

TTM 20403 and 20404 - San Bernardino-South Coast County, Annual

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

**TTM 20403 and 20404**  
**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	126.00	Dwelling Unit	49.73	226,800.00	360
Other Asphalt Surfaces	15.11	Acre	15.11	658,191.60	0
Other Non-Asphalt Surfaces	1.83	Acre	1.83	79,714.80	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2025
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	531.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use - Per Site Plan

Construction Phase -

Vehicle Trips - Per TIA

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	40.91	49.73
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00

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tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	9.54	9.43
tblVehicleTrips	SU_TR	8.55	9.43
tblVehicleTrips	WD_TR	9.44	9.43

**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	0.2987	2.8475	2.5355	5.9400e-003	1.0077	0.1185	1.1262	0.4322	0.1093	0.5415	0.0000	528.4824	528.4824	0.1325	8.6800e-003	534.3800
2024	0.3627	2.5217	3.7801	0.0108	0.6206	0.0874	0.7080	0.1674	0.0822	0.2496	0.0000	987.3515	987.3515	0.0890	0.0546	1,005.8453
2025	0.3370	2.3695	3.6494	0.0106	0.6183	0.0757	0.6940	0.1667	0.0712	0.2380	0.0000	964.8588	964.8588	0.0871	0.0528	982.7714
2026	0.3277	2.3552	3.5614	0.0104	0.6183	0.0756	0.6938	0.1667	0.0711	0.2378	0.0000	947.4466	947.4466	0.0861	0.0513	964.8976
2027	0.3192	2.3423	3.4860	0.0102	0.6183	0.0754	0.6936	0.1667	0.0710	0.2377	0.0000	930.9397	930.9397	0.0852	0.0499	947.9505
2028	0.9117	0.6020	1.0307	2.2200e-003	0.0970	0.0253	0.1222	0.0260	0.0236	0.0496	0.0000	199.2908	199.2908	0.0337	5.3900e-003	201.7388
<b>Maximum</b>	<b>0.9117</b>	<b>2.8475</b>	<b>3.7801</b>	<b>0.0108</b>	<b>1.0077</b>	<b>0.1185</b>	<b>1.1262</b>	<b>0.4322</b>	<b>0.1093</b>	<b>0.5415</b>	<b>0.0000</b>	<b>987.3515</b>	<b>987.3515</b>	<b>0.1325</b>	<b>0.0546</b>	<b>1,005.8453</b>

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**2.1 Overall Construction**

**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	0.2987	2.8475	2.5355	5.9400e-003	0.5131	0.1185	0.6316	0.2105	0.1093	0.3198	0.0000	528.4819	528.4819	0.1325	8.6800e-003	534.3795
2024	0.3627	2.5217	3.7801	0.0108	0.6206	0.0874	0.7080	0.1674	0.0822	0.2496	0.0000	987.3512	987.3512	0.0890	0.0546	1,005.8449
2025	0.3370	2.3695	3.6494	0.0106	0.6183	0.0757	0.6940	0.1667	0.0712	0.2380	0.0000	964.8585	964.8585	0.0871	0.0528	982.7710
2026	0.3277	2.3552	3.5614	0.0104	0.6183	0.0756	0.6938	0.1667	0.0711	0.2378	0.0000	947.4462	947.4462	0.0861	0.0513	964.8972
2027	0.3192	2.3423	3.4860	0.0102	0.6183	0.0754	0.6936	0.1667	0.0710	0.2377	0.0000	930.9393	930.9393	0.0852	0.0499	947.9501
2028	0.9117	0.6020	1.0307	2.2200e-003	0.0970	0.0253	0.1222	0.0260	0.0236	0.0496	0.0000	199.2907	199.2907	0.0337	5.3900e-003	201.7387
<b>Maximum</b>	<b>0.9117</b>	<b>2.8475</b>	<b>3.7801</b>	<b>0.0108</b>	<b>0.6206</b>	<b>0.1185</b>	<b>0.7080</b>	<b>0.2105</b>	<b>0.1093</b>	<b>0.3198</b>	<b>0.0000</b>	<b>987.3512</b>	<b>987.3512</b>	<b>0.1325</b>	<b>0.0546</b>	<b>1,005.8449</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>13.82</b>	<b>0.00</b>	<b>12.25</b>	<b>19.69</b>	<b>0.00</b>	<b>14.26</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>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
2	4-3-2023	7-2-2023	0.9720	0.9720
3	7-3-2023	10-2-2023	1.2473	1.2473
4	10-3-2023	1-2-2024	0.9477	0.9477
5	1-3-2024	4-2-2024	0.7178	0.7178
6	4-3-2024	7-2-2024	0.7098	0.7098

