

**APPENDIX A**  
**AIR QUALITY AND GHG MODELING RESULTS**

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Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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

**Norwood Townhomes  
Sacramento Metropolitan AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	48.00	Dwelling Unit	3.70	48,000.00	128

**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 - Lot acreage based on site plan for the proposed project.

Construction Phase - Grading phase adjusted based on AQ questionnaire. Architectural coating assumed to start two weeks after the initiation of building construction, and last for the same duration.

Grading -

Mobile Land Use Mitigation - Information based on applicant provided AQ questionnaire.

Area Mitigation - Information based on applicant provided AQ questionnaire.

Water Mitigation - Outdoor water conservation strategy applied to reflect compliance with MWEL0.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	8.00	5.00
tblConstructionPhase	NumDays	18.00	230.00
tblConstructionPhase	PhaseEndDate	6/19/2023	6/14/2023

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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tblConstructionPhase	PhaseEndDate	5/30/2024	7/10/2023
tblConstructionPhase	PhaseEndDate	5/6/2024	5/27/2024
tblConstructionPhase	PhaseEndDate	6/25/2024	6/10/2024
tblConstructionPhase	PhaseStartDate	5/7/2024	6/15/2023
tblConstructionPhase	PhaseStartDate	6/20/2023	7/11/2023
tblConstructionPhase	PhaseStartDate	5/31/2024	7/25/2023
tblLandUse	LotAcreage	3.00	3.70

**2.0 Emissions Summary**

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Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

**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					
2023	0.2850	1.1790	1.3731	2.4200e-003	0.0895	0.0566	0.1461	0.0399	0.0534	0.0932	0.0000	210.3233	210.3233	0.0452	1.3200e-003	211.8461
2024	0.2464	0.7994	1.0147	1.7900e-003	0.0182	0.0362	0.0544	4.8600e-003	0.0343	0.0391	0.0000	155.4993	155.4993	0.0304	1.0600e-003	156.5759
<b>Maximum</b>	<b>0.2850</b>	<b>1.1790</b>	<b>1.3731</b>	<b>2.4200e-003</b>	<b>0.0895</b>	<b>0.0566</b>	<b>0.1461</b>	<b>0.0399</b>	<b>0.0534</b>	<b>0.0932</b>	<b>0.0000</b>	<b>210.3233</b>	<b>210.3233</b>	<b>0.0452</b>	<b>1.3200e-003</b>	<b>211.8461</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2850	1.1790	1.3731	2.4200e-003	0.0895	0.0566	0.1461	0.0399	0.0534	0.0932	0.0000	210.3230	210.3230	0.0452	1.3200e-003	211.8458
2024	0.2464	0.7994	1.0147	1.7900e-003	0.0182	0.0362	0.0544	4.8600e-003	0.0343	0.0391	0.0000	155.4992	155.4992	0.0304	1.0600e-003	156.5758
<b>Maximum</b>	<b>0.2850</b>	<b>1.1790</b>	<b>1.3731</b>	<b>2.4200e-003</b>	<b>0.0895</b>	<b>0.0566</b>	<b>0.1461</b>	<b>0.0399</b>	<b>0.0534</b>	<b>0.0932</b>	<b>0.0000</b>	<b>210.3230</b>	<b>210.3230</b>	<b>0.0452</b>	<b>1.3200e-003</b>	<b>211.8458</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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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	6-1-2023	8-31-2023	0.5763	0.5763
2	9-1-2023	11-30-2023	0.6670	0.6670
3	12-1-2023	2-29-2024	0.6423	0.6423
4	3-1-2024	5-31-2024	0.6142	0.6142
5	6-1-2024	8-31-2024	0.0144	0.0144
		Highest	0.6670	0.6670

**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	0.2324	5.7000e-003	0.4948	3.0000e-005		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	0.8086	0.8086	7.8000e-004	0.0000	0.8280
Energy	4.8800e-003	0.0417	0.0178	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003	0.0000	86.3459	86.3459	4.4300e-003	1.3100e-003	86.8473
Mobile	0.1705	0.2219	1.5634	3.2300e-003	0.3328	2.5800e-003	0.3353	0.0890	2.4100e-003	0.0914	0.0000	304.0004	304.0004	0.0208	0.0151	309.0157
Waste						0.0000	0.0000		0.0000	0.0000	4.4820	0.0000	4.4820	0.2649	0.0000	11.1041
Water						0.0000	0.0000		0.0000	0.0000	1.1065	3.6508	4.7572	4.1400e-003	2.4500e-003	5.5901
<b>Total</b>	<b>0.4078</b>	<b>0.2693</b>	<b>2.0759</b>	<b>3.5300e-003</b>	<b>0.3328</b>	<b>8.6900e-003</b>	<b>0.3415</b>	<b>0.0890</b>	<b>8.5200e-003</b>	<b>0.0975</b>	<b>5.5885</b>	<b>394.8057</b>	<b>400.3942</b>	<b>0.2951</b>	<b>0.0188</b>	<b>413.3851</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

**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	0.2324	5.7000e-003	0.4948	3.0000e-005		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	0.8086	0.8086	7.8000e-004	0.0000	0.8280
Energy	4.8800e-003	0.0417	0.0178	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003	0.0000	86.3459	86.3459	4.4300e-003	1.3100e-003	86.8473
Mobile	0.1641	0.2068	1.4582	2.9600e-003	0.3036	2.3800e-003	0.3060	0.0812	2.2200e-003	0.0834	0.0000	278.1622	278.1622	0.0197	0.0141	282.8480
Waste						0.0000	0.0000		0.0000	0.0000	4.4820	0.0000	4.4820	0.2649	0.0000	11.1041
Water						0.0000	0.0000		0.0000	0.0000	1.1065	3.4267	4.5331	4.1200e-003	2.4400e-003	5.3647
<b>Total</b>	<b>0.4014</b>	<b>0.2542</b>	<b>1.9707</b>	<b>3.2600e-003</b>	<b>0.3036</b>	<b>8.4900e-003</b>	<b>0.3121</b>	<b>0.0812</b>	<b>8.3300e-003</b>	<b>0.0895</b>	<b>5.5885</b>	<b>368.7433</b>	<b>374.3318</b>	<b>0.2939</b>	<b>0.0178</b>	<b>386.9921</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>1.58</b>	<b>5.61</b>	<b>5.07</b>	<b>7.65</b>	<b>8.76</b>	<b>2.30</b>	<b>8.60</b>	<b>8.77</b>	<b>2.23</b>	<b>8.20</b>	<b>0.00</b>	<b>6.60</b>	<b>6.51</b>	<b>0.40</b>	<b>5.36</b>	<b>6.38</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	6/1/2023	6/7/2023	5	5	
2	Grading	Grading	6/8/2023	6/14/2023	5	5	
3	Building Construction	Building Construction	7/11/2023	5/27/2024	5	230	

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4	Paving	Paving	6/15/2023	7/10/2023	5	18
5	Architectural Coating	Architectural Coating	7/25/2023	6/10/2024	5	230

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 5**

**Acres of Paving: 0**

**Residential Indoor: 97,200; Residential Outdoor: 32,400; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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**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
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	35.00	5.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**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					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0688	0.0456	1.0000e-004		3.1700e-003	3.1700e-003		2.9100e-003	2.9100e-003	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
<b>Total</b>	<b>6.6500e-003</b>	<b>0.0688</b>	<b>0.0456</b>	<b>1.0000e-004</b>	<b>0.0491</b>	<b>3.1700e-003</b>	<b>0.0523</b>	<b>0.0253</b>	<b>2.9100e-003</b>	<b>0.0282</b>	<b>0.0000</b>	<b>8.3627</b>	<b>8.3627</b>	<b>2.7000e-003</b>	<b>0.0000</b>	<b>8.4303</b>



Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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

**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	1.3000e-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					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0688	0.0456	1.0000e-004		3.1700e-003	3.1700e-003		2.9100e-003	2.9100e-003	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
<b>Total</b>	<b>6.6500e-003</b>	<b>0.0688</b>	<b>0.0456</b>	<b>1.0000e-004</b>	<b>0.0491</b>	<b>3.1700e-003</b>	<b>0.0523</b>	<b>0.0253</b>	<b>2.9100e-003</b>	<b>0.0282</b>	<b>0.0000</b>	<b>8.3627</b>	<b>8.3627</b>	<b>2.7000e-003</b>	<b>0.0000</b>	<b>8.4303</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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

