

PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Summer

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

**PROJ - 2020-00203 Bubble Camp  
Mojave Desert AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Motel	10.00	Room	0.24	10,840.00	0
General Office Building	3.54	1000sqft	0.08	3,536.00	0
Other Non-Asphalt Surfaces	84.59	1000sqft	1.94	84,593.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	10	<b>Operational Year</b>	2022		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use - Land use per site plan - motel picked as bubble camp site model to best determine worst-case emissions. Gen Office Bldg includes sf for office and garage.

Construction Phase -

Off-road Equipment - Removed Welders and crane from Bldg Construction default equipment and lowered forklifts from 3 to 1 due to this project not being a complete construction of 10 motel rooms and only construction on the office, garage, platforms, and minor facilities.

Off-road Equipment - Removed equipment associated with asphalt type paving, decreased rollers from 2 to 1 and added a grader as drives will be 85% compacted native soil or gravel per site plans.

Grading - Lowered default total acres graded to amounts indicated in site plan for structure, campsites, and driveways.

Water And Wastewater - Operational Water Use decreased to 0 as site is for camping and no irrigation of landscaping will be necessary.

Construction Off-road Equipment Mitigation -

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Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblGrading	AcresOfGrading	6.00	2.30
tblGrading	AcresOfGrading	4.50	2.30
tblLandUse	LandUseSquareFeet	19,602.00	10,840.00
tblLandUse	LotAcreage	0.45	0.24
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblWater	OutdoorWaterUseRate	385,624.90	0.00
tblWater	OutdoorWaterUseRate	28,185.30	0.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2021	1.8701	20.2387	11.0221	0.0251	6.5108	0.9162	7.4270	3.3759	0.8429	4.2188	0.0000	2,436.789 2	2,436.789 2	0.7695	0.0575	2,456.581 3
2022	39.4344	6.0397	7.9305	0.0167	0.4453	0.2865	0.7318	0.1206	0.2756	0.3962	0.0000	1,638.049 6	1,638.049 6	0.2848	0.0555	1,658.496 5
<b>Maximum</b>	<b>39.4344</b>	<b>20.2387</b>	<b>11.0221</b>	<b>0.0251</b>	<b>6.5108</b>	<b>0.9162</b>	<b>7.4270</b>	<b>3.3759</b>	<b>0.8429</b>	<b>4.2188</b>	<b>0.0000</b>	<b>2,436.789 2</b>	<b>2,436.789 2</b>	<b>0.7695</b>	<b>0.0575</b>	<b>2,456.581 3</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					
2021	1.8701	20.2387	11.0221	0.0251	2.5893	0.9162	3.5055	1.3299	0.8429	2.1728	0.0000	2,436.789 2	2,436.789 2	0.7695	0.0575	2,456.581 3
2022	39.4344	6.0397	7.9305	0.0167	0.4453	0.2865	0.7318	0.1206	0.2756	0.3962	0.0000	1,638.049 6	1,638.049 6	0.2848	0.0555	1,658.496 5
<b>Maximum</b>	<b>39.4344</b>	<b>20.2387</b>	<b>11.0221</b>	<b>0.0251</b>	<b>2.5893</b>	<b>0.9162</b>	<b>3.5055</b>	<b>1.3299</b>	<b>0.8429</b>	<b>2.1728</b>	<b>0.0000</b>	<b>2,436.789 2</b>	<b>2,436.789 2</b>	<b>0.7695</b>	<b>0.0575</b>	<b>2,456.581 3</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	56.37	0.00	48.06	58.52	0.00	44.33	0.00	0.00	0.00	0.00	0.00	0.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.4459	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0215	0.0215	6.0000e-005		0.0229
Energy	0.0194	0.1764	0.1482	1.0600e-003		0.0134	0.0134		0.0134	0.0134		211.6599	211.6599	4.0600e-003	3.8800e-003	212.9177
Mobile	0.2381	0.2717	1.7702	3.3700e-003	0.3080	3.1100e-003	0.3111	0.0821	2.9200e-003	0.0850		342.7797	342.7797	0.0207	0.0183	348.7422
<b>Total</b>	<b>0.7035</b>	<b>0.4482</b>	<b>1.9284</b>	<b>4.4300e-003</b>	<b>0.3080</b>	<b>0.0166</b>	<b>0.3245</b>	<b>0.0821</b>	<b>0.0164</b>	<b>0.0985</b>		<b>554.4611</b>	<b>554.4611</b>	<b>0.0248</b>	<b>0.0222</b>	<b>561.6828</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	0.4459	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0215	0.0215	6.0000e-005		0.0229
Energy	0.0194	0.1764	0.1482	1.0600e-003		0.0134	0.0134		0.0134	0.0134		211.6599	211.6599	4.0600e-003	3.8800e-003	212.9177
Mobile	0.2381	0.2717	1.7702	3.3700e-003	0.3080	3.1100e-003	0.3111	0.0821	2.9200e-003	0.0850		342.7797	342.7797	0.0207	0.0183	348.7422
<b>Total</b>	<b>0.7035</b>	<b>0.4482</b>	<b>1.9284</b>	<b>4.4300e-003</b>	<b>0.3080</b>	<b>0.0166</b>	<b>0.3245</b>	<b>0.0821</b>	<b>0.0164</b>	<b>0.0985</b>		<b>554.4611</b>	<b>554.4611</b>	<b>0.0248</b>	<b>0.0222</b>	<b>561.6828</b>