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7	7-3-2024	10-2-2024	0.7178	0.7178
8	10-3-2024	1-2-2025	0.7249	0.7249
9	1-3-2025	4-2-2025	0.6687	0.6687
10	4-3-2025	7-2-2025	0.6683	0.6683
11	7-3-2025	10-2-2025	0.6758	0.6758
12	10-3-2025	1-2-2026	0.6837	0.6837
13	1-3-2026	4-2-2026	0.6629	0.6629
14	4-3-2026	7-2-2026	0.6624	0.6624
15	7-3-2026	10-2-2026	0.6698	0.6698
16	10-3-2026	1-2-2027	0.6777	0.6777
17	1-3-2027	4-2-2027	0.6577	0.6577
18	4-3-2027	7-2-2027	0.6571	0.6571
19	7-3-2027	10-2-2027	0.6644	0.6644
20	10-3-2027	1-2-2028	0.6723	0.6723
21	1-3-2028	4-2-2028	0.4595	0.4595
22	4-3-2028	7-2-2028	0.5209	0.5209
23	7-3-2028	9-30-2028	0.5319	0.5319
		Highest	1.2473	1.2473

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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	1.4002	0.0476	2.0994	2.1100e-003		0.1275	0.1275		0.1275	0.1275	13.3836	27.8417	41.2253	0.0420	9.1000e-004	42.5446
Energy	0.0192	0.1642	0.0699	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	432.3549	432.3549	0.0187	5.3100e-003	434.4033
Mobile	0.6274	1.0298	6.8076	0.0159	1.7243	0.0126	1.7369	0.4606	0.0118	0.4723	0.0000	1,469.6819	1,469.6819	0.0801	0.0724	1,493.2670
Waste						0.0000	0.0000		0.0000	0.0000	29.9615	0.0000	29.9615	1.7707	0.0000	74.2283
Water						0.0000	0.0000		0.0000	0.0000	2.6045	39.6687	42.2732	0.2700	6.6100e-003	50.9935
<b>Total</b>	<b>2.0468</b>	<b>1.2416</b>	<b>8.9769</b>	<b>0.0190</b>	<b>1.7243</b>	<b>0.1534</b>	<b>1.8777</b>	<b>0.4606</b>	<b>0.1526</b>	<b>0.6131</b>	<b>45.9495</b>	<b>1,969.5471</b>	<b>2,015.4967</b>	<b>2.1813</b>	<b>0.0853</b>	<b>2,095.4366</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	1.4002	0.0476	2.0994	2.1100e-003		0.1275	0.1275		0.1275	0.1275	13.3836	27.8417	41.2253	0.0420	9.1000e-004	42.5446
Energy	0.0192	0.1642	0.0699	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	432.3549	432.3549	0.0187	5.3100e-003	434.4033
Mobile	0.6274	1.0298	6.8076	0.0159	1.7243	0.0126	1.7369	0.4606	0.0118	0.4723	0.0000	1,469.6819	1,469.6819	0.0801	0.0724	1,493.2670
Waste						0.0000	0.0000		0.0000	0.0000	29.9615	0.0000	29.9615	1.7707	0.0000	74.2283
Water						0.0000	0.0000		0.0000	0.0000	2.6045	39.6687	42.2732	0.2700	6.6100e-003	50.9935
<b>Total</b>	<b>2.0468</b>	<b>1.2416</b>	<b>8.9769</b>	<b>0.0190</b>	<b>1.7243</b>	<b>0.1534</b>	<b>1.8777</b>	<b>0.4606</b>	<b>0.1526</b>	<b>0.6131</b>	<b>45.9495</b>	<b>1,969.5471</b>	<b>2,015.4967</b>	<b>2.1813</b>	<b>0.0853</b>	<b>2,095.4366</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	Site Preparation	Site Preparation	4/11/2023	6/5/2023	5	40	
2	Grading	Grading	6/6/2023	11/6/2023	5	110	
3	Building Construction	Building Construction	11/7/2023	2/7/2028	5	1110	

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4	Paving	Paving	2/8/2028	5/22/2028	5	75
5	Architectural Coating	Architectural Coating	5/23/2028	9/4/2028	5	75

**Acres of Grading (Site Preparation Phase): 60**

**Acres of Grading (Grading Phase): 330**

**Acres of Paving: 16.94**

**Residential Indoor: 459,270; Residential Outdoor: 153,090; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 44,274 (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
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

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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
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	355.00	134.00	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	71.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 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					0.3931	0.0000	0.3931	0.2021	0.0000	0.2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0532	0.5505	0.3649	7.6000e-004		0.0253	0.0253		0.0233	0.0233	0.0000	66.9014	66.9014	0.0216	0.0000	67.4423
<b>Total</b>	<b>0.0532</b>	<b>0.5505</b>	<b>0.3649</b>	<b>7.6000e-004</b>	<b>0.3931</b>	<b>0.0253</b>	<b>0.4185</b>	<b>0.2021</b>	<b>0.0233</b>	<b>0.2253</b>	<b>0.0000</b>	<b>66.9014</b>	<b>66.9014</b>	<b>0.0216</b>	<b>0.0000</b>	<b>67.4423</b>