**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	1.3000e-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>

**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					0.0177	0.0000	0.0177	8.5600e-003	0.0000	8.5600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2800e-003	0.0448	0.0369	7.0000e-005		1.9400e-003	1.9400e-003		1.7800e-003	1.7800e-003	0.0000	6.5152	6.5152	2.1100e-003	0.0000	6.5678
<b>Total</b>	<b>4.2800e-003</b>	<b>0.0448</b>	<b>0.0369</b>	<b>7.0000e-005</b>	<b>0.0177</b>	<b>1.9400e-003</b>	<b>0.0197</b>	<b>8.5600e-003</b>	<b>1.7800e-003</b>	<b>0.0103</b>	<b>0.0000</b>	<b>6.5152</b>	<b>6.5152</b>	<b>2.1100e-003</b>	<b>0.0000</b>	<b>6.5678</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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**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	1.1000e-004	7.0000e-005	8.7000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2209	0.2209	1.0000e-005	1.0000e-005	0.2230
<b>Total</b>	<b>1.1000e-004</b>	<b>7.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2209</b>	<b>0.2209</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2230</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					0.0177	0.0000	0.0177	8.5600e-003	0.0000	8.5600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2800e-003	0.0448	0.0369	7.0000e-005		1.9400e-003	1.9400e-003		1.7800e-003	1.7800e-003	0.0000	6.5152	6.5152	2.1100e-003	0.0000	6.5678
<b>Total</b>	<b>4.2800e-003</b>	<b>0.0448</b>	<b>0.0369</b>	<b>7.0000e-005</b>	<b>0.0177</b>	<b>1.9400e-003</b>	<b>0.0197</b>	<b>8.5600e-003</b>	<b>1.7800e-003</b>	<b>0.0103</b>	<b>0.0000</b>	<b>6.5152</b>	<b>6.5152</b>	<b>2.1100e-003</b>	<b>0.0000</b>	<b>6.5678</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	1.1000e-004	7.0000e-005	8.7000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2209	0.2209	1.0000e-005	1.0000e-005	0.2230
<b>Total</b>	<b>1.1000e-004</b>	<b>7.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2209</b>	<b>0.2209</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2230</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	0.0975	0.8919	1.0071	1.6700e-003		0.0434	0.0434		0.0408	0.0408	0.0000	143.7189	143.7189	0.0342	0.0000	144.5737
<b>Total</b>	<b>0.0975</b>	<b>0.8919</b>	<b>1.0071</b>	<b>1.6700e-003</b>		<b>0.0434</b>	<b>0.0434</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>143.7189</b>	<b>143.7189</b>	<b>0.0342</b>	<b>0.0000</b>	<b>144.5737</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	4.0000e-004	0.0151	4.5600e-003	6.0000e-005	1.8100e-003	8.0000e-005	1.9000e-003	5.2000e-004	8.0000e-005	6.0000e-004	0.0000	5.7496	5.7496	1.4000e-004	8.4000e-004	6.0045
Worker	6.2200e-003	3.8500e-003	0.0506	1.4000e-004	0.0159	9.0000e-005	0.0160	4.2400e-003	8.0000e-005	4.3200e-003	0.0000	12.7852	12.7852	4.0000e-004	3.7000e-004	12.9042
<b>Total</b>	<b>6.6200e-003</b>	<b>0.0190</b>	<b>0.0552</b>	<b>2.0000e-004</b>	<b>0.0178</b>	<b>1.7000e-004</b>	<b>0.0179</b>	<b>4.7600e-003</b>	<b>1.6000e-004</b>	<b>4.9200e-003</b>	<b>0.0000</b>	<b>18.5348</b>	<b>18.5348</b>	<b>5.4000e-004</b>	<b>1.2100e-003</b>	<b>18.9087</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	0.0975	0.8919	1.0071	1.6700e-003		0.0434	0.0434		0.0408	0.0408	0.0000	143.7188	143.7188	0.0342	0.0000	144.5735
<b>Total</b>	<b>0.0975</b>	<b>0.8919</b>	<b>1.0071</b>	<b>1.6700e-003</b>		<b>0.0434</b>	<b>0.0434</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>143.7188</b>	<b>143.7188</b>	<b>0.0342</b>	<b>0.0000</b>	<b>144.5735</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	4.0000e-004	0.0151	4.5600e-003	6.0000e-005	1.8100e-003	8.0000e-005	1.9000e-003	5.2000e-004	8.0000e-005	6.0000e-004	0.0000	5.7496	5.7496	1.4000e-004	8.4000e-004	6.0045
Worker	6.2200e-003	3.8500e-003	0.0506	1.4000e-004	0.0159	9.0000e-005	0.0160	4.2400e-003	8.0000e-005	4.3200e-003	0.0000	12.7852	12.7852	4.0000e-004	3.7000e-004	12.9042
<b>Total</b>	<b>6.6200e-003</b>	<b>0.0190</b>	<b>0.0552</b>	<b>2.0000e-004</b>	<b>0.0178</b>	<b>1.7000e-004</b>	<b>0.0179</b>	<b>4.7600e-003</b>	<b>1.6000e-004</b>	<b>4.9200e-003</b>	<b>0.0000</b>	<b>18.5348</b>	<b>18.5348</b>	<b>5.4000e-004</b>	<b>1.2100e-003</b>	<b>18.9087</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	0.0780	0.7125	0.8568	1.4300e-003		0.0325	0.0325		0.0306	0.0306	0.0000	122.8800	122.8800	0.0291	0.0000	123.6065
<b>Total</b>	<b>0.0780</b>	<b>0.7125</b>	<b>0.8568</b>	<b>1.4300e-003</b>		<b>0.0325</b>	<b>0.0325</b>		<b>0.0306</b>	<b>0.0306</b>	<b>0.0000</b>	<b>122.8800</b>	<b>122.8800</b>	<b>0.0291</b>	<b>0.0000</b>	<b>123.6065</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	3.3000e-004	0.0127	3.7700e-003	5.0000e-005	1.5500e-003	7.0000e-005	1.6200e-003	4.5000e-004	6.0000e-005	5.1000e-004	0.0000	4.8216	4.8216	1.2000e-004	7.1000e-004	5.0358
Worker	4.9700e-003	2.9300e-003	0.0403	1.1000e-004	0.0136	7.0000e-005	0.0137	3.6200e-003	6.0000e-005	3.6900e-003	0.0000	10.6565	10.6565	3.1000e-004	2.9000e-004	10.7509
<b>Total</b>	<b>5.3000e-003</b>	<b>0.0156</b>	<b>0.0440</b>	<b>1.6000e-004</b>	<b>0.0152</b>	<b>1.4000e-004</b>	<b>0.0153</b>	<b>4.0700e-003</b>	<b>1.2000e-004</b>	<b>4.2000e-003</b>	<b>0.0000</b>	<b>15.4781</b>	<b>15.4781</b>	<b>4.3000e-004</b>	<b>1.0000e-003</b>	<b>15.7867</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	0.0780	0.7125	0.8568	1.4300e-003		0.0325	0.0325		0.0306	0.0306	0.0000	122.8799	122.8799	0.0291	0.0000	123.6063
<b>Total</b>	<b>0.0780</b>	<b>0.7125</b>	<b>0.8568</b>	<b>1.4300e-003</b>		<b>0.0325</b>	<b>0.0325</b>		<b>0.0306</b>	<b>0.0306</b>	<b>0.0000</b>	<b>122.8799</b>	<b>122.8799</b>	<b>0.0291</b>	<b>0.0000</b>	<b>123.6063</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	3.3000e-004	0.0127	3.7700e-003	5.0000e-005	1.5500e-003	7.0000e-005	1.6200e-003	4.5000e-004	6.0000e-005	5.1000e-004	0.0000	4.8216	4.8216	1.2000e-004	7.1000e-004	5.0358
Worker	4.9700e-003	2.9300e-003	0.0403	1.1000e-004	0.0136	7.0000e-005	0.0137	3.6200e-003	6.0000e-005	3.6900e-003	0.0000	10.6565	10.6565	3.1000e-004	2.9000e-004	10.7509
<b>Total</b>	<b>5.3000e-003</b>	<b>0.0156</b>	<b>0.0440</b>	<b>1.6000e-004</b>	<b>0.0152</b>	<b>1.4000e-004</b>	<b>0.0153</b>	<b>4.0700e-003</b>	<b>1.2000e-004</b>	<b>4.2000e-003</b>	<b>0.0000</b>	<b>15.4781</b>	<b>15.4781</b>	<b>4.3000e-004</b>	<b>1.0000e-003</b>	<b>15.7867</b>

**3.5 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	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
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>8.2600e-003</b>	<b>0.0791</b>	<b>0.1097</b>	<b>1.7000e-004</b>		<b>3.9200e-003</b>	<b>3.9200e-003</b>		<b>3.6200e-003</b>	<b>3.6200e-003</b>	<b>0.0000</b>	<b>14.7407</b>	<b>14.7407</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8565</b>



Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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

**3.5 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	5.2000e-004	3.2000e-004	4.2000e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0605	1.0605	3.0000e-005	3.0000e-005	1.0704
<b>Total</b>	<b>5.2000e-004</b>	<b>3.2000e-004</b>	<b>4.2000e-003</b>	<b>1.0000e-005</b>	<b>1.3200e-003</b>	<b>1.0000e-005</b>	<b>1.3300e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.0605</b>	<b>1.0605</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0704</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	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
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>8.2600e-003</b>	<b>0.0791</b>	<b>0.1097</b>	<b>1.7000e-004</b>		<b>3.9200e-003</b>	<b>3.9200e-003</b>		<b>3.6200e-003</b>	<b>3.6200e-003</b>	<b>0.0000</b>	<b>14.7407</b>	<b>14.7407</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8565</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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

**3.5 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	5.2000e-004	3.2000e-004	4.2000e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0605	1.0605	3.0000e-005	3.0000e-005	1.0704
<b>Total</b>	<b>5.2000e-004</b>	<b>3.2000e-004</b>	<b>4.2000e-003</b>	<b>1.0000e-005</b>	<b>1.3200e-003</b>	<b>1.0000e-005</b>	<b>1.3300e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.0605</b>	<b>1.0605</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0704</b>

**3.6 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	0.1489					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0109	0.0743	0.1032	1.7000e-004		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	14.5536	14.5536	8.7000e-004	0.0000	14.5753
<b>Total</b>	<b>0.1598</b>	<b>0.0743</b>	<b>0.1032</b>	<b>1.7000e-004</b>		<b>4.0400e-003</b>	<b>4.0400e-003</b>		<b>4.0400e-003</b>	<b>4.0400e-003</b>	<b>0.0000</b>	<b>14.5536</b>	<b>14.5536</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>14.5753</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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

