b>0.7862</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7939</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0700e-003	0.0235	0.0151	4.0000e-005		8.9000e-004	8.9000e-004		8.2000e-004	8.2000e-004	0.0000	3.2321	3.2321	1.0500e-003	0.0000	3.2582
<b>Total</b>	<b>2.0700e-003</b>	<b>0.0235</b>	<b>0.0151</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>8.9000e-004</b>	<b>3.2800e-003</b>	<b>2.6000e-004</b>	<b>8.2000e-004</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>3.2321</b>	<b>3.2321</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.2582</b>

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**3.3 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	3.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0726	0.0726	0.0000	0.0000	0.0733
<b>Total</b>	<b>4.0000e-005</b>	<b>2.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0726</b>	<b>0.0726</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0733</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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0700e-003	0.0235	0.0151	4.0000e-005		8.9000e-004	8.9000e-004		8.2000e-004	8.2000e-004	0.0000	3.2321	3.2321	1.0500e-003	0.0000	3.2582
<b>Total</b>	<b>2.0700e-003</b>	<b>0.0235</b>	<b>0.0151</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>8.9000e-004</b>	<b>3.2800e-003</b>	<b>2.6000e-004</b>	<b>8.2000e-004</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>3.2321</b>	<b>3.2321</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.2582</b>

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**3.3 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	3.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0726	0.0726	0.0000	0.0000	0.0733
<b>Total</b>	<b>4.0000e-005</b>	<b>2.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0726</b>	<b>0.0726</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0733</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6200e-003	0.0510	0.0277	6.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747
<b>Total</b>	<b>4.6200e-003</b>	<b>0.0510</b>	<b>0.0277</b>	<b>6.0000e-005</b>	<b>0.0213</b>	<b>2.2300e-003</b>	<b>0.0235</b>	<b>0.0103</b>	<b>2.0500e-003</b>	<b>0.0123</b>	<b>0.0000</b>	<b>5.4308</b>	<b>5.4308</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4747</b>

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

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	7.6000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1814	0.1814	1.0000e-005	1.0000e-005	0.1832
<b>Total</b>	<b>9.0000e-005</b>	<b>6.0000e-005</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1814</b>	<b>0.1814</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.1832</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					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6200e-003	0.0510	0.0277	6.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747
<b>Total</b>	<b>4.6200e-003</b>	<b>0.0510</b>	<b>0.0277</b>	<b>6.0000e-005</b>	<b>0.0213</b>	<b>2.2300e-003</b>	<b>0.0235</b>	<b>0.0103</b>	<b>2.0500e-003</b>	<b>0.0123</b>	<b>0.0000</b>	<b>5.4308</b>	<b>5.4308</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4747</b>

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

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	7.6000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1814	0.1814	1.0000e-005	1.0000e-005	0.1832
<b>Total</b>	<b>9.0000e-005</b>	<b>6.0000e-005</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1814</b>	<b>0.1814</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.1832</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0909	0.7156	0.7033	1.2300e-003		0.0344	0.0344		0.0330	0.0330	0.0000	101.7633	101.7633	0.0196	0.0000	102.2541
<b>Total</b>	<b>0.0909</b>	<b>0.7156</b>	<b>0.7033</b>	<b>1.2300e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0330</b>	<b>0.0330</b>	<b>0.0000</b>	<b>101.7633</b>	<b>101.7633</b>	<b>0.0196</b>	<b>0.0000</b>	<b>102.2541</b>