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**3.2 Site Preparation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2500e-003	9.4000e-004	0.0117	3.0000e-005	3.9500e-003	2.0000e-005	3.9700e-003	1.0500e-003	2.0000e-005	1.0700e-003	0.0000	3.0447	3.0447	8.0000e-005	8.0000e-005	3.0717
<b>Total</b>	<b>1.2500e-003</b>	<b>9.4000e-004</b>	<b>0.0117</b>	<b>3.0000e-005</b>	<b>3.9500e-003</b>	<b>2.0000e-005</b>	<b>3.9700e-003</b>	<b>1.0500e-003</b>	<b>2.0000e-005</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>3.0447</b>	<b>3.0447</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>3.0717</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					0.1769	0.0000	0.1769	0.0909	0.0000	0.0909	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0532	0.5505	0.3649	7.6000e-004		0.0253	0.0253		0.0233	0.0233	0.0000	66.9013	66.9013	0.0216	0.0000	67.4422
<b>Total</b>	<b>0.0532</b>	<b>0.5505</b>	<b>0.3649</b>	<b>7.6000e-004</b>	<b>0.1769</b>	<b>0.0253</b>	<b>0.2022</b>	<b>0.0909</b>	<b>0.0233</b>	<b>0.1142</b>	<b>0.0000</b>	<b>66.9013</b>	<b>66.9013</b>	<b>0.0216</b>	<b>0.0000</b>	<b>67.4422</b>

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**3.2 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2500e-003	9.4000e-004	0.0117	3.0000e-005	3.9500e-003	2.0000e-005	3.9700e-003	1.0500e-003	2.0000e-005	1.0700e-003	0.0000	3.0447	3.0447	8.0000e-005	8.0000e-005	3.0717
<b>Total</b>	<b>1.2500e-003</b>	<b>9.4000e-004</b>	<b>0.0117</b>	<b>3.0000e-005</b>	<b>3.9500e-003</b>	<b>2.0000e-005</b>	<b>3.9700e-003</b>	<b>1.0500e-003</b>	<b>2.0000e-005</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>3.0447</b>	<b>3.0447</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>3.0717</b>

**3.3 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					0.5062	0.0000	0.5062	0.2010	0.0000	0.2010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1827	1.8984	1.5428	3.4100e-003		0.0784	0.0784		0.0721	0.0721	0.0000	299.9437	299.9437	0.0970	0.0000	302.3688
<b>Total</b>	<b>0.1827</b>	<b>1.8984</b>	<b>1.5428</b>	<b>3.4100e-003</b>	<b>0.5062</b>	<b>0.0784</b>	<b>0.5846</b>	<b>0.2010</b>	<b>0.0721</b>	<b>0.2730</b>	<b>0.0000</b>	<b>299.9437</b>	<b>299.9437</b>	<b>0.0970</b>	<b>0.0000</b>	<b>302.3688</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 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8300e-003	2.8600e-003	0.0357	1.0000e-004	0.0121	6.0000e-005	0.0121	3.2000e-003	6.0000e-005	3.2600e-003	0.0000	9.3033	9.3033	2.5000e-004	2.6000e-004	9.3856
<b>Total</b>	<b>3.8300e-003</b>	<b>2.8600e-003</b>	<b>0.0357</b>	<b>1.0000e-004</b>	<b>0.0121</b>	<b>6.0000e-005</b>	<b>0.0121</b>	<b>3.2000e-003</b>	<b>6.0000e-005</b>	<b>3.2600e-003</b>	<b>0.0000</b>	<b>9.3033</b>	<b>9.3033</b>	<b>2.5000e-004</b>	<b>2.6000e-004</b>	<b>9.3856</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					0.2278	0.0000	0.2278	0.0904	0.0000	0.0904	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1827	1.8984	1.5428	3.4100e-003		0.0784	0.0784		0.0721	0.0721	0.0000	299.9433	299.9433	0.0970	0.0000	302.3685
<b>Total</b>	<b>0.1827</b>	<b>1.8984</b>	<b>1.5428</b>	<b>3.4100e-003</b>	<b>0.2278</b>	<b>0.0784</b>	<b>0.3061</b>	<b>0.0904</b>	<b>0.0721</b>	<b>0.1625</b>	<b>0.0000</b>	<b>299.9433</b>	<b>299.9433</b>	<b>0.0970</b>	<b>0.0000</b>	<b>302.3685</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 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8300e-003	2.8600e-003	0.0357	1.0000e-004	0.0121	6.0000e-005	0.0121	3.2000e-003	6.0000e-005	3.2600e-003	0.0000	9.3033	9.3033	2.5000e-004	2.6000e-004	9.3856
<b>Total</b>	<b>3.8300e-003</b>	<b>2.8600e-003</b>	<b>0.0357</b>	<b>1.0000e-004</b>	<b>0.0121</b>	<b>6.0000e-005</b>	<b>0.0121</b>	<b>3.2000e-003</b>	<b>6.0000e-005</b>	<b>3.2600e-003</b>	<b>0.0000</b>	<b>9.3033</b>	<b>9.3033</b>	<b>2.5000e-004</b>	<b>2.6000e-004</b>	<b>9.3856</b>