**3.6 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	1.1400e-003	7.1000e-004	9.3000e-003	3.0000e-005	2.9300e-003	2.0000e-005	2.9500e-003	7.8000e-004	1.0000e-005	7.9000e-004	0.0000	2.3508	2.3508	7.0000e-005	7.0000e-005	2.3727
<b>Total</b>	<b>1.1400e-003</b>	<b>7.1000e-004</b>	<b>9.3000e-003</b>	<b>3.0000e-005</b>	<b>2.9300e-003</b>	<b>2.0000e-005</b>	<b>2.9500e-003</b>	<b>7.8000e-004</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>2.3508</b>	<b>2.3508</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.3727</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	0.1489					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0109	0.0743	0.1032	1.7000e-004		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	14.5535	14.5535	8.7000e-004	0.0000	14.5753
<b>Total</b>	<b>0.1598</b>	<b>0.0743</b>	<b>0.1032</b>	<b>1.7000e-004</b>		<b>4.0400e-003</b>	<b>4.0400e-003</b>		<b>4.0400e-003</b>	<b>4.0400e-003</b>	<b>0.0000</b>	<b>14.5535</b>	<b>14.5535</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>14.5753</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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

**3.6 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	1.1400e-003	7.1000e-004	9.3000e-003	3.0000e-005	2.9300e-003	2.0000e-005	2.9500e-003	7.8000e-004	1.0000e-005	7.9000e-004	0.0000	2.3508	2.3508	7.0000e-005	7.0000e-005	2.3727
<b>Total</b>	<b>1.1400e-003</b>	<b>7.1000e-004</b>	<b>9.3000e-003</b>	<b>3.0000e-005</b>	<b>2.9300e-003</b>	<b>2.0000e-005</b>	<b>2.9500e-003</b>	<b>7.8000e-004</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>2.3508</b>	<b>2.3508</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.3727</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1515					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0105	0.0707	0.1050	1.7000e-004		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003	0.0000	14.8089	14.8089	8.3000e-004	0.0000	14.8297
<b>Total</b>	<b>0.1620</b>	<b>0.0707</b>	<b>0.1050</b>	<b>1.7000e-004</b>		<b>3.5300e-003</b>	<b>3.5300e-003</b>		<b>3.5300e-003</b>	<b>3.5300e-003</b>	<b>0.0000</b>	<b>14.8089</b>	<b>14.8089</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>14.8297</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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

**3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	1.0900e-003	6.4000e-004	8.8100e-003	2.0000e-005	2.9800e-003	2.0000e-005	3.0000e-003	7.9000e-004	1.0000e-005	8.1000e-004	0.0000	2.3324	2.3324	7.0000e-005	6.0000e-005	2.3530
<b>Total</b>	<b>1.0900e-003</b>	<b>6.4000e-004</b>	<b>8.8100e-003</b>	<b>2.0000e-005</b>	<b>2.9800e-003</b>	<b>2.0000e-005</b>	<b>3.0000e-003</b>	<b>7.9000e-004</b>	<b>1.0000e-005</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>2.3324</b>	<b>2.3324</b>	<b>7.0000e-005</b>	<b>6.0000e-005</b>	<b>2.3530</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	0.1515					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0105	0.0707	0.1050	1.7000e-004		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003	0.0000	14.8089	14.8089	8.3000e-004	0.0000	14.8297
<b>Total</b>	<b>0.1620</b>	<b>0.0707</b>	<b>0.1050</b>	<b>1.7000e-004</b>		<b>3.5300e-003</b>	<b>3.5300e-003</b>		<b>3.5300e-003</b>	<b>3.5300e-003</b>	<b>0.0000</b>	<b>14.8089</b>	<b>14.8089</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>14.8297</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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

**3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	1.0900e-003	6.4000e-004	8.8100e-003	2.0000e-005	2.9800e-003	2.0000e-005	3.0000e-003	7.9000e-004	1.0000e-005	8.1000e-004	0.0000	2.3324	2.3324	7.0000e-005	6.0000e-005	2.3530
<b>Total</b>	<b>1.0900e-003</b>	<b>6.4000e-004</b>	<b>8.8100e-003</b>	<b>2.0000e-005</b>	<b>2.9800e-003</b>	<b>2.0000e-005</b>	<b>3.0000e-003</b>	<b>7.9000e-004</b>	<b>1.0000e-005</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>2.3324</b>	<b>2.3324</b>	<b>7.0000e-005</b>	<b>6.0000e-005</b>	<b>2.3530</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Transit Accessibility

Improve Pedestrian Network

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

**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	0.1641	0.2068	1.4582	2.9600e-003	0.3036	2.3800e-003	0.3060	0.0812	2.2200e-003	0.0834	0.0000	278.1622	278.1622	0.0197	0.0141	282.8480
Unmitigated	0.1705	0.2219	1.5634	3.2300e-003	0.3328	2.5800e-003	0.3353	0.0890	2.4100e-003	0.0914	0.0000	304.0004	304.0004	0.0208	0.0151	309.0157

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	351.36	390.72	301.44	897,757	819,108
Total	351.36	390.72	301.44	897,757	819,108

**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
Condo/Townhouse	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	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

**5.0 Energy Detail**

Historical Energy Use: N

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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

**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	38.0060	38.0060	3.5000e-003	4.2000e-004	38.2201
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	38.0060	38.0060	3.5000e-003	4.2000e-004	38.2201
NaturalGas Mitigated	4.8800e-003	0.0417	0.0178	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003	0.0000	48.3400	48.3400	9.3000e-004	8.9000e-004	48.6272
NaturalGas Unmitigated	4.8800e-003	0.0417	0.0178	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003	0.0000	48.3400	48.3400	9.3000e-004	8.9000e-004	48.6272

**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					
Condo/Townhouse	905856	4.8800e-003	0.0417	0.0178	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003	0.0000	48.3400	48.3400	9.3000e-004	8.9000e-004	48.6272
<b>Total</b>		<b>4.8800e-003</b>	<b>0.0417</b>	<b>0.0178</b>	<b>2.7000e-004</b>		<b>3.3700e-003</b>	<b>3.3700e-003</b>		<b>3.3700e-003</b>	<b>3.3700e-003</b>	<b>0.0000</b>	<b>48.3400</b>	<b>48.3400</b>	<b>9.3000e-004</b>	<b>8.9000e-004</b>	<b>48.6272</b>



Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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

**5.2 Energy by Land Use - Natural Gas**

Mitigated

	Natural Gas 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					
Condo/Townhouse	905856	4.8800e-003	0.0417	0.0178	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003	0.0000	48.3400	48.3400	9.3000e-004	8.9000e-004	48.6272
<b>Total</b>		<b>4.8800e-003</b>	<b>0.0417</b>	<b>0.0178</b>	<b>2.7000e-004</b>		<b>3.3700e-003</b>	<b>3.3700e-003</b>		<b>3.3700e-003</b>	<b>3.3700e-003</b>	<b>0.0000</b>	<b>48.3400</b>	<b>48.3400</b>	<b>9.3000e-004</b>	<b>8.9000e-004</b>	<b>48.6272</b>

**5.3 Energy by Land Use - Electricity**

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	234060	38.0060	3.5000e-003	4.2000e-004	38.2201
<b>Total</b>		<b>38.0060</b>	<b>3.5000e-003</b>	<b>4.2000e-004</b>	<b>38.2201</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

**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**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	234060	38.0060	3.5000e-003	4.2000e-004	38.2201
<b>Total</b>		<b>38.0060</b>	<b>3.5000e-003</b>	<b>4.2000e-004</b>	<b>38.2201</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

	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	0.2324	5.7000e-003	0.4948	3.0000e-005		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	0.8086	0.8086	7.8000e-004	0.0000	0.8280
Unmitigated	0.2324	5.7000e-003	0.4948	3.0000e-005		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	0.8086	0.8086	7.8000e-004	0.0000	0.8280

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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

**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	0.0300					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1875					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0149	5.7000e-003	0.4948	3.0000e-005		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	0.8086	0.8086	7.8000e-004	0.0000	0.8280
<b>Total</b>	<b>0.2324</b>	<b>5.7000e-003</b>	<b>0.4948</b>	<b>3.0000e-005</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>	<b>0.0000</b>	<b>0.8086</b>	<b>0.8086</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>0.8280</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

**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	0.0300					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1875					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0149	5.7000e-003	0.4948	3.0000e-005		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	0.8086	0.8086	7.8000e-004	0.0000	0.8280
<b>Total</b>	<b>0.2324</b>	<b>5.7000e-003</b>	<b>0.4948</b>	<b>3.0000e-005</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>	<b>0.0000</b>	<b>0.8086</b>	<b>0.8086</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>0.8280</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.5331	4.1200e-003	2.4400e-003	5.3647
Unmitigated	4.7572	4.1400e-003	2.4500e-003	5.5901

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	3.12739 / 1.97162	4.7572	4.1400e-003	2.4500e-003	5.5901
<b>Total</b>		<b>4.7572</b>	<b>4.1400e-003</b>	<b>2.4500e-003</b>	<b>5.5901</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

**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			
Condo/Townhouse	3.12739 / 1.57729	4.5331	4.1200e-003	2.4400e-003	5.3647
<b>Total</b>		<b>4.5331</b>	<b>4.1200e-003</b>	<b>2.4400e-003</b>	<b>5.3647</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.4820	0.2649	0.0000	11.1041
Unmitigated	4.4820	0.2649	0.0000	11.1041

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	22.08	4.4820	0.2649	0.0000	11.1041
<b>Total</b>		<b>4.4820</b>	<b>0.2649</b>	<b>0.0000</b>	<b>11.1041</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	22.08	4.4820	0.2649	0.0000	11.1041
<b>Total</b>		<b>4.4820</b>	<b>0.2649</b>	<b>0.0000</b>	<b>11.1041</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

**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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Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**Norwood Townhomes**

**Sacramento Metropolitan AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	48.00	Dwelling Unit	3.70	48,000.00	128

**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 - Lot acreage based on site plan for the proposed project.

Construction Phase - Grading phase adjusted based on AQ questionnaire. Architectural coating assumed to start two weeks after the initiation of building construction, and last for the same duration.