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

**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8800e-003	0.0506	0.0147	1.7000e-004	5.1600e-003	4.7000e-004	5.6300e-003	1.4900e-003	4.5000e-004	1.9400e-003	0.0000	16.9315	16.9315	4.4000e-004	2.4800e-003	17.6823
Worker	7.1000e-003	4.6200e-003	0.0581	1.5000e-004	0.0169	1.0000e-004	0.0170	4.5000e-003	9.0000e-005	4.5900e-003	0.0000	13.9279	13.9279	4.8000e-004	4.2000e-004	14.0647
<b>Total</b>	<b>8.9800e-003</b>	<b>0.0552</b>	<b>0.0728</b>	<b>3.2000e-004</b>	<b>0.0221</b>	<b>5.7000e-004</b>	<b>0.0226</b>	<b>5.9900e-003</b>	<b>5.4000e-004</b>	<b>6.5300e-003</b>	<b>0.0000</b>	<b>30.8594</b>	<b>30.8594</b>	<b>9.2000e-004</b>	<b>2.9000e-003</b>	<b>31.7470</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	0.0909	0.7156	0.7033	1.2300e-003		0.0344	0.0344		0.0330	0.0330	0.0000	101.7631	101.7631	0.0196	0.0000	102.2540
<b>Total</b>	<b>0.0909</b>	<b>0.7156</b>	<b>0.7033</b>	<b>1.2300e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0330</b>	<b>0.0330</b>	<b>0.0000</b>	<b>101.7631</b>	<b>101.7631</b>	<b>0.0196</b>	<b>0.0000</b>	<b>102.2540</b>

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**3.5 Building Construction - 2022**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8800e-003	0.0506	0.0147	1.7000e-004	5.1600e-003	4.7000e-004	5.6300e-003	1.4900e-003	4.5000e-004	1.9400e-003	0.0000	16.9315	16.9315	4.4000e-004	2.4800e-003	17.6823
Worker	7.1000e-003	4.6200e-003	0.0581	1.5000e-004	0.0169	1.0000e-004	0.0170	4.5000e-003	9.0000e-005	4.5900e-003	0.0000	13.9279	13.9279	4.8000e-004	4.2000e-004	14.0647
<b>Total</b>	<b>8.9800e-003</b>	<b>0.0552</b>	<b>0.0728</b>	<b>3.2000e-004</b>	<b>0.0221</b>	<b>5.7000e-004</b>	<b>0.0226</b>	<b>5.9900e-003</b>	<b>5.4000e-004</b>	<b>6.5300e-003</b>	<b>0.0000</b>	<b>30.8594</b>	<b>30.8594</b>	<b>9.2000e-004</b>	<b>2.9000e-003</b>	<b>31.7470</b>

**3.5 Building Construction - 2023**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1045	0.8311	0.8671	1.5300e-003		0.0374	0.0374		0.0359	0.0359	0.0000	126.6983	126.6983	0.0240	0.0000	127.2973
<b>Total</b>	<b>0.1045</b>	<b>0.8311</b>	<b>0.8671</b>	<b>1.5300e-003</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0359</b>	<b>0.0359</b>	<b>0.0000</b>	<b>126.6983</b>	<b>126.6983</b>	<b>0.0240</b>	<b>0.0000</b>	<b>127.2973</b>

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

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4300e-003	0.0535	0.0161	2.1000e-004	6.4300e-003	2.9000e-004	6.7100e-003	1.8600e-003	2.7000e-004	2.1300e-003	0.0000	20.3645	20.3645	5.0000e-004	2.9900e-003	21.2675
Worker	8.2200e-003	5.0900e-003	0.0668	1.8000e-004	0.0211	1.1000e-004	0.0212	5.6000e-003	1.0000e-004	5.7000e-003	0.0000	16.8918	16.8918	5.3000e-004	4.8000e-004	17.0491
<b>Total</b>	<b>9.6500e-003</b>	<b>0.0586</b>	<b>0.0830</b>	<b>3.9000e-004</b>	<b>0.0275</b>	<b>4.0000e-004</b>	<b>0.0279</b>	<b>7.4600e-003</b>	<b>3.7000e-004</b>	<b>7.8300e-003</b>	<b>0.0000</b>	<b>37.2564</b>	<b>37.2564</b>	<b>1.0300e-003</b>	<b>3.4700e-003</b>	<b>38.3166</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	0.1045	0.8311	0.8671	1.5300e-003		0.0374	0.0374		0.0359	0.0359	0.0000	126.6981	126.6981	0.0240	0.0000	127.2971
<b>Total</b>	<b>0.1045</b>	<b>0.8311</b>	<b>0.8671</b>	<b>1.5300e-003</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0359</b>	<b>0.0359</b>	<b>0.0000</b>	<b>126.6981</b>	<b>126.6981</b>	<b>0.0240</b>	<b>0.0000</b>	<b>127.2971</b>