**3.4 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	0.0307	0.2805	0.3168	5.3000e-004		0.0136	0.0136		0.0128	0.0128	0.0000	45.2019	45.2019	0.0108	0.0000	45.4708
<b>Total</b>	<b>0.0307</b>	<b>0.2805</b>	<b>0.3168</b>	<b>5.3000e-004</b>		<b>0.0136</b>	<b>0.0136</b>		<b>0.0128</b>	<b>0.0128</b>	<b>0.0000</b>	<b>45.2019</b>	<b>45.2019</b>	<b>0.0108</b>	<b>0.0000</b>	<b>45.4708</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 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	2.9500e-003	0.0964	0.0390	4.7000e-004	0.0165	6.9000e-004	0.0172	4.7600e-003	6.6000e-004	5.4200e-003	0.0000	45.5402	45.5402	1.1900e-003	6.7300e-003	47.5753
Worker	0.0241	0.0180	0.2246	6.4000e-004	0.0759	3.8000e-004	0.0763	0.0202	3.5000e-004	0.0205	0.0000	58.5473	58.5473	1.5600e-003	1.6100e-003	59.0655
<b>Total</b>	<b>0.0271</b>	<b>0.1144</b>	<b>0.2637</b>	<b>1.1100e-003</b>	<b>0.0924</b>	<b>1.0700e-003</b>	<b>0.0935</b>	<b>0.0249</b>	<b>1.0100e-003</b>	<b>0.0259</b>	<b>0.0000</b>	<b>104.0874</b>	<b>104.0874</b>	<b>2.7500e-003</b>	<b>8.3400e-003</b>	<b>106.6408</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	0.0307	0.2805	0.3168	5.3000e-004		0.0136	0.0136		0.0128	0.0128	0.0000	45.2019	45.2019	0.0108	0.0000	45.4707
<b>Total</b>	<b>0.0307</b>	<b>0.2805</b>	<b>0.3168</b>	<b>5.3000e-004</b>		<b>0.0136</b>	<b>0.0136</b>		<b>0.0128</b>	<b>0.0128</b>	<b>0.0000</b>	<b>45.2019</b>	<b>45.2019</b>	<b>0.0108</b>	<b>0.0000</b>	<b>45.4707</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 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	2.9500e-003	0.0964	0.0390	4.7000e-004	0.0165	6.9000e-004	0.0172	4.7600e-003	6.6000e-004	5.4200e-003	0.0000	45.5402	45.5402	1.1900e-003	6.7300e-003	47.5753
Worker	0.0241	0.0180	0.2246	6.4000e-004	0.0759	3.8000e-004	0.0763	0.0202	3.5000e-004	0.0205	0.0000	58.5473	58.5473	1.5600e-003	1.6100e-003	59.0655
<b>Total</b>	<b>0.0271</b>	<b>0.1144</b>	<b>0.2637</b>	<b>1.1100e-003</b>	<b>0.0924</b>	<b>1.0700e-003</b>	<b>0.0935</b>	<b>0.0249</b>	<b>1.0100e-003</b>	<b>0.0259</b>	<b>0.0000</b>	<b>104.0874</b>	<b>104.0874</b>	<b>2.7500e-003</b>	<b>8.3400e-003</b>	<b>106.6408</b>

**3.4 Building Construction - 2024**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7223</b>	<b>303.7223</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5179</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 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0193	0.6534	0.2579	3.1000e-003	0.1107	4.5600e-003	0.1153	0.0320	4.3700e-003	0.0363	0.0000	301.7243	301.7243	7.7200e-003	0.0446	315.2025
Worker	0.1506	0.1072	1.4044	4.1600e-003	0.5099	2.4600e-003	0.5124	0.1354	2.2600e-003	0.1377	0.0000	381.9049	381.9049	9.4700e-003	0.0100	385.1250
<b>Total</b>	<b>0.1699</b>	<b>0.7606</b>	<b>1.6622</b>	<b>7.2600e-003</b>	<b>0.6206</b>	<b>7.0200e-003</b>	<b>0.6276</b>	<b>0.1674</b>	<b>6.6300e-003</b>	<b>0.1740</b>	<b>0.0000</b>	<b>683.6292</b>	<b>683.6292</b>	<b>0.0172</b>	<b>0.0546</b>	<b>700.3274</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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7220</b>	<b>303.7220</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5175</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 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0193	0.6534	0.2579	3.1000e-003	0.1107	4.5600e-003	0.1153	0.0320	4.3700e-003	0.0363	0.0000	301.7243	301.7243	7.7200e-003	0.0446	315.2025
Worker	0.1506	0.1072	1.4044	4.1600e-003	0.5099	2.4600e-003	0.5124	0.1354	2.2600e-003	0.1377	0.0000	381.9049	381.9049	9.4700e-003	0.0100	385.1250
<b>Total</b>	<b>0.1699</b>	<b>0.7606</b>	<b>1.6622</b>	<b>7.2600e-003</b>	<b>0.6206</b>	<b>7.0200e-003</b>	<b>0.6276</b>	<b>0.1674</b>	<b>6.6300e-003</b>	<b>0.1740</b>	<b>0.0000</b>	<b>683.6292</b>	<b>683.6292</b>	<b>0.0172</b>	<b>0.0546</b>	<b>700.3274</b>

**3.4 Building Construction - 2025**

**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	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>



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**3.4 Building Construction - 2025**