Grading -

Mobile Land Use Mitigation - Information based on applicant provided AQ questionnaire.

Area Mitigation - Information based on applicant provided AQ questionnaire.

Water Mitigation - Outdoor water conservation strategy applied to reflect compliance with MWEL0.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	8.00	5.00
tblConstructionPhase	NumDays	18.00	230.00
tblConstructionPhase	PhaseEndDate	6/19/2023	6/14/2023

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

tblConstructionPhase	PhaseEndDate	5/30/2024	7/10/2023
tblConstructionPhase	PhaseEndDate	5/6/2024	5/27/2024
tblConstructionPhase	PhaseEndDate	6/25/2024	6/10/2024
tblConstructionPhase	PhaseStartDate	5/7/2024	6/15/2023
tblConstructionPhase	PhaseStartDate	6/20/2023	7/11/2023
tblConstructionPhase	PhaseStartDate	5/31/2024	7/25/2023
tblLandUse	LotAcreage	3.00	3.70

**2.0 Emissions Summary**

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Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**2.1 Overall Construction (Maximum Daily Emission)**

**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	lb/day										lb/day					
2023	4.5244	27.5533	19.2718	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.4139	3,815.4139	1.1961	0.0223	3,846.2531
2024	4.4026	14.9501	19.1093	0.0337	0.3496	0.6771	1.0267	0.0934	0.6405	0.7339	0.0000	3,228.7690	3,228.7690	0.6301	0.0216	3,250.9447
<b>Maximum</b>	<b>4.5244</b>	<b>27.5533</b>	<b>19.2718</b>	<b>0.0393</b>	<b>19.7939</b>	<b>1.2667</b>	<b>21.0607</b>	<b>10.1388</b>	<b>1.1654</b>	<b>11.3042</b>	<b>0.0000</b>	<b>3,815.4139</b>	<b>3,815.4139</b>	<b>1.1961</b>	<b>0.0223</b>	<b>3,846.2531</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	lb/day										lb/day					
2023	4.5244	27.5533	19.2718	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.4139	3,815.4139	1.1961	0.0223	3,846.2531
2024	4.4026	14.9501	19.1093	0.0337	0.3496	0.6771	1.0267	0.0934	0.6405	0.7339	0.0000	3,228.7690	3,228.7690	0.6301	0.0216	3,250.9447
<b>Maximum</b>	<b>4.5244</b>	<b>27.5533</b>	<b>19.2718</b>	<b>0.0393</b>	<b>19.7939</b>	<b>1.2667</b>	<b>21.0607</b>	<b>10.1388</b>	<b>1.1654</b>	<b>11.3042</b>	<b>0.0000</b>	<b>3,815.4139</b>	<b>3,815.4139</b>	<b>1.1961</b>	<b>0.0223</b>	<b>3,846.2531</b>



Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3108	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219	0.0000	7.1305	7.1305	6.8400e-003	0.0000	7.3016
Energy	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
Mobile	1.2859	1.2538	10.3622	0.0213	2.1143	0.0159	2.1301	0.5637	0.0148	0.5785		2,209.1954	2,209.1954	0.1342	0.0979	2,241.7300
<b>Total</b>	<b>2.6234</b>	<b>1.5281</b>	<b>14.4180</b>	<b>0.0230</b>	<b>2.1143</b>	<b>0.0563</b>	<b>2.1706</b>	<b>0.5637</b>	<b>0.0552</b>	<b>0.6189</b>	<b>0.0000</b>	<b>2,508.3022</b>	<b>2,508.3022</b>	<b>0.1467</b>	<b>0.1033</b>	<b>2,542.7429</b>

**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	lb/day										lb/day					
Area	1.3108	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219	0.0000	7.1305	7.1305	6.8400e-003	0.0000	7.3016
Energy	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
Mobile	1.2464	1.1693	9.6175	0.0195	1.9291	0.0146	1.9437	0.5143	0.0136	0.5279		2,020.9659	2,020.9659	0.1262	0.0914	2,051.3501
<b>Total</b>	<b>2.5840</b>	<b>1.4436</b>	<b>13.6732</b>	<b>0.0212</b>	<b>1.9291</b>	<b>0.0550</b>	<b>1.9841</b>	<b>0.5143</b>	<b>0.0541</b>	<b>0.5684</b>	<b>0.0000</b>	<b>2,320.0727</b>	<b>2,320.0727</b>	<b>0.1387</b>	<b>0.0967</b>	<b>2,352.3630</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.50	5.53	5.17	7.92	8.76	2.22	8.59	8.76	2.12	8.17	0.00	7.50	7.50	5.45	6.34	7.49

**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	6/1/2023	6/7/2023	5	5	
2	Grading	Grading	6/8/2023	6/14/2023	5	5	
3	Building Construction	Building Construction	7/11/2023	5/27/2024	5	230	
4	Paving	Paving	6/15/2023	7/10/2023	5	18	
5	Architectural Coating	Architectural Coating	7/25/2023	6/10/2024	5	230	

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 5**

**Acres of Paving: 0**

**Residential Indoor: 97,200; Residential Outdoor: 32,400; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	35.00	5.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**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	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2660</b>	<b>20.9230</b>	<b>10.1025</b>	<b>1.1647</b>	<b>11.2672</b>		<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
<b>Total</b>	<b>0.0607</b>	<b>0.0291</b>	<b>0.4906</b>	<b>1.2500e-003</b>	<b>0.1369</b>	<b>7.1000e-004</b>	<b>0.1376</b>	<b>0.0363</b>	<b>6.5000e-004</b>	<b>0.0370</b>		<b>128.1058</b>	<b>128.1058</b>	<b>3.5200e-003</b>	<b>3.1500e-003</b>	<b>129.1312</b>



Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**3.2 Site Preparation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2660</b>	<b>20.9230</b>	<b>10.1025</b>	<b>1.1647</b>	<b>11.2672</b>	<b>0.0000</b>	<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
<b>Total</b>	<b>0.0607</b>	<b>0.0291</b>	<b>0.4906</b>	<b>1.2500e-003</b>	<b>0.1369</b>	<b>7.1000e-004</b>	<b>0.1376</b>	<b>0.0363</b>	<b>6.5000e-004</b>	<b>0.0370</b>		<b>128.1058</b>	<b>128.1058</b>	<b>3.5200e-003</b>	<b>3.1500e-003</b>	<b>129.1312</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**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	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
<b>Total</b>	<b>1.7109</b>	<b>17.9359</b>	<b>14.7507</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.7749</b>	<b>7.8575</b>	<b>3.4247</b>	<b>0.7129</b>	<b>4.1377</b>		<b>2,872.6910</b>	<b>2,872.6910</b>	<b>0.9291</b>		<b>2,895.9182</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0505	0.0243	0.4088	1.0400e-003	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		106.7548	106.7548	2.9300e-003	2.6200e-003	107.6093
<b>Total</b>	<b>0.0505</b>	<b>0.0243</b>	<b>0.4088</b>	<b>1.0400e-003</b>	<b>0.1141</b>	<b>5.9000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.4000e-004</b>	<b>0.0308</b>		<b>106.7548</b>	<b>106.7548</b>	<b>2.9300e-003</b>	<b>2.6200e-003</b>	<b>107.6093</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**3.3 Grading - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
<b>Total</b>	<b>1.7109</b>	<b>17.9359</b>	<b>14.7507</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.7749</b>	<b>7.8575</b>	<b>3.4247</b>	<b>0.7129</b>	<b>4.1377</b>	<b>0.0000</b>	<b>2,872.6910</b>	<b>2,872.6910</b>	<b>0.9291</b>		<b>2,895.9182</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0505	0.0243	0.4088	1.0400e-003	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		106.7548	106.7548	2.9300e-003	2.6200e-003	107.6093
<b>Total</b>	<b>0.0505</b>	<b>0.0243</b>	<b>0.4088</b>	<b>1.0400e-003</b>	<b>0.1141</b>	<b>5.9000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.4000e-004</b>	<b>0.0308</b>		<b>106.7548</b>	<b>106.7548</b>	<b>2.9300e-003</b>	<b>2.6200e-003</b>	<b>107.6093</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**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	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	6.6900e-003	0.2315	0.0721	9.5000e-004	0.0301	1.2900e-003	0.0314	8.6700e-003	1.2400e-003	9.9100e-003		102.1921	102.1921	2.5300e-003	0.0150	106.7193
Worker	0.1179	0.0567	0.9539	2.4300e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		249.0946	249.0946	6.8400e-003	6.1200e-003	251.0884
<b>Total</b>	<b>0.1246</b>	<b>0.2882</b>	<b>1.0259</b>	<b>3.3800e-003</b>	<b>0.2964</b>	<b>2.6600e-003</b>	<b>0.2990</b>	<b>0.0793</b>	<b>2.5000e-003</b>	<b>0.0818</b>		<b>351.2867</b>	<b>351.2867</b>	<b>9.3700e-003</b>	<b>0.0211</b>	<b>357.8077</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**3.4 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	6.6900e-003	0.2315	0.0721	9.5000e-004	0.0301	1.2900e-003	0.0314	8.6700e-003	1.2400e-003	9.9100e-003		102.1921	102.1921	2.5300e-003	0.0150	106.7193
Worker	0.1179	0.0567	0.9539	2.4300e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		249.0946	249.0946	6.8400e-003	6.1200e-003	251.0884
<b>Total</b>	<b>0.1246</b>	<b>0.2882</b>	<b>1.0259</b>	<b>3.3800e-003</b>	<b>0.2964</b>	<b>2.6600e-003</b>	<b>0.2990</b>	<b>0.0793</b>	<b>2.5000e-003</b>	<b>0.0818</b>		<b>351.2867</b>	<b>351.2867</b>	<b>9.3700e-003</b>	<b>0.0211</b>	<b>357.8077</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**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	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	6.4000e-003	0.2269	0.0698	9.3000e-004	0.0301	1.2700e-003	0.0314	8.6700e-003	1.2200e-003	9.8900e-003		100.2459	100.2459	2.4500e-003	0.0147	104.6964
Worker	0.1102	0.0505	0.8855	2.3500e-003	0.2662	1.3100e-003	0.2676	0.0706	1.2000e-003	0.0718		242.8135	242.8135	6.1700e-003	5.6900e-003	244.6637
<b>Total</b>	<b>0.1166</b>	<b>0.2774</b>	<b>0.9553</b>	<b>3.2800e-003</b>	<b>0.2964</b>	<b>2.5800e-003</b>	<b>0.2989</b>	<b>0.0793</b>	<b>2.4200e-003</b>	<b>0.0817</b>		<b>343.0594</b>	<b>343.0594</b>	<b>8.6200e-003</b>	<b>0.0204</b>	<b>349.3601</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**3.4 Building Construction - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	6.4000e-003	0.2269	0.0698	9.3000e-004	0.0301	1.2700e-003	0.0314	8.6700e-003	1.2200e-003	9.8900e-003		100.2459	100.2459	2.4500e-003	0.0147	104.6964
Worker	0.1102	0.0505	0.8855	2.3500e-003	0.2662	1.3100e-003	0.2676	0.0706	1.2000e-003	0.0718		242.8135	242.8135	6.1700e-003	5.6900e-003	244.6637
<b>Total</b>	<b>0.1166</b>	<b>0.2774</b>	<b>0.9553</b>	<b>3.2800e-003</b>	<b>0.2964</b>	<b>2.5800e-003</b>	<b>0.2989</b>	<b>0.0793</b>	<b>2.4200e-003</b>	<b>0.0817</b>		<b>343.0594</b>	<b>343.0594</b>	<b>8.6200e-003</b>	<b>0.0204</b>	<b>349.3601</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**3.5 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	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9181</b>	<b>8.7903</b>	<b>12.1905</b>	<b>0.0189</b>		<b>0.4357</b>	<b>0.4357</b>		<b>0.4025</b>	<b>0.4025</b>		<b>1,805.4304</b>	<b>1,805.4304</b>	<b>0.5673</b>		<b>1,819.6122</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0674	0.0324	0.5451	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		142.3398	142.3398	3.9100e-003	3.5000e-003	143.4791
<b>Total</b>	<b>0.0674</b>	<b>0.0324</b>	<b>0.5451</b>	<b>1.3900e-003</b>	<b>0.1521</b>	<b>7.8000e-004</b>	<b>0.1529</b>	<b>0.0404</b>	<b>7.2000e-004</b>	<b>0.0411</b>		<b>142.3398</b>	<b>142.3398</b>	<b>3.9100e-003</b>	<b>3.5000e-003</b>	<b>143.4791</b>



Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**3.5 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9181</b>	<b>8.7903</b>	<b>12.1905</b>	<b>0.0189</b>		<b>0.4357</b>	<b>0.4357</b>		<b>0.4025</b>	<b>0.4025</b>	<b>0.0000</b>	<b>1,805.4304</b>	<b>1,805.4304</b>	<b>0.5673</b>		<b>1,819.6122</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0674	0.0324	0.5451	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		142.3398	142.3398	3.9100e-003	3.5000e-003	143.4791
<b>Total</b>	<b>0.0674</b>	<b>0.0324</b>	<b>0.5451</b>	<b>1.3900e-003</b>	<b>0.1521</b>	<b>7.8000e-004</b>	<b>0.1529</b>	<b>0.0404</b>	<b>7.2000e-004</b>	<b>0.0411</b>		<b>142.3398</b>	<b>142.3398</b>	<b>3.9100e-003</b>	<b>3.5000e-003</b>	<b>143.4791</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**3.6 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	lb/day										lb/day					
Archit. Coating	2.6117					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>2.8034</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0236	0.0113	0.1908	4.9000e-004	0.0533	2.7000e-004	0.0535	0.0141	2.5000e-004	0.0144		49.8189	49.8189	1.3700e-003	1.2200e-003	50.2177
<b>Total</b>	<b>0.0236</b>	<b>0.0113</b>	<b>0.1908</b>	<b>4.9000e-004</b>	<b>0.0533</b>	<b>2.7000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.5000e-004</b>	<b>0.0144</b>		<b>49.8189</b>	<b>49.8189</b>	<b>1.3700e-003</b>	<b>1.2200e-003</b>	<b>50.2177</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**3.6 Architectural Coating - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.6117					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>2.8034</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0236	0.0113	0.1908	4.9000e-004	0.0533	2.7000e-004	0.0535	0.0141	2.5000e-004	0.0144		49.8189	49.8189	1.3700e-003	1.2200e-003	50.2177
<b>Total</b>	<b>0.0236</b>	<b>0.0113</b>	<b>0.1908</b>	<b>4.9000e-004</b>	<b>0.0533</b>	<b>2.7000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.5000e-004</b>	<b>0.0144</b>		<b>49.8189</b>	<b>49.8189</b>	<b>1.3700e-003</b>	<b>1.2200e-003</b>	<b>50.2177</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.6117					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>2.7925</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0220	0.0101	0.1771	4.7000e-004	0.0533	2.6000e-004	0.0535	0.0141	2.4000e-004	0.0144		48.5627	48.5627	1.2300e-003	1.1400e-003	48.9327
<b>Total</b>	<b>0.0220</b>	<b>0.0101</b>	<b>0.1771</b>	<b>4.7000e-004</b>	<b>0.0533</b>	<b>2.6000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.4000e-004</b>	<b>0.0144</b>		<b>48.5627</b>	<b>48.5627</b>	<b>1.2300e-003</b>	<b>1.1400e-003</b>	<b>48.9327</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**3.6 Architectural Coating - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.6117					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>2.7925</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0220	0.0101	0.1771	4.7000e-004	0.0533	2.6000e-004	0.0535	0.0141	2.4000e-004	0.0144		48.5627	48.5627	1.2300e-003	1.1400e-003	48.9327
<b>Total</b>	<b>0.0220</b>	<b>0.0101</b>	<b>0.1771</b>	<b>4.7000e-004</b>	<b>0.0533</b>	<b>2.6000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.4000e-004</b>	<b>0.0144</b>		<b>48.5627</b>	<b>48.5627</b>	<b>1.2300e-003</b>	<b>1.1400e-003</b>	<b>48.9327</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

**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**

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2464	1.1693	9.6175	0.0195	1.9291	0.0146	1.9437	0.5143	0.0136	0.5279		2,020.9659	2,020.9659	0.1262	0.0914	2,051.3501
Unmitigated	1.2859	1.2538	10.3622	0.0213	2.1143	0.0159	2.1301	0.5637	0.0148	0.5785		2,209.1954	2,209.1954	0.1342	0.0979	2,241.7300

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	351.36	390.72	301.44	897,757	819,108
Total	351.36	390.72	301.44	897,757	819,108

**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
Condo/Townhouse	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

**4.4 Fleet Mix**

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	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
	lb/day										lb/day					
NaturalGas Mitigated	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
NaturalGas Unmitigated	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas 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	lb/day										lb/day					
Condo/Townhouse	2481.8	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
<b>Total</b>		<b>0.0268</b>	<b>0.2287</b>	<b>0.0973</b>	<b>1.4600e-003</b>		<b>0.0185</b>	<b>0.0185</b>		<b>0.0185</b>	<b>0.0185</b>		<b>291.9763</b>	<b>291.9763</b>	<b>5.6000e-003</b>	<b>5.3500e-003</b>	<b>293.7114</b>

**Mitigated**

	Natural Gas 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	lb/day										lb/day					
Condo/Townhouse	2.4818	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
<b>Total</b>		<b>0.0268</b>	<b>0.2287</b>	<b>0.0973</b>	<b>1.4600e-003</b>		<b>0.0185</b>	<b>0.0185</b>		<b>0.0185</b>	<b>0.0185</b>		<b>291.9763</b>	<b>291.9763</b>	<b>5.6000e-003</b>	<b>5.3500e-003</b>	<b>293.7114</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed



Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

**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	lb/day										lb/day					
Mitigated	1.3108	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219	0.0000	7.1305	7.1305	6.8400e-003	0.0000	7.3016
Unmitigated	1.3108	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219	0.0000	7.1305	7.1305	6.8400e-003	0.0000	7.3016

**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	lb/day										lb/day					
Architectural Coating	0.1646					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0272					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1190	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219		7.1305	7.1305	6.8400e-003		7.3016
<b>Total</b>	<b>1.3108</b>	<b>0.0456</b>	<b>3.9584</b>	<b>2.1000e-004</b>		<b>0.0219</b>	<b>0.0219</b>		<b>0.0219</b>	<b>0.0219</b>	<b>0.0000</b>	<b>7.1305</b>	<b>7.1305</b>	<b>6.8400e-003</b>	<b>0.0000</b>	<b>7.3016</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

**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	lb/day										lb/day					
Architectural Coating	0.1646					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0272					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1190	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219		7.1305	7.1305	6.8400e-003		7.3016
<b>Total</b>	<b>1.3108</b>	<b>0.0456</b>	<b>3.9584</b>	<b>2.1000e-004</b>		<b>0.0219</b>	<b>0.0219</b>		<b>0.0219</b>	<b>0.0219</b>	<b>0.0000</b>	<b>7.1305</b>	<b>7.1305</b>	<b>6.8400e-003</b>	<b>0.0000</b>	<b>7.3016</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**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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Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**Norwood Townhomes**

**Sacramento Metropolitan AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	48.00	Dwelling Unit	3.70	48,000.00	128

**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 - Lot acreage based on site plan for the proposed project.

Construction Phase - Grading phase adjusted based on AQ questionnaire. Architectural coating assumed to start two weeks after the initiation of building construction, and last for the same duration.