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

**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	10/9/2021	10/13/2021	5	3	
2	Grading	Grading	10/14/2021	10/21/2021	5	6	
3	Building Construction	Building Construction	10/22/2021	8/25/2022	5	220	
4	Paving	Paving	8/26/2022	9/8/2022	5	10	
5	Architectural Coating	Architectural Coating	9/9/2022	9/22/2022	5	10	

**Acres of Grading (Site Preparation Phase): 2.3**

**Acres of Grading (Grading Phase): 2.3**

**Acres of Paving: 1.94**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 21,564; Non-Residential Outdoor: 7,188; Striped Parking Area: 5,076 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Graders	1	4.00	187	0.41
Building Construction	Forklifts	1	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41

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Paving	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37

**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	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	41.00	16.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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**3.2 Site Preparation - 2021**

**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					0.8131	0.0000	0.8131	0.0878	0.0000	0.0878			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457		2,372.883 2	2,372.883 2	0.7674		2,392.069 2
<b>Total</b>	<b>1.5463</b>	<b>18.2862</b>	<b>10.7496</b>	<b>0.0245</b>	<b>0.8131</b>	<b>0.7019</b>	<b>1.5149</b>	<b>0.0878</b>	<b>0.6457</b>	<b>0.7335</b>		<b>2,372.883 2</b>	<b>2,372.883 2</b>	<b>0.7674</b>		<b>2,392.069 2</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	0.0344	0.0202	0.2725	6.3000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		63.9060	63.9060	2.0600e-003	1.8600e-003	64.5121
<b>Total</b>	<b>0.0344</b>	<b>0.0202</b>	<b>0.2725</b>	<b>6.3000e-004</b>	<b>0.0657</b>	<b>3.5000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.3000e-004</b>	<b>0.0178</b>		<b>63.9060</b>	<b>63.9060</b>	<b>2.0600e-003</b>	<b>1.8600e-003</b>	<b>64.5121</b>



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**3.2 Site Preparation - 2021**

**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					0.3171	0.0000	0.3171	0.0342	0.0000	0.0342			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457	0.0000	2,372.883 2	2,372.883 2	0.7674		2,392.069 2
<b>Total</b>	<b>1.5463</b>	<b>18.2862</b>	<b>10.7496</b>	<b>0.0245</b>	<b>0.3171</b>	<b>0.7019</b>	<b>1.0190</b>	<b>0.0342</b>	<b>0.6457</b>	<b>0.6800</b>	<b>0.0000</b>	<b>2,372.883 2</b>	<b>2,372.883 2</b>	<b>0.7674</b>		<b>2,392.069 2</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	0.0344	0.0202	0.2725	6.3000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		63.9060	63.9060	2.0600e-003	1.8600e-003	64.5121
<b>Total</b>	<b>0.0344</b>	<b>0.0202</b>	<b>0.2725</b>	<b>6.3000e-004</b>	<b>0.0657</b>	<b>3.5000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.3000e-004</b>	<b>0.0178</b>		<b>63.9060</b>	<b>63.9060</b>	<b>2.0600e-003</b>	<b>1.8600e-003</b>	<b>64.5121</b>

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**3.3 Grading - 2021**

**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					6.4286	0.0000	6.4286	3.3541	0.0000	3.3541			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
<b>Total</b>	<b>1.8271</b>	<b>20.2135</b>	<b>9.7604</b>	<b>0.0206</b>	<b>6.4286</b>	<b>0.9158</b>	<b>7.3444</b>	<b>3.3541</b>	<b>0.8425</b>	<b>4.1966</b>		<b>1,995.6114</b>	<b>1,995.6114</b>	<b>0.6454</b>		<b>2,011.7470</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	0.0430	0.0252	0.3406	7.9000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222		79.8825	79.8825	2.5800e-003	2.3300e-003	80.6401
<b>Total</b>	<b>0.0430</b>	<b>0.0252</b>	<b>0.3406</b>	<b>7.9000e-004</b>	<b>0.0822</b>	<b>4.4000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.1000e-004</b>	<b>0.0222</b>		<b>79.8825</b>	<b>79.8825</b>	<b>2.5800e-003</b>	<b>2.3300e-003</b>	<b>80.6401</b>