**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	0.0189	0.6470	0.2529	3.0300e-003	0.1103	4.5400e-003	0.1148	0.0318	4.3400e-003	0.0362	0.0000	294.7321	294.7321	7.4700e-003	0.0435	307.8882
Worker	0.1396	0.0952	1.2975	4.0100e-003	0.5080	2.3200e-003	0.5103	0.1349	2.1400e-003	0.1371	0.0000	367.4719	367.4719	8.5100e-003	9.2800e-003	370.4497
<b>Total</b>	<b>0.1585</b>	<b>0.7422</b>	<b>1.5503</b>	<b>7.0400e-003</b>	<b>0.6183</b>	<b>6.8600e-003</b>	<b>0.6251</b>	<b>0.1667</b>	<b>6.4800e-003</b>	<b>0.1732</b>	<b>0.0000</b>	<b>662.2040</b>	<b>662.2040</b>	<b>0.0160</b>	<b>0.0528</b>	<b>678.3379</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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

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**3.4 Building Construction - 2025**

**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	0.0189	0.6470	0.2529	3.0300e-003	0.1103	4.5400e-003	0.1148	0.0318	4.3400e-003	0.0362	0.0000	294.7321	294.7321	7.4700e-003	0.0435	307.8882
Worker	0.1396	0.0952	1.2975	4.0100e-003	0.5080	2.3200e-003	0.5103	0.1349	2.1400e-003	0.1371	0.0000	367.4719	367.4719	8.5100e-003	9.2800e-003	370.4497
<b>Total</b>	<b>0.1585</b>	<b>0.7422</b>	<b>1.5503</b>	<b>7.0400e-003</b>	<b>0.6183</b>	<b>6.8600e-003</b>	<b>0.6251</b>	<b>0.1667</b>	<b>6.4800e-003</b>	<b>0.1732</b>	<b>0.0000</b>	<b>662.2040</b>	<b>662.2040</b>	<b>0.0160</b>	<b>0.0528</b>	<b>678.3379</b>

**3.4 Building Construction - 2026**

**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	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</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 Building Construction - 2026**

**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	0.0186	0.6422	0.2495	2.9700e-003	0.1103	4.5100e-003	0.1148	0.0318	4.3200e-003	0.0362	0.0000	288.8772	288.8772	7.2400e-003	0.0426	301.7619
Worker	0.1307	0.0857	1.2128	3.8800e-003	0.5080	2.2000e-003	0.5102	0.1349	2.0200e-003	0.1369	0.0000	355.9145	355.9145	7.7100e-003	8.7100e-003	358.7022
<b>Total</b>	<b>0.1492</b>	<b>0.7279</b>	<b>1.4623</b>	<b>6.8500e-003</b>	<b>0.6183</b>	<b>6.7100e-003</b>	<b>0.6250</b>	<b>0.1667</b>	<b>6.3400e-003</b>	<b>0.1731</b>	<b>0.0000</b>	<b>644.7917</b>	<b>644.7917</b>	<b>0.0150</b>	<b>0.0513</b>	<b>660.4641</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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</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 Building Construction - 2026**

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	0.0186	0.6422	0.2495	2.9700e-003	0.1103	4.5100e-003	0.1148	0.0318	4.3200e-003	0.0362	0.0000	288.8772	288.8772	7.2400e-003	0.0426	301.7619
Worker	0.1307	0.0857	1.2128	3.8800e-003	0.5080	2.2000e-003	0.5102	0.1349	2.0200e-003	0.1369	0.0000	355.9145	355.9145	7.7100e-003	8.7100e-003	358.7022
<b>Total</b>	<b>0.1492</b>	<b>0.7279</b>	<b>1.4623</b>	<b>6.8500e-003</b>	<b>0.6183</b>	<b>6.7100e-003</b>	<b>0.6250</b>	<b>0.1667</b>	<b>6.3400e-003</b>	<b>0.1731</b>	<b>0.0000</b>	<b>644.7917</b>	<b>644.7917</b>	<b>0.0150</b>	<b>0.0513</b>	<b>660.4641</b>

**3.4 Building Construction - 2027**

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	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</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 Building Construction - 2027**

**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	0.0183	0.6373	0.2467	2.9100e-003	0.1103	4.4800e-003	0.1148	0.0318	4.2900e-003	0.0361	0.0000	282.7703	282.7703	7.0000e-003	0.0417	295.3747
Worker	0.1225	0.0778	1.1403	3.7700e-003	0.5080	2.0700e-003	0.5100	0.1349	1.9000e-003	0.1368	0.0000	345.5145	345.5145	7.0200e-003	8.2300e-003	348.1422
<b>Total</b>	<b>0.1407</b>	<b>0.7150</b>	<b>1.3870</b>	<b>6.6800e-003</b>	<b>0.6183</b>	<b>6.5500e-003</b>	<b>0.6248</b>	<b>0.1667</b>	<b>6.1900e-003</b>	<b>0.1729</b>	<b>0.0000</b>	<b>628.2848</b>	<b>628.2848</b>	<b>0.0140</b>	<b>0.0499</b>	<b>643.5170</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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</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 Building Construction - 2027**