Grading -

Mobile Land Use Mitigation - Information based on applicant provided AQ questionnaire.

Area Mitigation - Information based on applicant provided AQ questionnaire.

Water Mitigation - Outdoor water conservation strategy applied to reflect compliance with MWEL0.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	8.00	5.00
tblConstructionPhase	NumDays	18.00	230.00
tblConstructionPhase	PhaseEndDate	6/19/2023	6/14/2023

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

tblConstructionPhase	PhaseEndDate	5/30/2024	7/10/2023
tblConstructionPhase	PhaseEndDate	5/6/2024	5/27/2024
tblConstructionPhase	PhaseEndDate	6/25/2024	6/10/2024
tblConstructionPhase	PhaseStartDate	5/7/2024	6/15/2023
tblConstructionPhase	PhaseStartDate	6/20/2023	7/11/2023
tblConstructionPhase	PhaseStartDate	5/31/2024	7/25/2023
tblLandUse	LotAcreage	3.00	3.70

**2.0 Emissions Summary**

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Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**2.1 Overall Construction (Maximum Daily Emission)**

**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	lb/day										lb/day					
2023	4.5080	27.5599	19.1274	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.262 2	3,801.262 2	1.1966	0.0234	3,832.252 4
2024	4.3875	14.9808	18.9798	0.0334	0.3496	0.6771	1.0267	0.0934	0.6405	0.7339	0.0000	3,196.750 6	3,196.750 6	0.6312	0.0226	3,219.263 2
<b>Maximum</b>	<b>4.5080</b>	<b>27.5599</b>	<b>19.1274</b>	<b>0.0392</b>	<b>19.7939</b>	<b>1.2667</b>	<b>21.0607</b>	<b>10.1388</b>	<b>1.1654</b>	<b>11.3042</b>	<b>0.0000</b>	<b>3,801.262 2</b>	<b>3,801.262 2</b>	<b>1.1966</b>	<b>0.0234</b>	<b>3,832.252 4</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	lb/day										lb/day					
2023	4.5080	27.5599	19.1274	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.262 2	3,801.262 2	1.1966	0.0234	3,832.252 4
2024	4.3875	14.9808	18.9798	0.0334	0.3496	0.6771	1.0267	0.0934	0.6405	0.7339	0.0000	3,196.750 6	3,196.750 6	0.6312	0.0226	3,219.263 2
<b>Maximum</b>	<b>4.5080</b>	<b>27.5599</b>	<b>19.1274</b>	<b>0.0392</b>	<b>19.7939</b>	<b>1.2667</b>	<b>21.0607</b>	<b>10.1388</b>	<b>1.1654</b>	<b>11.3042</b>	<b>0.0000</b>	<b>3,801.262 2</b>	<b>3,801.262 2</b>	<b>1.1966</b>	<b>0.0234</b>	<b>3,832.252 4</b>



Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3108	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219	0.0000	7.1305	7.1305	6.8400e-003	0.0000	7.3016
Energy	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
Mobile	1.0107	1.4513	10.2315	0.0195	2.1143	0.0159	2.1302	0.5637	0.0148	0.5785		2,020.0838	2,020.0838	0.1516	0.1070	2,055.7579
<b>Total</b>	<b>2.3483</b>	<b>1.7256</b>	<b>14.2872</b>	<b>0.0212</b>	<b>2.1143</b>	<b>0.0563</b>	<b>2.1706</b>	<b>0.5637</b>	<b>0.0553</b>	<b>0.6189</b>	<b>0.0000</b>	<b>2,319.1906</b>	<b>2,319.1906</b>	<b>0.1640</b>	<b>0.1124</b>	<b>2,356.7708</b>

**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	lb/day										lb/day					
Area	1.3108	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219	0.0000	7.1305	7.1305	6.8400e-003	0.0000	7.3016
Energy	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
Mobile	0.9696	1.3530	9.5767	0.0178	1.9291	0.0146	1.9437	0.5143	0.0137	0.5280		1,848.5842	1,848.5842	0.1436	0.0999	1,881.9475
<b>Total</b>	<b>2.3071</b>	<b>1.6274</b>	<b>13.6324</b>	<b>0.0195</b>	<b>1.9291</b>	<b>0.0551</b>	<b>1.9841</b>	<b>0.5143</b>	<b>0.0541</b>	<b>0.5684</b>	<b>0.0000</b>	<b>2,147.6911</b>	<b>2,147.6911</b>	<b>0.1560</b>	<b>0.1053</b>	<b>2,182.9604</b>



Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.75	5.69	4.58	7.80	8.76	2.22	8.59	8.76	2.12	8.17	0.00	7.39	7.39	4.86	6.31	7.37

**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	6/1/2023	6/7/2023	5	5	
2	Grading	Grading	6/8/2023	6/14/2023	5	5	
3	Building Construction	Building Construction	7/11/2023	5/27/2024	5	230	
4	Paving	Paving	6/15/2023	7/10/2023	5	18	
5	Architectural Coating	Architectural Coating	7/25/2023	6/10/2024	5	230	

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 5**

**Acres of Paving: 0**

**Residential Indoor: 97,200; Residential Outdoor: 32,400; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	35.00	5.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**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	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2660</b>	<b>20.9230</b>	<b>10.1025</b>	<b>1.1647</b>	<b>11.2672</b>		<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
<b>Total</b>	<b>0.0537</b>	<b>0.0358</b>	<b>0.4272</b>	<b>1.1100e-003</b>	<b>0.1369</b>	<b>7.1000e-004</b>	<b>0.1376</b>	<b>0.0363</b>	<b>6.5000e-004</b>	<b>0.0370</b>		<b>113.9541</b>	<b>113.9541</b>	<b>4.0500e-003</b>	<b>3.6100e-003</b>	<b>115.1305</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**3.2 Site Preparation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2660</b>	<b>20.9230</b>	<b>10.1025</b>	<b>1.1647</b>	<b>11.2672</b>	<b>0.0000</b>	<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
<b>Total</b>	<b>0.0537</b>	<b>0.0358</b>	<b>0.4272</b>	<b>1.1100e-003</b>	<b>0.1369</b>	<b>7.1000e-004</b>	<b>0.1376</b>	<b>0.0363</b>	<b>6.5000e-004</b>	<b>0.0370</b>		<b>113.9541</b>	<b>113.9541</b>	<b>4.0500e-003</b>	<b>3.6100e-003</b>	<b>115.1305</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**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	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
<b>Total</b>	<b>1.7109</b>	<b>17.9359</b>	<b>14.7507</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.7749</b>	<b>7.8575</b>	<b>3.4247</b>	<b>0.7129</b>	<b>4.1377</b>		<b>2,872.6910</b>	<b>2,872.6910</b>	<b>0.9291</b>		<b>2,895.9182</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0448	0.0298	0.3560	9.3000e-004	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		94.9617	94.9617	3.3700e-003	3.0100e-003	95.9421
<b>Total</b>	<b>0.0448</b>	<b>0.0298</b>	<b>0.3560</b>	<b>9.3000e-004</b>	<b>0.1141</b>	<b>5.9000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.4000e-004</b>	<b>0.0308</b>		<b>94.9617</b>	<b>94.9617</b>	<b>3.3700e-003</b>	<b>3.0100e-003</b>	<b>95.9421</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**3.3 Grading - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
<b>Total</b>	<b>1.7109</b>	<b>17.9359</b>	<b>14.7507</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.7749</b>	<b>7.8575</b>	<b>3.4247</b>	<b>0.7129</b>	<b>4.1377</b>	<b>0.0000</b>	<b>2,872.6910</b>	<b>2,872.6910</b>	<b>0.9291</b>		<b>2,895.9182</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0448	0.0298	0.3560	9.3000e-004	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		94.9617	94.9617	3.3700e-003	3.0100e-003	95.9421
<b>Total</b>	<b>0.0448</b>	<b>0.0298</b>	<b>0.3560</b>	<b>9.3000e-004</b>	<b>0.1141</b>	<b>5.9000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.4000e-004</b>	<b>0.0308</b>		<b>94.9617</b>	<b>94.9617</b>	<b>3.3700e-003</b>	<b>3.0100e-003</b>	<b>95.9421</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**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	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	6.4700e-003	0.2488	0.0754	9.5000e-004	0.0301	1.3100e-003	0.0314	8.6700e-003	1.2500e-003	9.9200e-003		102.2654	102.2654	2.5100e-003	0.0150	106.8029
Worker	0.1045	0.0695	0.8308	2.1700e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		221.5774	221.5774	7.8700e-003	7.0200e-003	223.8649
<b>Total</b>	<b>0.1109</b>	<b>0.3184</b>	<b>0.9061</b>	<b>3.1200e-003</b>	<b>0.2964</b>	<b>2.6800e-003</b>	<b>0.2991</b>	<b>0.0793</b>	<b>2.5100e-003</b>	<b>0.0818</b>		<b>323.8427</b>	<b>323.8427</b>	<b>0.0104</b>	<b>0.0220</b>	<b>330.6678</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**3.4 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	6.4700e-003	0.2488	0.0754	9.5000e-004	0.0301	1.3100e-003	0.0314	8.6700e-003	1.2500e-003	9.9200e-003		102.2654	102.2654	2.5100e-003	0.0150	106.8029
Worker	0.1045	0.0695	0.8308	2.1700e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		221.5774	221.5774	7.8700e-003	7.0200e-003	223.8649
<b>Total</b>	<b>0.1109</b>	<b>0.3184</b>	<b>0.9061</b>	<b>3.1200e-003</b>	<b>0.2964</b>	<b>2.6800e-003</b>	<b>0.2991</b>	<b>0.0793</b>	<b>2.5100e-003</b>	<b>0.0818</b>		<b>323.8427</b>	<b>323.8427</b>	<b>0.0104</b>	<b>0.0220</b>	<b>330.6678</b>



Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**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	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	6.1800e-003	0.2440	0.0730	9.3000e-004	0.0301	1.2900e-003	0.0314	8.6700e-003	1.2300e-003	9.9000e-003		100.3304	100.3304	2.4400e-003	0.0148	104.7910
Worker	0.0978	0.0619	0.7748	2.0900e-003	0.2662	1.3100e-003	0.2676	0.0706	1.2000e-003	0.0718		216.0610	216.0610	7.1500e-003	6.5200e-003	218.1835
<b>Total</b>	<b>0.1039</b>	<b>0.3059</b>	<b>0.8479</b>	<b>3.0200e-003</b>	<b>0.2964</b>	<b>2.6000e-003</b>	<b>0.2990</b>	<b>0.0793</b>	<b>2.4300e-003</b>	<b>0.0817</b>		<b>316.3914</b>	<b>316.3914</b>	<b>9.5900e-003</b>	<b>0.0213</b>	<b>322.9746</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**3.4 Building Construction - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	6.1800e-003	0.2440	0.0730	9.3000e-004	0.0301	1.2900e-003	0.0314	8.6700e-003	1.2300e-003	9.9000e-003		100.3304	100.3304	2.4400e-003	0.0148	104.7910
Worker	0.0978	0.0619	0.7748	2.0900e-003	0.2662	1.3100e-003	0.2676	0.0706	1.2000e-003	0.0718		216.0610	216.0610	7.1500e-003	6.5200e-003	218.1835
<b>Total</b>	<b>0.1039</b>	<b>0.3059</b>	<b>0.8479</b>	<b>3.0200e-003</b>	<b>0.2964</b>	<b>2.6000e-003</b>	<b>0.2990</b>	<b>0.0793</b>	<b>2.4300e-003</b>	<b>0.0817</b>		<b>316.3914</b>	<b>316.3914</b>	<b>9.5900e-003</b>	<b>0.0213</b>	<b>322.9746</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**3.5 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	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9181</b>	<b>8.7903</b>	<b>12.1905</b>	<b>0.0189</b>		<b>0.4357</b>	<b>0.4357</b>		<b>0.4025</b>	<b>0.4025</b>		<b>1,805.4304</b>	<b>1,805.4304</b>	<b>0.5673</b>		<b>1,819.6122</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0597	0.0397	0.4747	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		126.6156	126.6156	4.5000e-003	4.0100e-003	127.9228
<b>Total</b>	<b>0.0597</b>	<b>0.0397</b>	<b>0.4747</b>	<b>1.2400e-003</b>	<b>0.1521</b>	<b>7.8000e-004</b>	<b>0.1529</b>	<b>0.0404</b>	<b>7.2000e-004</b>	<b>0.0411</b>		<b>126.6156</b>	<b>126.6156</b>	<b>4.5000e-003</b>	<b>4.0100e-003</b>	<b>127.9228</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**3.5 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9181</b>	<b>8.7903</b>	<b>12.1905</b>	<b>0.0189</b>		<b>0.4357</b>	<b>0.4357</b>		<b>0.4025</b>	<b>0.4025</b>	<b>0.0000</b>	<b>1,805.4304</b>	<b>1,805.4304</b>	<b>0.5673</b>		<b>1,819.6122</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0597	0.0397	0.4747	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		126.6156	126.6156	4.5000e-003	4.0100e-003	127.9228
<b>Total</b>	<b>0.0597</b>	<b>0.0397</b>	<b>0.4747</b>	<b>1.2400e-003</b>	<b>0.1521</b>	<b>7.8000e-004</b>	<b>0.1529</b>	<b>0.0404</b>	<b>7.2000e-004</b>	<b>0.0411</b>		<b>126.6156</b>	<b>126.6156</b>	<b>4.5000e-003</b>	<b>4.0100e-003</b>	<b>127.9228</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**3.6 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	lb/day										lb/day					
Archit. Coating	2.6117					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>2.8034</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0209	0.0139	0.1662	4.3000e-004	0.0533	2.7000e-004	0.0535	0.0141	2.5000e-004	0.0144		44.3155	44.3155	1.5700e-003	1.4000e-003	44.7730
<b>Total</b>	<b>0.0209</b>	<b>0.0139</b>	<b>0.1662</b>	<b>4.3000e-004</b>	<b>0.0533</b>	<b>2.7000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.5000e-004</b>	<b>0.0144</b>		<b>44.3155</b>	<b>44.3155</b>	<b>1.5700e-003</b>	<b>1.4000e-003</b>	<b>44.7730</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**3.6 Architectural Coating - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.6117					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>2.8034</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0209	0.0139	0.1662	4.3000e-004	0.0533	2.7000e-004	0.0535	0.0141	2.5000e-004	0.0144		44.3155	44.3155	1.5700e-003	1.4000e-003	44.7730
<b>Total</b>	<b>0.0209</b>	<b>0.0139</b>	<b>0.1662</b>	<b>4.3000e-004</b>	<b>0.0533</b>	<b>2.7000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.5000e-004</b>	<b>0.0144</b>		<b>44.3155</b>	<b>44.3155</b>	<b>1.5700e-003</b>	<b>1.4000e-003</b>	<b>44.7730</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.6117					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>2.7925</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0196	0.0124	0.1550	4.2000e-004	0.0533	2.6000e-004	0.0535	0.0141	2.4000e-004	0.0144		43.2122	43.2122	1.4300e-003	1.3000e-003	43.6367
<b>Total</b>	<b>0.0196</b>	<b>0.0124</b>	<b>0.1550</b>	<b>4.2000e-004</b>	<b>0.0533</b>	<b>2.6000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.4000e-004</b>	<b>0.0144</b>		<b>43.2122</b>	<b>43.2122</b>	<b>1.4300e-003</b>	<b>1.3000e-003</b>	<b>43.6367</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**3.6 Architectural Coating - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.6117					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>2.7925</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0196	0.0124	0.1550	4.2000e-004	0.0533	2.6000e-004	0.0535	0.0141	2.4000e-004	0.0144		43.2122	43.2122	1.4300e-003	1.3000e-003	43.6367
<b>Total</b>	<b>0.0196</b>	<b>0.0124</b>	<b>0.1550</b>	<b>4.2000e-004</b>	<b>0.0533</b>	<b>2.6000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.4000e-004</b>	<b>0.0144</b>		<b>43.2122</b>	<b>43.2122</b>	<b>1.4300e-003</b>	<b>1.3000e-003</b>	<b>43.6367</b>



Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

**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**

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9696	1.3530	9.5767	0.0178	1.9291	0.0146	1.9437	0.5143	0.0137	0.5280		1,848,584 2	1,848,584 2	0.1436	0.0999	1,881,947 5
Unmitigated	1.0107	1.4513	10.2315	0.0195	2.1143	0.0159	2.1302	0.5637	0.0148	0.5785		2,020,083 8	2,020,083 8	0.1516	0.1070	2,055,757 9

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	351.36	390.72	301.44	897,757	819,108
Total	351.36	390.72	301.44	897,757	819,108

**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
Condo/Townhouse	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

**4.4 Fleet Mix**

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	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
	lb/day										lb/day					
NaturalGas Mitigated	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
NaturalGas Unmitigated	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

**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	lb/day										lb/day					
Condo/Townhouse	2481.8	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
<b>Total</b>		<b>0.0268</b>	<b>0.2287</b>	<b>0.0973</b>	<b>1.4600e-003</b>		<b>0.0185</b>	<b>0.0185</b>		<b>0.0185</b>	<b>0.0185</b>		<b>291.9763</b>	<b>291.9763</b>	<b>5.6000e-003</b>	<b>5.3500e-003</b>	<b>293.7114</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	lb/day										lb/day					
Condo/Townhouse	2.4818	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
<b>Total</b>		<b>0.0268</b>	<b>0.2287</b>	<b>0.0973</b>	<b>1.4600e-003</b>		<b>0.0185</b>	<b>0.0185</b>		<b>0.0185</b>	<b>0.0185</b>		<b>291.9763</b>	<b>291.9763</b>	<b>5.6000e-003</b>	<b>5.3500e-003</b>	<b>293.7114</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

**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	lb/day										lb/day					
Mitigated	1.3108	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219	0.0000	7.1305	7.1305	6.8400e-003	0.0000	7.3016
Unmitigated	1.3108	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219	0.0000	7.1305	7.1305	6.8400e-003	0.0000	7.3016

**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	lb/day										lb/day					
Architectural Coating	0.1646					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0272					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1190	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219		7.1305	7.1305	6.8400e-003		7.3016
<b>Total</b>	<b>1.3108</b>	<b>0.0456</b>	<b>3.9584</b>	<b>2.1000e-004</b>		<b>0.0219</b>	<b>0.0219</b>		<b>0.0219</b>	<b>0.0219</b>	<b>0.0000</b>	<b>7.1305</b>	<b>7.1305</b>	<b>6.8400e-003</b>	<b>0.0000</b>	<b>7.3016</b>