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**3.3 Grading - 2021**

**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					2.5072	0.0000	2.5072	1.3081	0.0000	1.3081			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425	0.0000	1,995.611 4	1,995.611 4	0.6454		2,011.747 0
<b>Total</b>	<b>1.8271</b>	<b>20.2135</b>	<b>9.7604</b>	<b>0.0206</b>	<b>2.5072</b>	<b>0.9158</b>	<b>3.4229</b>	<b>1.3081</b>	<b>0.8425</b>	<b>2.1506</b>	<b>0.0000</b>	<b>1,995.611 4</b>	<b>1,995.611 4</b>	<b>0.6454</b>		<b>2,011.747 0</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	0.0430	0.0252	0.3406	7.9000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222		79.8825	79.8825	2.5800e-003	2.3300e-003	80.6401
<b>Total</b>	<b>0.0430</b>	<b>0.0252</b>	<b>0.3406</b>	<b>7.9000e-004</b>	<b>0.0822</b>	<b>4.4000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.1000e-004</b>	<b>0.0222</b>		<b>79.8825</b>	<b>79.8825</b>	<b>2.5800e-003</b>	<b>2.3300e-003</b>	<b>80.6401</b>

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

**3.4 Building Construction - 2021**

**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	0.6110	5.6198	6.4018	0.0102		0.3248	0.3248		0.3122	0.3122		978.2366	978.2366	0.1467		981.9034
<b>Total</b>	<b>0.6110</b>	<b>5.6198</b>	<b>6.4018</b>	<b>0.0102</b>		<b>0.3248</b>	<b>0.3248</b>		<b>0.3122</b>	<b>0.3122</b>		<b>978.2366</b>	<b>978.2366</b>	<b>0.1467</b>		<b>981.9034</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	0.0383	0.7678	0.3291	3.3200e-003	0.1085	0.0152	0.1238	0.0313	0.0146	0.0458		349.5150	349.5150	2.1700e-003	0.0479	363.8502
Worker	0.1764	0.1034	1.3966	3.2400e-003	0.3368	1.8100e-003	0.3386	0.0893	1.6700e-003	0.0910		327.5183	327.5183	0.0106	9.5400e-003	330.6245
<b>Total</b>	<b>0.2147</b>	<b>0.8712</b>	<b>1.7257</b>	<b>6.5600e-003</b>	<b>0.4453</b>	<b>0.0171</b>	<b>0.4624</b>	<b>0.1206</b>	<b>0.0163</b>	<b>0.1369</b>		<b>677.0332</b>	<b>677.0332</b>	<b>0.0127</b>	<b>0.0575</b>	<b>694.4747</b>

PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Summer

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

**3.4 Building Construction - 2021**

**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	0.6110	5.6198	6.4018	0.0102		0.3248	0.3248		0.3122	0.3122	0.0000	978.2366	978.2366	0.1467		981.9034
<b>Total</b>	<b>0.6110</b>	<b>5.6198</b>	<b>6.4018</b>	<b>0.0102</b>		<b>0.3248</b>	<b>0.3248</b>		<b>0.3122</b>	<b>0.3122</b>	<b>0.0000</b>	<b>978.2366</b>	<b>978.2366</b>	<b>0.1467</b>		<b>981.9034</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	0.0383	0.7678	0.3291	3.3200e-003	0.1085	0.0152	0.1238	0.0313	0.0146	0.0458		349.5150	349.5150	2.1700e-003	0.0479	363.8502
Worker	0.1764	0.1034	1.3966	3.2400e-003	0.3368	1.8100e-003	0.3386	0.0893	1.6700e-003	0.0910		327.5183	327.5183	0.0106	9.5400e-003	330.6245
<b>Total</b>	<b>0.2147</b>	<b>0.8712</b>	<b>1.7257</b>	<b>6.5600e-003</b>	<b>0.4453</b>	<b>0.0171</b>	<b>0.4624</b>	<b>0.1206</b>	<b>0.0163</b>	<b>0.1369</b>		<b>677.0332</b>	<b>677.0332</b>	<b>0.0127</b>	<b>0.0575</b>	<b>694.4747</b>

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

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5529	5.1080	6.3639	0.0103		0.2756	0.2756		0.2653	0.2653		978.4908	978.4908	0.1446		982.1048
<b>Total</b>	<b>0.5529</b>	<b>5.1080</b>	<b>6.3639</b>	<b>0.0103</b>		<b>0.2756</b>	<b>0.2756</b>		<b>0.2653</b>	<b>0.2653</b>		<b>978.4908</b>	<b>978.4908</b>	<b>0.1446</b>		<b>982.1048</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	0.0302	0.6537	0.2972	3.2600e-003	0.1085	9.1300e-003	0.1177	0.0313	8.7400e-003	0.0400		342.3168	342.3168	1.7600e-003	0.0468	356.3053
Worker	0.1624	0.0907	1.2694	3.1400e-003	0.3368	1.6900e-003	0.3385	0.0893	1.5600e-003	0.0909		317.2420	317.2420	9.4700e-003	8.7500e-003	320.0864
<b>Total</b>	<b>0.1925</b>	<b>0.7444</b>	<b>1.5665</b>	<b>6.4000e-003</b>	<b>0.4453</b>	<b>0.0108</b>	<b>0.4562</b>	<b>0.1206</b>	<b>0.0103</b>	<b>0.1309</b>		<b>659.5588</b>	<b>659.5588</b>	<b>0.0112</b>	<b>0.0555</b>	<b>676.3917</b>