**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	0.0183	0.6373	0.2467	2.9100e-003	0.1103	4.4800e-003	0.1148	0.0318	4.2900e-003	0.0361	0.0000	282.7703	282.7703	7.0000e-003	0.0417	295.3747
Worker	0.1225	0.0778	1.1403	3.7700e-003	0.5080	2.0700e-003	0.5100	0.1349	1.9000e-003	0.1368	0.0000	345.5145	345.5145	7.0200e-003	8.2300e-003	348.1422
<b>Total</b>	<b>0.1407</b>	<b>0.7150</b>	<b>1.3870</b>	<b>6.6800e-003</b>	<b>0.6183</b>	<b>6.5500e-003</b>	<b>0.6248</b>	<b>0.1667</b>	<b>6.1900e-003</b>	<b>0.1729</b>	<b>0.0000</b>	<b>628.2848</b>	<b>628.2848</b>	<b>0.0140</b>	<b>0.0499</b>	<b>643.5170</b>

**3.4 Building Construction - 2028**

**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	0.0178	0.1621	0.2091	3.5000e-004		6.8600e-003	6.8600e-003		6.4500e-003	6.4500e-003	0.0000	30.1495	30.1495	7.0900e-003	0.0000	30.3267
<b>Total</b>	<b>0.0178</b>	<b>0.1621</b>	<b>0.2091</b>	<b>3.5000e-004</b>		<b>6.8600e-003</b>	<b>6.8600e-003</b>		<b>6.4500e-003</b>	<b>6.4500e-003</b>	<b>0.0000</b>	<b>30.1495</b>	<b>30.1495</b>	<b>7.0900e-003</b>	<b>0.0000</b>	<b>30.3267</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 Building Construction - 2028**

**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	1.8000e-003	0.0631	0.0244	2.8000e-004	0.0110	4.4000e-004	0.0114	3.1700e-003	4.2000e-004	3.6000e-003	0.0000	27.5876	27.5876	6.8000e-004	4.0700e-003	28.8164
Worker	0.0114	7.0800e-003	0.1076	3.7000e-004	0.0506	1.9000e-004	0.0508	0.0134	1.8000e-004	0.0136	0.0000	33.4980	33.4980	6.4000e-004	7.8000e-004	33.7465
<b>Total</b>	<b>0.0132</b>	<b>0.0702</b>	<b>0.1319</b>	<b>6.5000e-004</b>	<b>0.0616</b>	<b>6.3000e-004</b>	<b>0.0622</b>	<b>0.0166</b>	<b>6.0000e-004</b>	<b>0.0172</b>	<b>0.0000</b>	<b>61.0857</b>	<b>61.0857</b>	<b>1.3200e-003</b>	<b>4.8500e-003</b>	<b>62.5628</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	0.0178	0.1621	0.2091	3.5000e-004		6.8600e-003	6.8600e-003		6.4500e-003	6.4500e-003	0.0000	30.1495	30.1495	7.0900e-003	0.0000	30.3267
<b>Total</b>	<b>0.0178</b>	<b>0.1621</b>	<b>0.2091</b>	<b>3.5000e-004</b>		<b>6.8600e-003</b>	<b>6.8600e-003</b>		<b>6.4500e-003</b>	<b>6.4500e-003</b>	<b>0.0000</b>	<b>30.1495</b>	<b>30.1495</b>	<b>7.0900e-003</b>	<b>0.0000</b>	<b>30.3267</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 Building Construction - 2028**

**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	1.8000e-003	0.0631	0.0244	2.8000e-004	0.0110	4.4000e-004	0.0114	3.1700e-003	4.2000e-004	3.6000e-003	0.0000	27.5876	27.5876	6.8000e-004	4.0700e-003	28.8164
Worker	0.0114	7.0800e-003	0.1076	3.7000e-004	0.0506	1.9000e-004	0.0508	0.0134	1.8000e-004	0.0136	0.0000	33.4980	33.4980	6.4000e-004	7.8000e-004	33.7465
<b>Total</b>	<b>0.0132</b>	<b>0.0702</b>	<b>0.1319</b>	<b>6.5000e-004</b>	<b>0.0616</b>	<b>6.3000e-004</b>	<b>0.0622</b>	<b>0.0166</b>	<b>6.0000e-004</b>	<b>0.0172</b>	<b>0.0000</b>	<b>61.0857</b>	<b>61.0857</b>	<b>1.3200e-003</b>	<b>4.8500e-003</b>	<b>62.5628</b>

**3.5 Paving - 2028**

**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	0.0343	0.3218	0.5467	8.5000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	75.0722	75.0722	0.0243	0.0000	75.6792
Paving	0.0198					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0541</b>	<b>0.3218</b>	<b>0.5467</b>	<b>8.5000e-004</b>		<b>0.0157</b>	<b>0.0157</b>		<b>0.0144</b>	<b>0.0144</b>	<b>0.0000</b>	<b>75.0722</b>	<b>75.0722</b>	<b>0.0243</b>	<b>0.0000</b>	<b>75.6792</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 Paving - 2028**