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

**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	lb/day										lb/day					
Architectural Coating	0.1646					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0272					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1190	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219		7.1305	7.1305	6.8400e-003		7.3016
<b>Total</b>	<b>1.3108</b>	<b>0.0456</b>	<b>3.9584</b>	<b>2.1000e-004</b>		<b>0.0219</b>	<b>0.0219</b>		<b>0.0219</b>	<b>0.0219</b>	<b>0.0000</b>	<b>7.1305</b>	<b>7.1305</b>	<b>6.8400e-003</b>	<b>0.0000</b>	<b>7.3016</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**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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### Norwood Townhomes

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

#### Sacramento Metropolitan AQMD Air District, Mitigation Report

#### Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### OFFROAD Equipment Mitigation

### Norwood Townhomes

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

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	2	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	11	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00



### Norwood Townhomes

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	2.14100E-002	1.44960E-001	2.08220E-001	3.40000E-004	7.57000E-003	7.57000E-003	0.00000E+000	2.93624E+001	2.93624E+001	1.70000E-003	0.00000E+000	2.94050E+001
Cement and Mortar Mixers	7.90000E-004	4.97000E-003	4.16000E-003	1.00000E-005	1.90000E-004	1.90000E-004	0.00000E+000	6.18670E-001	6.18670E-001	6.00000E-005	0.00000E+000	6.20280E-001
Cranes	3.44500E-002	3.69500E-001	1.81820E-001	5.80000E-004	1.54100E-002	1.41700E-002	0.00000E+000	5.10116E+001	5.10116E+001	1.65000E-002	0.00000E+000	5.14240E+001
Excavators	4.70000E-004	3.87000E-003	8.14000E-003	1.00000E-005	1.90000E-004	1.70000E-004	0.00000E+000	1.13422E+000	1.13422E+000	3.70000E-004	0.00000E+000	1.14339E+000
Forklifts	3.40500E-002	3.18980E-001	3.94080E-001	5.30000E-004	1.91400E-002	1.76100E-002	0.00000E+000	4.63305E+001	4.63305E+001	1.49800E-002	0.00000E+000	4.67051E+001
Generator Sets	3.40700E-002	3.03230E-001	4.21690E-001	7.60000E-004	1.38200E-002	1.38200E-002	0.00000E+000	6.49989E+001	6.49989E+001	2.75000E-003	0.00000E+000	6.50677E+001
Graders	9.60000E-004	1.16300E-002	4.23000E-003	2.00000E-005	3.80000E-004	3.50000E-004	0.00000E+000	1.45344E+000	1.45344E+000	4.70000E-004	0.00000E+000	1.46519E+000
Pavers	1.73000E-003	1.69500E-002	2.59500E-002	4.00000E-005	8.00000E-004	7.30000E-004	0.00000E+000	3.71670E+000	3.71670E+000	1.20000E-003	0.00000E+000	3.74675E+000
Paving Equipment	2.30000E-003	2.16400E-002	3.45200E-002	6.00000E-005	1.05000E-003	9.70000E-004	0.00000E+000	4.83104E+000	4.83104E+000	1.56000E-003	0.00000E+000	4.87010E+000
Rollers	2.08000E-003	2.17400E-002	2.50100E-002	4.00000E-005	1.20000E-003	1.10000E-003	0.00000E+000	3.11206E+000	3.11206E+000	1.01000E-003	0.00000E+000	3.13722E+000
Rubber Tired Dozers	6.85000E-003	7.12700E-002	3.10600E-002	9.00000E-005	3.21000E-003	2.95000E-003	0.00000E+000	7.50242E+000	7.50242E+000	2.43000E-003	0.00000E+000	7.56309E+000
Tractors/Loaders/Backhoes	4.86700E-002	4.92120E-001	7.33310E-001	1.02000E-003	2.35900E-002	2.17100E-002	0.00000E+000	8.98627E+001	8.98627E+001	2.90600E-002	0.00000E+000	9.05893E+001
Welders	2.82800E-002	1.61250E-001	1.92210E-001	2.90000E-004	5.93000E-003	5.93000E-003	0.00000E+000	2.16454E+001	2.16454E+001	2.29000E-003	0.00000E+000	2.17027E+001

### Norwood Townhomes

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	2.14100E-002	1.44960E-001	2.08220E-001	3.40000E-004	7.57000E-003	7.57000E-003	0.00000E+000	2.93624E+001	2.93624E+001	1.70000E-003	0.00000E+000	2.94050E+001
Cement and Mortar Mixers	7.90000E-004	4.97000E-003	4.16000E-003	1.00000E-005	1.90000E-004	1.90000E-004	0.00000E+000	6.18670E-001	6.18670E-001	6.00000E-005	0.00000E+000	6.20280E-001
Cranes	3.44500E-002	3.69500E-001	1.81820E-001	5.80000E-004	1.54100E-002	1.41700E-002	0.00000E+000	5.10115E+001	5.10115E+001	1.65000E-002	0.00000E+000	5.14240E+001
Excavators	4.70000E-004	3.87000E-003	8.14000E-003	1.00000E-005	1.90000E-004	1.70000E-004	0.00000E+000	1.13422E+000	1.13422E+000	3.70000E-004	0.00000E+000	1.14339E+000
Forklifts	3.40500E-002	3.18980E-001	3.94080E-001	5.30000E-004	1.91400E-002	1.76100E-002	0.00000E+000	4.63305E+001	4.63305E+001	1.49800E-002	0.00000E+000	4.67051E+001
Generator Sets	3.40700E-002	3.03230E-001	4.21690E-001	7.60000E-004	1.38200E-002	1.38200E-002	0.00000E+000	6.49988E+001	6.49988E+001	2.75000E-003	0.00000E+000	6.50676E+001
Graders	9.60000E-004	1.16300E-002	4.23000E-003	2.00000E-005	3.80000E-004	3.50000E-004	0.00000E+000	1.45343E+000	1.45343E+000	4.70000E-004	0.00000E+000	1.46519E+000
Pavers	1.73000E-003	1.69500E-002	2.59500E-002	4.00000E-005	8.00000E-004	7.30000E-004	0.00000E+000	3.71669E+000	3.71669E+000	1.20000E-003	0.00000E+000	3.74674E+000
Paving Equipment	2.30000E-003	2.16400E-002	3.45200E-002	6.00000E-005	1.05000E-003	9.70000E-004	0.00000E+000	4.83103E+000	4.83103E+000	1.56000E-003	0.00000E+000	4.87009E+000
Rollers	2.08000E-003	2.17400E-002	2.50100E-002	4.00000E-005	1.20000E-003	1.10000E-003	0.00000E+000	3.11205E+000	3.11205E+000	1.01000E-003	0.00000E+000	3.13721E+000
Rubber Tired Dozers	6.85000E-003	7.12700E-002	3.10600E-002	9.00000E-005	3.21000E-003	2.95000E-003	0.00000E+000	7.50242E+000	7.50242E+000	2.43000E-003	0.00000E+000	7.56308E+000
Tractors/Loaders/Balckhoes	4.86700E-002	4.92110E-001	7.33300E-001	1.02000E-003	2.35900E-002	2.17100E-002	0.00000E+000	8.98626E+001	8.98626E+001	2.90600E-002	0.00000E+000	9.05892E+001
Welders	2.82800E-002	1.61250E-001	1.92210E-001	2.90000E-004	5.93000E-003	5.93000E-003	0.00000E+000	2.16454E+001	2.16454E+001	2.29000E-003	0.00000E+000	2.17026E+001

### Norwood Townhomes

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.36229E-006	1.36229E-006	0.00000E+000	0.00000E+000	1.02023E-006
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17620E-006	1.17620E-006	0.00000E+000	0.00000E+000	1.16677E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07920E-006	1.07920E-006	0.00000E+000	0.00000E+000	1.28466E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23079E-006	1.23079E-006	0.00000E+000	0.00000E+000	1.22949E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	6.88023E-006	6.88023E-006	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.69056E-006	2.69056E-006	0.00000E+000	0.00000E+000	2.66898E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.06995E-006	2.06995E-006	0.00000E+000	0.00000E+000	2.05335E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.21331E-006	3.21331E-006	0.00000E+000	0.00000E+000	3.18754E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.32221E-006
Tractors/Loaders/Balckhoes	0.00000E+000	2.03202E-005	1.36368E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22409E-006	1.22409E-006	0.00000E+000	0.00000E+000	1.21427E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.23985E-007	9.23985E-007	0.00000E+000	0.00000E+000	9.21546E-007

#### Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
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### Norwood Townhomes

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

No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction			
No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction		Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.03	0.01	0.03	0.01	0.00	0.00
Grading	Fugitive Dust	0.02	0.01	0.02	0.01	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.05	0.03	0.05	0.03	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

#### Operational Percent Reduction Summary

### Norwood Townhomes

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

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	3.78	6.81	6.73	8.36	7.75	7.88	0.00	8.50	8.50	5.57	6.63	8.47
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.14	4.71	0.48	0.41	4.03
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
Yes	Land Use	Increase Transit Accessibility	0.08	0.50		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.08			

**Norwood Townhomes**

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

Yes	Neighborhood Enhancements	Improve Pedestrian Network	1.00	Project Site		
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.01			
No	Parking Policy Pricing	Limit Parking Supply	0.00	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00	0.00		
No	Transit Improvements	Expand Transit Network	0.00	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		0.00	
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.09			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	4.50			
No	Commute	Workplace Parking Charge		0.00		
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00			2.00

**Norwood Townhomes**

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

No	Commuter	Provide Ride Sharing Program	10.00		
	Commuter	Commuter Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.09		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		

**Norwood Townhomes**

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

No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	0.00	20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

**Solid Waste Mitigation**



### Norwood Townhomes

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

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	