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

**3.4 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5529	5.1080	6.3639	0.0103		0.2756	0.2756		0.2653	0.2653	0.0000	978.4908	978.4908	0.1446		982.1048
<b>Total</b>	<b>0.5529</b>	<b>5.1080</b>	<b>6.3639</b>	<b>0.0103</b>		<b>0.2756</b>	<b>0.2756</b>		<b>0.2653</b>	<b>0.2653</b>	<b>0.0000</b>	<b>978.4908</b>	<b>978.4908</b>	<b>0.1446</b>		<b>982.1048</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	0.0302	0.6537	0.2972	3.2600e-003	0.1085	9.1300e-003	0.1177	0.0313	8.7400e-003	0.0400		342.3168	342.3168	1.7600e-003	0.0468	356.3053
Worker	0.1624	0.0907	1.2694	3.1400e-003	0.3368	1.6900e-003	0.3385	0.0893	1.5600e-003	0.0909		317.2420	317.2420	9.4700e-003	8.7500e-003	320.0864
<b>Total</b>	<b>0.1925</b>	<b>0.7444</b>	<b>1.5665</b>	<b>6.4000e-003</b>	<b>0.4453</b>	<b>0.0108</b>	<b>0.4562</b>	<b>0.1206</b>	<b>0.0103</b>	<b>0.1309</b>		<b>659.5588</b>	<b>659.5588</b>	<b>0.0112</b>	<b>0.0555</b>	<b>676.3917</b>

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

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5378	6.0220	4.9564	9.0400e-003		0.2729	0.2729		0.2511	0.2511		874.9656	874.9656	0.2830		882.0401
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5378</b>	<b>6.0220</b>	<b>4.9564</b>	<b>9.0400e-003</b>		<b>0.2729</b>	<b>0.2729</b>		<b>0.2511</b>	<b>0.2511</b>		<b>874.9656</b>	<b>874.9656</b>	<b>0.2830</b>		<b>882.0401</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	0.0317	0.0177	0.2477	6.1000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.0000e-004	0.0177		61.9009	61.9009	1.8500e-003	1.7100e-003	62.4559
<b>Total</b>	<b>0.0317</b>	<b>0.0177</b>	<b>0.2477</b>	<b>6.1000e-004</b>	<b>0.0657</b>	<b>3.3000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.0000e-004</b>	<b>0.0177</b>		<b>61.9009</b>	<b>61.9009</b>	<b>1.8500e-003</b>	<b>1.7100e-003</b>	<b>62.4559</b>



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

**3.5 Paving - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5378	6.0220	4.9564	9.0400e-003		0.2729	0.2729		0.2511	0.2511	0.0000	874.9656	874.9656	0.2830		882.0401
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5378</b>	<b>6.0220</b>	<b>4.9564</b>	<b>9.0400e-003</b>		<b>0.2729</b>	<b>0.2729</b>		<b>0.2511</b>	<b>0.2511</b>	<b>0.0000</b>	<b>874.9656</b>	<b>874.9656</b>	<b>0.2830</b>		<b>882.0401</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	0.0317	0.0177	0.2477	6.1000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.0000e-004	0.0177		61.9009	61.9009	1.8500e-003	1.7100e-003	62.4559
<b>Total</b>	<b>0.0317</b>	<b>0.0177</b>	<b>0.2477</b>	<b>6.1000e-004</b>	<b>0.0657</b>	<b>3.3000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.0000e-004</b>	<b>0.0177</b>		<b>61.9009</b>	<b>61.9009</b>	<b>1.8500e-003</b>	<b>1.7100e-003</b>	<b>62.4559</b>

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

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.1982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>39.4027</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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	0.0317	0.0177	0.2477	6.1000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.0000e-004	0.0177		61.9009	61.9009	1.8500e-003	1.7100e-003	62.4559
<b>Total</b>	<b>0.0317</b>	<b>0.0177</b>	<b>0.2477</b>	<b>6.1000e-004</b>	<b>0.0657</b>	<b>3.3000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.0000e-004</b>	<b>0.0177</b>		<b>61.9009</b>	<b>61.9009</b>	<b>1.8500e-003</b>	<b>1.7100e-003</b>	<b>62.4559</b>

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

**3.6 Architectural Coating - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.1982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>39.4027</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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	0.0317	0.0177	0.2477	6.1000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.0000e-004	0.0177		61.9009	61.9009	1.8500e-003	1.7100e-003	62.4559
<b>Total</b>	<b>0.0317</b>	<b>0.0177</b>	<b>0.2477</b>	<b>6.1000e-004</b>	<b>0.0657</b>	<b>3.3000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.0000e-004</b>	<b>0.0177</b>		<b>61.9009</b>	<b>61.9009</b>	<b>1.8500e-003</b>	<b>1.7100e-003</b>	<b>62.4559</b>