**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	1.3900e-003	8.6000e-004	0.0131	4.0000e-005	6.1700e-003	2.0000e-005	6.1900e-003	1.6400e-003	2.0000e-005	1.6600e-003	0.0000	4.0829	4.0829	8.0000e-005	1.0000e-004	4.1132
<b>Total</b>	<b>1.3900e-003</b>	<b>8.6000e-004</b>	<b>0.0131</b>	<b>4.0000e-005</b>	<b>6.1700e-003</b>	<b>2.0000e-005</b>	<b>6.1900e-003</b>	<b>1.6400e-003</b>	<b>2.0000e-005</b>	<b>1.6600e-003</b>	<b>0.0000</b>	<b>4.0829</b>	<b>4.0829</b>	<b>8.0000e-005</b>	<b>1.0000e-004</b>	<b>4.1132</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	0.0343	0.3218	0.5467	8.5000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	75.0721	75.0721	0.0243	0.0000	75.6791
Paving	0.0198					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0541</b>	<b>0.3218</b>	<b>0.5467</b>	<b>8.5000e-004</b>		<b>0.0157</b>	<b>0.0157</b>		<b>0.0144</b>	<b>0.0144</b>	<b>0.0000</b>	<b>75.0721</b>	<b>75.0721</b>	<b>0.0243</b>	<b>0.0000</b>	<b>75.6791</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 Paving - 2028**

**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	1.3900e-003	8.6000e-004	0.0131	4.0000e-005	6.1700e-003	2.0000e-005	6.1900e-003	1.6400e-003	2.0000e-005	1.6600e-003	0.0000	4.0829	4.0829	8.0000e-005	1.0000e-004	4.1132
<b>Total</b>	<b>1.3900e-003</b>	<b>8.6000e-004</b>	<b>0.0131</b>	<b>4.0000e-005</b>	<b>6.1700e-003</b>	<b>2.0000e-005</b>	<b>6.1900e-003</b>	<b>1.6400e-003</b>	<b>2.0000e-005</b>	<b>1.6600e-003</b>	<b>0.0000</b>	<b>4.0829</b>	<b>4.0829</b>	<b>8.0000e-005</b>	<b>1.0000e-004</b>	<b>4.1132</b>

**3.6 Architectural Coating - 2028**

**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	0.8122					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4100e-003	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
<b>Total</b>	<b>0.8186</b>	<b>0.0430</b>	<b>0.0678</b>	<b>1.1000e-004</b>		<b>1.9300e-003</b>	<b>1.9300e-003</b>		<b>1.9300e-003</b>	<b>1.9300e-003</b>	<b>0.0000</b>	<b>9.5747</b>	<b>9.5747</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>9.5878</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 Architectural Coating - 2028**

**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	6.6000e-003	4.0800e-003	0.0621	2.1000e-004	0.0292	1.1000e-004	0.0293	7.7500e-003	1.0000e-004	7.8600e-003	0.0000	19.3258	19.3258	3.7000e-004	4.5000e-004	19.4691
<b>Total</b>	<b>6.6000e-003</b>	<b>4.0800e-003</b>	<b>0.0621</b>	<b>2.1000e-004</b>	<b>0.0292</b>	<b>1.1000e-004</b>	<b>0.0293</b>	<b>7.7500e-003</b>	<b>1.0000e-004</b>	<b>7.8600e-003</b>	<b>0.0000</b>	<b>19.3258</b>	<b>19.3258</b>	<b>3.7000e-004</b>	<b>4.5000e-004</b>	<b>19.4691</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	0.8122					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4100e-003	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
<b>Total</b>	<b>0.8186</b>	<b>0.0430</b>	<b>0.0678</b>	<b>1.1000e-004</b>		<b>1.9300e-003</b>	<b>1.9300e-003</b>		<b>1.9300e-003</b>	<b>1.9300e-003</b>	<b>0.0000</b>	<b>9.5747</b>	<b>9.5747</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>9.5878</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 Architectural Coating - 2028**

**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	6.6000e-003	4.0800e-003	0.0621	2.1000e-004	0.0292	1.1000e-004	0.0293	7.7500e-003	1.0000e-004	7.8600e-003	0.0000	19.3258	19.3258	3.7000e-004	4.5000e-004	19.4691
<b>Total</b>	<b>6.6000e-003</b>	<b>4.0800e-003</b>	<b>0.0621</b>	<b>2.1000e-004</b>	<b>0.0292</b>	<b>1.1000e-004</b>	<b>0.0293</b>	<b>7.7500e-003</b>	<b>1.0000e-004</b>	<b>7.8600e-003</b>	<b>0.0000</b>	<b>19.3258</b>	<b>19.3258</b>	<b>3.7000e-004</b>	<b>4.5000e-004</b>	<b>19.4691</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.6274	1.0298	6.8076	0.0159	1.7243	0.0126	1.7369	0.4606	0.0118	0.4723	0.0000	1,469.6819	1,469.6819	0.0801	0.0724	1,493.2670
Unmitigated	0.6274	1.0298	6.8076	0.0159	1.7243	0.0126	1.7369	0.4606	0.0118	0.4723	0.0000	1,469.6819	1,469.6819	0.0801	0.0724	1,493.2670

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,188.18	1,188.18	1,188.18	4,573,402	4,573,402
Total	1,188.18	1,188.18	1,188.18	4,573,402	4,573,402

**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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Other Non-Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606