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

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4300e-003	0.0535	0.0161	2.1000e-004	6.4300e-003	2.9000e-004	6.7100e-003	1.8600e-003	2.7000e-004	2.1300e-003	0.0000	20.3645	20.3645	5.0000e-004	2.9900e-003	21.2675
Worker	8.2200e-003	5.0900e-003	0.0668	1.8000e-004	0.0211	1.1000e-004	0.0212	5.6000e-003	1.0000e-004	5.7000e-003	0.0000	16.8918	16.8918	5.3000e-004	4.8000e-004	17.0491
<b>Total</b>	<b>9.6500e-003</b>	<b>0.0586</b>	<b>0.0830</b>	<b>3.9000e-004</b>	<b>0.0275</b>	<b>4.0000e-004</b>	<b>0.0279</b>	<b>7.4600e-003</b>	<b>3.7000e-004</b>	<b>7.8300e-003</b>	<b>0.0000</b>	<b>37.2564</b>	<b>37.2564</b>	<b>1.0300e-003</b>	<b>3.4700e-003</b>	<b>38.3166</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4000e-003	0.0431	0.0584	9.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	7.7564	7.7564	2.4600e-003	0.0000	7.8179
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>4.4000e-003</b>	<b>0.0431</b>	<b>0.0584</b>	<b>9.0000e-005</b>		<b>2.1700e-003</b>	<b>2.1700e-003</b>		<b>2.0000e-003</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>7.7564</b>	<b>7.7564</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8179</b>

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

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.3000e-004	1.7500e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4419	0.4419	1.0000e-005	1.0000e-005	0.4460
<b>Total</b>	<b>2.2000e-004</b>	<b>1.3000e-004</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4419</b>	<b>0.4419</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4460</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	4.4000e-003	0.0431	0.0584	9.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	7.7564	7.7564	2.4600e-003	0.0000	7.8178
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>4.4000e-003</b>	<b>0.0431</b>	<b>0.0584</b>	<b>9.0000e-005</b>		<b>2.1700e-003</b>	<b>2.1700e-003</b>		<b>2.0000e-003</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>7.7564</b>	<b>7.7564</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8178</b>

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**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.3000e-004	1.7500e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4419	0.4419	1.0000e-005	1.0000e-005	0.4460
<b>Total</b>	<b>2.2000e-004</b>	<b>1.3000e-004</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4419</b>	<b>0.4419</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4460</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5191					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
<b>Total</b>	<b>0.5201</b>	<b>6.5100e-003</b>	<b>9.0600e-003</b>	<b>1.0000e-005</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2785</b>

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

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	8.0000e-005	1.0500e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2651	0.2651	1.0000e-005	1.0000e-005	0.2676
<b>Total</b>	<b>1.3000e-004</b>	<b>8.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2651</b>	<b>0.2651</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2676</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5191					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
<b>Total</b>	<b>0.5201</b>	<b>6.5100e-003</b>	<b>9.0600e-003</b>	<b>1.0000e-005</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2785</b>

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

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	8.0000e-005	1.0500e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2651	0.2651	1.0000e-005	1.0000e-005	0.2676
<b>Total</b>	<b>1.3000e-004</b>	<b>8.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2651</b>	<b>0.2651</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2676</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	0.2512	0.3353	2.3611	4.9500e-003	0.5111	3.9400e-003	0.5150	0.1367	3.6800e-003	0.1403	0.0000	465.9186	465.9186	0.0311	0.0228	473.4826
Unmitigated	0.2512	0.3353	2.3611	4.9500e-003	0.5111	3.9400e-003	0.5150	0.1367	3.6800e-003	0.1403	0.0000	465.9186	465.9186	0.0311	0.0228	473.4826

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	440.16	719.04	570.08	1,378,892	1,378,892
Total	440.16	719.04	570.08	1,378,892	1,378,892

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	10.00	5.00	6.50	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	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351