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2381	0.2717	1.7702	3.3700e-003	0.3080	3.1100e-003	0.3111	0.0821	2.9200e-003	0.0850		342.7797	342.7797	0.0207	0.0183	348.7422
Unmitigated	0.2381	0.2717	1.7702	3.3700e-003	0.3080	3.1100e-003	0.3111	0.0821	2.9200e-003	0.0850		342.7797	342.7797	0.0207	0.0183	348.7422

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	34.44	7.81	2.48	62,302	62,302
Motel	33.50	33.50	33.50	63,575	63,575
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>67.94</b>	<b>41.31</b>	<b>35.98</b>	<b>125,877</b>	<b>125,877</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Motel	9.50	7.30	7.30	19.00	62.00	19.00	58	38	4
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Summer

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.522706	0.056540	0.174672	0.143027	0.031214	0.007930	0.006101	0.021782	0.000496	0.000161	0.028412	0.000923	0.006036
Motel	0.522706	0.056540	0.174672	0.143027	0.031214	0.007930	0.006101	0.021782	0.000496	0.000161	0.028412	0.000923	0.006036
Other Non-Asphalt Surfaces	0.522706	0.056540	0.174672	0.143027	0.031214	0.007930	0.006101	0.021782	0.000496	0.000161	0.028412	0.000923	0.006036

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0194	0.1764	0.1482	1.0600e-003		0.0134	0.0134		0.0134	0.0134		211.6599	211.6599	4.0600e-003	3.8800e-003	212.9177
NaturalGas Unmitigated	0.0194	0.1764	0.1482	1.0600e-003		0.0134	0.0134		0.0134	0.0134		211.6599	211.6599	4.0600e-003	3.8800e-003	212.9177

PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Summer

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

**5.2 Energy by Land Use - 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					
General Office Building	33.2287	3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9093	3.9093	7.0000e-005	7.0000e-005	3.9325
Motel	1765.88	0.0190	0.1731	0.1454	1.0400e-003		0.0132	0.0132		0.0132	0.0132		207.7507	207.7507	3.9800e-003	3.8100e-003	208.9852
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0194</b>	<b>0.1764</b>	<b>0.1482</b>	<b>1.0600e-003</b>		<b>0.0134</b>	<b>0.0134</b>		<b>0.0134</b>	<b>0.0134</b>		<b>211.6599</b>	<b>211.6599</b>	<b>4.0500e-003</b>	<b>3.8800e-003</b>	<b>212.9177</b>

PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Summer

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

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.0332287	3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9093	3.9093	7.0000e-005	7.0000e-005	3.9325
Motel	1.76588	0.0190	0.1731	0.1454	1.0400e-003		0.0132	0.0132		0.0132	0.0132		207.7507	207.7507	3.9800e-003	3.8100e-003	208.9852
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0194</b>	<b>0.1764</b>	<b>0.1482</b>	<b>1.0600e-003</b>		<b>0.0134</b>	<b>0.0134</b>		<b>0.0134</b>	<b>0.0134</b>		<b>211.6599</b>	<b>211.6599</b>	<b>4.0500e-003</b>	<b>3.8800e-003</b>	<b>212.9177</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4459	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0215	0.0215	6.0000e-005		0.0229
Unmitigated	0.4459	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0215	0.0215	6.0000e-005		0.0229

**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	0.1074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3376					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.3000e-004	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0215	0.0215	6.0000e-005		0.0229
<b>Total</b>	<b>0.4459</b>	<b>9.0000e-005</b>	<b>0.0100</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0215</b>	<b>0.0215</b>	<b>6.0000e-005</b>		<b>0.0229</b>



PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3376					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.3000e-004	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0215	0.0215	6.0000e-005		0.0229
<b>Total</b>	<b>0.4459</b>	<b>9.0000e-005</b>	<b>0.0100</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0215</b>	<b>0.0215</b>	<b>6.0000e-005</b>		<b>0.0229</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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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PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Winter

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

**PROJ - 2020-00203 Bubble Camp  
Mojave Desert AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Motel	10.00	Room	0.24	10,840.00	0
General Office Building	3.54	1000sqft	0.08	3,536.00	0
Other Non-Asphalt Surfaces	84.59	1000sqft	1.94	84,593.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	10	<b>Operational Year</b>		2022	
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use - Land use per site plan - motel picked as bubble camp site model to best determine worst-case emissions. Gen Office Bldg includes sf for office and garage.

Construction Phase -

Off-road Equipment - Removed Welders and crane from Bldg Construction default equipment and lowered forklifts from 3 to 1 due to this project not being a complete construction of 10 motel rooms and only construction on the office, garage, platforms, and minor facilities.

Off-road Equipment - Removed equipment associated with asphalt type paving, decreased rollers from 2 to 1 and added a grader as drives will be 85% compacted native soil or gravel per site plans.

Grading - Lowered default total acres graded to amounts indicated in site plan for structure, campsites, and driveways.

Water And Wastewater - Operational Water Use decreased to 0 as site is for camping and no irrigation of landscaping will be necessary.