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

Single Family Housing	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	242.1580	242.1580	0.0150	1.8200e-003	243.0762
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	242.1580	242.1580	0.0150	1.8200e-003	243.0762
Natural Gas Mitigated	0.0192	0.1642	0.0699	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	190.1969	190.1969	3.6500e-003	3.4900e-003	191.3271
Natural Gas Unmitigated	0.0192	0.1642	0.0699	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	190.1969	190.1969	3.6500e-003	3.4900e-003	191.3271

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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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	3.56415e+006	0.0192	0.1642	0.0699	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	190.1969	190.1969	3.6500e-003	3.4900e-003	191.3271
<b>Total</b>		<b>0.0192</b>	<b>0.1642</b>	<b>0.0699</b>	<b>1.0500e-003</b>		<b>0.0133</b>	<b>0.0133</b>		<b>0.0133</b>	<b>0.0133</b>	<b>0.0000</b>	<b>190.1969</b>	<b>190.1969</b>	<b>3.6500e-003</b>	<b>3.4900e-003</b>	<b>191.3271</b>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	3.56415e+006	0.0192	0.1642	0.0699	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	190.1969	190.1969	3.6500e-003	3.4900e-003	191.3271
<b>Total</b>		<b>0.0192</b>	<b>0.1642</b>	<b>0.0699</b>	<b>1.0500e-003</b>		<b>0.0133</b>	<b>0.0133</b>		<b>0.0133</b>	<b>0.0133</b>	<b>0.0000</b>	<b>190.1969</b>	<b>190.1969</b>	<b>3.6500e-003</b>	<b>3.4900e-003</b>	<b>191.3271</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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.00355e+006	242.1580	0.0150	1.8200e-003	243.0762
<b>Total</b>		<b>242.1580</b>	<b>0.0150</b>	<b>1.8200e-003</b>	<b>243.0762</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**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.00355e+006	242.1580	0.0150	1.8200e-003	243.0762
<b>Total</b>		<b>242.1580</b>	<b>0.0150</b>	<b>1.8200e-003</b>	<b>243.0762</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	1.4002	0.0476	2.0994	2.1100e-003		0.1275	0.1275		0.1275	0.1275	13.3836	27.8417	41.2253	0.0420	9.1000e-004	42.5446
Unmitigated	1.4002	0.0476	2.0994	2.1100e-003		0.1275	0.1275		0.1275	0.1275	13.3836	27.8417	41.2253	0.0420	9.1000e-004	42.5446

**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	0.0812					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8672					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.4127	0.0327	0.8010	2.0400e-003		0.1203	0.1203		0.1203	0.1203	13.3836	25.7187	39.1023	0.0399	9.1000e-004	40.3708
Landscaping	0.0390	0.0150	1.2984	7.0000e-005		7.2000e-003	7.2000e-003		7.2000e-003	7.2000e-003	0.0000	2.1230	2.1230	2.0300e-003	0.0000	2.1738
<b>Total</b>	<b>1.4002</b>	<b>0.0476</b>	<b>2.0994</b>	<b>2.1100e-003</b>		<b>0.1275</b>	<b>0.1275</b>		<b>0.1275</b>	<b>0.1275</b>	<b>13.3836</b>	<b>27.8417</b>	<b>41.2253</b>	<b>0.0419</b>	<b>9.1000e-004</b>	<b>42.5446</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	0.0812					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8672					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.4127	0.0327	0.8010	2.0400e-003		0.1203	0.1203		0.1203	0.1203	13.3836	25.7187	39.1023	0.0399	9.1000e-004	40.3708
Landscaping	0.0390	0.0150	1.2984	7.0000e-005		7.2000e-003	7.2000e-003		7.2000e-003	7.2000e-003	0.0000	2.1230	2.1230	2.0300e-003	0.0000	2.1738
<b>Total</b>	<b>1.4002</b>	<b>0.0476</b>	<b>2.0994</b>	<b>2.1100e-003</b>		<b>0.1275</b>	<b>0.1275</b>		<b>0.1275</b>	<b>0.1275</b>	<b>13.3836</b>	<b>27.8417</b>	<b>41.2253</b>	<b>0.0419</b>	<b>9.1000e-004</b>	<b>42.5446</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	42.2732	0.2700	6.6100e-003	50.9935
Unmitigated	42.2732	0.2700	6.6100e-003	50.9935

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	8.20941 / 5.1755	42.2732	0.2700	6.6100e-003	50.9935
<b>Total</b>		<b>42.2732</b>	<b>0.2700</b>	<b>6.6100e-003</b>	<b>50.9935</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			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	8.20941 / 5.1755	42.2732	0.2700	6.6100e-003	50.9935
<b>Total</b>		<b>42.2732</b>	<b>0.2700</b>	<b>6.6100e-003</b>	<b>50.9935</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	29.9615	1.7707	0.0000	74.2283
Unmitigated	29.9615	1.7707	0.0000	74.2283

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	147.6	29.9615	1.7707	0.0000	74.2283
<b>Total</b>		<b>29.9615</b>	<b>1.7707</b>	<b>0.0000</b>	<b>74.2283</b>

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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**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	147.6	29.9615	1.7707	0.0000	74.2283
<b>Total</b>		<b>29.9615</b>	<b>1.7707</b>	<b>0.0000</b>	<b>74.2283</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

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

**11.0 Vegetation**

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