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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	269.5198	269.5198	0.0249	3.0100e-003	271.0384
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	269.5198	269.5198	0.0249	3.0100e-003	271.0384
NaturalGas Mitigated	0.0215	0.1953	0.1640	1.1700e-003		0.0148	0.0148		0.0148	0.0148	0.0000	212.5929	212.5929	4.0700e-003	3.9000e-003	213.8562
NaturalGas Unmitigated	0.0215	0.1953	0.1640	1.1700e-003		0.0148	0.0148		0.0148	0.0148	0.0000	212.5929	212.5929	4.0700e-003	3.9000e-003	213.8562

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	3.98384e+006	0.0215	0.1953	0.1640	1.1700e-003		0.0148	0.0148		0.0148	0.0148	0.0000	212.5929	212.5929	4.0700e-003	3.9000e-003	213.8562
<b>Total</b>		<b>0.0215</b>	<b>0.1953</b>	<b>0.1640</b>	<b>1.1700e-003</b>		<b>0.0148</b>	<b>0.0148</b>		<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>212.5929</b>	<b>212.5929</b>	<b>4.0700e-003</b>	<b>3.9000e-003</b>	<b>213.8562</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					
General Heavy Industry	3.98384e+006	0.0215	0.1953	0.1640	1.1700e-003		0.0148	0.0148		0.0148	0.0148	0.0000	212.5929	212.5929	4.0700e-003	3.9000e-003	213.8562
<b>Total</b>		<b>0.0215</b>	<b>0.1953</b>	<b>0.1640</b>	<b>1.1700e-003</b>		<b>0.0148</b>	<b>0.0148</b>		<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>212.5929</b>	<b>212.5929</b>	<b>4.0700e-003</b>	<b>3.9000e-003</b>	<b>213.8562</b>

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	1.65984e+006	269.5198	0.0249	3.0100e-003	271.0384
<b>Total</b>		<b>269.5198</b>	<b>0.0249</b>	<b>3.0100e-003</b>	<b>271.0384</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	1.65984e+006	269.5198	0.0249	3.0100e-003	271.0384
<b>Total</b>		<b>269.5198</b>	<b>0.0249</b>	<b>3.0100e-003</b>	<b>271.0384</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4895	1.0000e-005	1.4300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.7800e-003	2.7800e-003	1.0000e-005	0.0000	2.9600e-003
Unmitigated	0.4895	1.0000e-005	1.4300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.7800e-003	2.7800e-003	1.0000e-005	0.0000	2.9600e-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	0.0519					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4374					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e-004	1.0000e-005	1.4300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.7800e-003	2.7800e-003	1.0000e-005	0.0000	2.9600e-003
<b>Total</b>	<b>0.4895</b>	<b>1.0000e-005</b>	<b>1.4300e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.7800e-003</b>	<b>2.7800e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.9600e-003</b>

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0519					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4374					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e-004	1.0000e-005	1.4300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.7800e-003	2.7800e-003	1.0000e-005	0.0000	2.9600e-003
<b>Total</b>	<b>0.4895</b>	<b>1.0000e-005</b>	<b>1.4300e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.7800e-003</b>	<b>2.7800e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.9600e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	30.1181	0.0335	0.0202	36.9631
Unmitigated	30.1181	0.0335	0.0202	36.9631

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	25.9 / 0	30.1181	0.0335	0.0202	36.9631
<b>Total</b>		<b>30.1181</b>	<b>0.0335</b>	<b>0.0202</b>	<b>36.9631</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	25.9 / 0	30.1181	0.0335	0.0202	36.9631
<b>Total</b>		<b>30.1181</b>	<b>0.0335</b>	<b>0.0202</b>	<b>36.9631</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	28.1914	1.6661	0.0000	69.8430
Unmitigated	28.1914	1.6661	0.0000	69.8430

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	138.88	28.1914	1.6661	0.0000	69.8430
<b>Total</b>		<b>28.1914</b>	<b>1.6661</b>	<b>0.0000</b>	<b>69.8430</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	138.88	28.1914	1.6661	0.0000	69.8430
<b>Total</b>		<b>28.1914</b>	<b>1.6661</b>	<b>0.0000</b>	<b>69.8430</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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