Construction Off-road Equipment Mitigation -

PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Winter

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblGrading	AcresOfGrading	6.00	2.30
tblGrading	AcresOfGrading	4.50	2.30
tblLandUse	LandUseSquareFeet	19,602.00	10,840.00
tblLandUse	LotAcreage	0.45	0.24
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblWater	OutdoorWaterUseRate	385,624.90	0.00
tblWater	OutdoorWaterUseRate	28,185.30	0.00

**2.0 Emissions Summary**

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PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2021	1.8657	20.2395	10.9660	0.0251	6.5108	0.9162	7.4270	3.3759	0.8429	4.2188	0.0000	2,429.622 4	2,429.622 4	0.7695	0.0578	2,449.424 6
2022	39.4313	6.0402	7.6840	0.0163	0.4453	0.2865	0.7318	0.1206	0.2757	0.3963	0.0000	1,603.136 4	1,603.136 4	0.2849	0.0558	1,623.674 0
<b>Maximum</b>	<b>39.4313</b>	<b>20.2395</b>	<b>10.9660</b>	<b>0.0251</b>	<b>6.5108</b>	<b>0.9162</b>	<b>7.4270</b>	<b>3.3759</b>	<b>0.8429</b>	<b>4.2188</b>	<b>0.0000</b>	<b>2,429.622 4</b>	<b>2,429.622 4</b>	<b>0.7695</b>	<b>0.0578</b>	<b>2,449.424 6</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					
2021	1.8657	20.2395	10.9660	0.0251	2.5893	0.9162	3.5055	1.3299	0.8429	2.1728	0.0000	2,429.622 4	2,429.622 4	0.7695	0.0578	2,449.424 6
2022	39.4313	6.0402	7.6840	0.0163	0.4453	0.2865	0.7318	0.1206	0.2757	0.3963	0.0000	1,603.136 4	1,603.136 4	0.2849	0.0558	1,623.674 0
<b>Maximum</b>	<b>39.4313</b>	<b>20.2395</b>	<b>10.9660</b>	<b>0.0251</b>	<b>2.5893</b>	<b>0.9162</b>	<b>3.5055</b>	<b>1.3299</b>	<b>0.8429</b>	<b>2.1728</b>	<b>0.0000</b>	<b>2,429.622 4</b>	<b>2,429.622 4</b>	<b>0.7695</b>	<b>0.0578</b>	<b>2,449.424 6</b>

## PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	56.37	0.00	48.06	58.52	0.00	44.33	0.00	0.00	0.00	0.00	0.00	0.00

PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.4459	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0215	0.0215	6.0000e-005		0.0229
Energy	0.0194	0.1764	0.1482	1.0600e-003		0.0134	0.0134		0.0134	0.0134		211.6599	211.6599	4.0600e-003	3.8800e-003	212.9177
Mobile	0.1929	0.2871	1.5659	3.0900e-003	0.3080	3.1100e-003	0.3111	0.0821	2.9200e-003	0.0850		314.1724	314.1724	0.0215	0.0187	320.2683
<b>Total</b>	<b>0.6583</b>	<b>0.4635</b>	<b>1.7241</b>	<b>4.1500e-003</b>	<b>0.3080</b>	<b>0.0166</b>	<b>0.3245</b>	<b>0.0821</b>	<b>0.0164</b>	<b>0.0985</b>		<b>525.8538</b>	<b>525.8538</b>	<b>0.0257</b>	<b>0.0225</b>	<b>533.2089</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	0.4459	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0215	0.0215	6.0000e-005		0.0229
Energy	0.0194	0.1764	0.1482	1.0600e-003		0.0134	0.0134		0.0134	0.0134		211.6599	211.6599	4.0600e-003	3.8800e-003	212.9177
Mobile	0.1929	0.2871	1.5659	3.0900e-003	0.3080	3.1100e-003	0.3111	0.0821	2.9200e-003	0.0850		314.1724	314.1724	0.0215	0.0187	320.2683
<b>Total</b>	<b>0.6583</b>	<b>0.4635</b>	<b>1.7241</b>	<b>4.1500e-003</b>	<b>0.3080</b>	<b>0.0166</b>	<b>0.3245</b>	<b>0.0821</b>	<b>0.0164</b>	<b>0.0985</b>		<b>525.8538</b>	<b>525.8538</b>	<b>0.0257</b>	<b>0.0225</b>	<b>533.2089</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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

**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	10/9/2021	10/13/2021	5	3	
2	Grading	Grading	10/14/2021	10/21/2021	5	6	
3	Building Construction	Building Construction	10/22/2021	8/25/2022	5	220	
4	Paving	Paving	8/26/2022	9/8/2022	5	10	
5	Architectural Coating	Architectural Coating	9/9/2022	9/22/2022	5	10	

**Acres of Grading (Site Preparation Phase): 2.3**

**Acres of Grading (Grading Phase): 2.3**

**Acres of Paving: 1.94**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 21,564; Non-Residential Outdoor: 7,188; Striped Parking Area: 5,076 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Graders	1	4.00	187	0.41
Building Construction	Forklifts	1	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41



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

Paving	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37

**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	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	41.00	16.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Winter

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

**3.2 Site Preparation - 2021**

**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					0.8131	0.0000	0.8131	0.0878	0.0000	0.0878			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457		2,372.883 2	2,372.883 2	0.7674		2,392.069 2
<b>Total</b>	<b>1.5463</b>	<b>18.2862</b>	<b>10.7496</b>	<b>0.0245</b>	<b>0.8131</b>	<b>0.7019</b>	<b>1.5149</b>	<b>0.0878</b>	<b>0.6457</b>	<b>0.7335</b>		<b>2,372.883 2</b>	<b>2,372.883 2</b>	<b>0.7674</b>		<b>2,392.069 2</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	0.0309	0.0208	0.2164	5.6000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		56.7392	56.7392	2.0900e-003	1.8900e-003	57.3554
<b>Total</b>	<b>0.0309</b>	<b>0.0208</b>	<b>0.2164</b>	<b>5.6000e-004</b>	<b>0.0657</b>	<b>3.5000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.3000e-004</b>	<b>0.0178</b>		<b>56.7392</b>	<b>56.7392</b>	<b>2.0900e-003</b>	<b>1.8900e-003</b>	<b>57.3554</b>

PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Winter

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

**3.2 Site Preparation - 2021**

**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					0.3171	0.0000	0.3171	0.0342	0.0000	0.0342			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457	0.0000	2,372.883 2	2,372.883 2	0.7674		2,392.069 2
<b>Total</b>	<b>1.5463</b>	<b>18.2862</b>	<b>10.7496</b>	<b>0.0245</b>	<b>0.3171</b>	<b>0.7019</b>	<b>1.0190</b>	<b>0.0342</b>	<b>0.6457</b>	<b>0.6800</b>	<b>0.0000</b>	<b>2,372.883 2</b>	<b>2,372.883 2</b>	<b>0.7674</b>		<b>2,392.069 2</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	0.0309	0.0208	0.2164	5.6000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		56.7392	56.7392	2.0900e-003	1.8900e-003	57.3554
<b>Total</b>	<b>0.0309</b>	<b>0.0208</b>	<b>0.2164</b>	<b>5.6000e-004</b>	<b>0.0657</b>	<b>3.5000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.3000e-004</b>	<b>0.0178</b>		<b>56.7392</b>	<b>56.7392</b>	<b>2.0900e-003</b>	<b>1.8900e-003</b>	<b>57.3554</b>

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

**3.3 Grading - 2021**

**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					6.4286	0.0000	6.4286	3.3541	0.0000	3.3541			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
<b>Total</b>	<b>1.8271</b>	<b>20.2135</b>	<b>9.7604</b>	<b>0.0206</b>	<b>6.4286</b>	<b>0.9158</b>	<b>7.3444</b>	<b>3.3541</b>	<b>0.8425</b>	<b>4.1966</b>		<b>1,995.6114</b>	<b>1,995.6114</b>	<b>0.6454</b>		<b>2,011.7470</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	0.0386	0.0259	0.2706	7.0000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222		70.9240	70.9240	2.6100e-003	2.3700e-003	71.6943
<b>Total</b>	<b>0.0386</b>	<b>0.0259</b>	<b>0.2706</b>	<b>7.0000e-004</b>	<b>0.0822</b>	<b>4.4000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.1000e-004</b>	<b>0.0222</b>		<b>70.9240</b>	<b>70.9240</b>	<b>2.6100e-003</b>	<b>2.3700e-003</b>	<b>71.6943</b>

PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Winter

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

**3.3 Grading - 2021**

**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					2.5072	0.0000	2.5072	1.3081	0.0000	1.3081			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425	0.0000	1,995.611 4	1,995.611 4	0.6454		2,011.747 0
<b>Total</b>	<b>1.8271</b>	<b>20.2135</b>	<b>9.7604</b>	<b>0.0206</b>	<b>2.5072</b>	<b>0.9158</b>	<b>3.4229</b>	<b>1.3081</b>	<b>0.8425</b>	<b>2.1506</b>	<b>0.0000</b>	<b>1,995.611 4</b>	<b>1,995.611 4</b>	<b>0.6454</b>		<b>2,011.747 0</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	0.0386	0.0259	0.2706	7.0000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222		70.9240	70.9240	2.6100e-003	2.3700e-003	71.6943
<b>Total</b>	<b>0.0386</b>	<b>0.0259</b>	<b>0.2706</b>	<b>7.0000e-004</b>	<b>0.0822</b>	<b>4.4000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.1000e-004</b>	<b>0.0222</b>		<b>70.9240</b>	<b>70.9240</b>	<b>2.6100e-003</b>	<b>2.3700e-003</b>	<b>71.6943</b>

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

**3.4 Building Construction - 2021**

**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	0.6110	5.6198	6.4018	0.0102		0.3248	0.3248		0.3122	0.3122		978.2366	978.2366	0.1467		981.9034
<b>Total</b>	<b>0.6110</b>	<b>5.6198</b>	<b>6.4018</b>	<b>0.0102</b>		<b>0.3248</b>	<b>0.3248</b>		<b>0.3122</b>	<b>0.3122</b>		<b>978.2366</b>	<b>978.2366</b>	<b>0.1467</b>		<b>981.9034</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	0.0370	0.8098	0.3405	3.3300e-003	0.1085	0.0153	0.1238	0.0313	0.0146	0.0459		349.9358	349.9358	2.1100e-003	0.0481	364.3101
Worker	0.1584	0.1063	1.1093	2.8800e-003	0.3368	1.8100e-003	0.3386	0.0893	1.6700e-003	0.0910		290.7885	290.7885	0.0107	9.7000e-003	293.9465
<b>Total</b>	<b>0.1954</b>	<b>0.9162</b>	<b>1.4497</b>	<b>6.2100e-003</b>	<b>0.4453</b>	<b>0.0171</b>	<b>0.4624</b>	<b>0.1206</b>	<b>0.0163</b>	<b>0.1369</b>		<b>640.7243</b>	<b>640.7243</b>	<b>0.0128</b>	<b>0.0578</b>	<b>658.2565</b>

PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Winter

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

**3.4 Building Construction - 2021**

**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	0.6110	5.6198	6.4018	0.0102		0.3248	0.3248		0.3122	0.3122	0.0000	978.2366	978.2366	0.1467		981.9034
<b>Total</b>	<b>0.6110</b>	<b>5.6198</b>	<b>6.4018</b>	<b>0.0102</b>		<b>0.3248</b>	<b>0.3248</b>		<b>0.3122</b>	<b>0.3122</b>	<b>0.0000</b>	<b>978.2366</b>	<b>978.2366</b>	<b>0.1467</b>		<b>981.9034</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	0.0370	0.8098	0.3405	3.3300e-003	0.1085	0.0153	0.1238	0.0313	0.0146	0.0459		349.9358	349.9358	2.1100e-003	0.0481	364.3101
Worker	0.1584	0.1063	1.1093	2.8800e-003	0.3368	1.8100e-003	0.3386	0.0893	1.6700e-003	0.0910		290.7885	290.7885	0.0107	9.7000e-003	293.9465
<b>Total</b>	<b>0.1954</b>	<b>0.9162</b>	<b>1.4497</b>	<b>6.2100e-003</b>	<b>0.4453</b>	<b>0.0171</b>	<b>0.4624</b>	<b>0.1206</b>	<b>0.0163</b>	<b>0.1369</b>		<b>640.7243</b>	<b>640.7243</b>	<b>0.0128</b>	<b>0.0578</b>	<b>658.2565</b>

PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Winter

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

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5529	5.1080	6.3639	0.0103		0.2756	0.2756		0.2653	0.2653		978.4908	978.4908	0.1446		982.1048
<b>Total</b>	<b>0.5529</b>	<b>5.1080</b>	<b>6.3639</b>	<b>0.0103</b>		<b>0.2756</b>	<b>0.2756</b>		<b>0.2653</b>	<b>0.2653</b>		<b>978.4908</b>	<b>978.4908</b>	<b>0.1446</b>		<b>982.1048</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	0.0288	0.6913	0.3083	3.2600e-003	0.1085	9.1600e-003	0.1177	0.0313	8.7600e-003	0.0400		342.8701	342.8701	1.6900e-003	0.0469	356.9012
Worker	0.1461	0.0933	1.0117	2.7900e-003	0.3368	1.6900e-003	0.3385	0.0893	1.5600e-003	0.0909		281.7756	281.7756	9.6200e-003	8.9000e-003	284.6680
<b>Total</b>	<b>0.1749</b>	<b>0.7846</b>	<b>1.3201</b>	<b>6.0500e-003</b>	<b>0.4453</b>	<b>0.0109</b>	<b>0.4562</b>	<b>0.1206</b>	<b>0.0103</b>	<b>0.1309</b>		<b>624.6457</b>	<b>624.6457</b>	<b>0.0113</b>	<b>0.0558</b>	<b>641.5692</b>



PROJ - 2020-00203 Bubble Camp - Mojave Desert AQMD Air District, Winter

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

**3.4 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5529	5.1080	6.3639	0.0103		0.2756	0.2756		0.2653	0.2653	0.0000	978.4908	978.4908	0.1446		982.1048
<b>Total</b>	<b>0.5529</b>	<b>5.1080</b>	<b>6.3639</b>	<b>0.0103</b>		<b>0.2756</b>	<b>0.2756</b>		<b>0.2653</b>	<b>0.2653</b>	<b>0.0000</b>	<b>978.4908</b>	<b>978.4908</b>	<b>0.1446</b>		<b>982.1048</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	0.0288	0.6913	0.3083	3.2600e-003	0.1085	9.1600e-003	0.1177	0.0313	8.7600e-003	0.0400		342.8701	342.8701	1.6900e-003	0.0469	356.9012
Worker	0.1461	0.0933	1.0117	2.7900e-003	0.3368	1.6900e-003	0.3385	0.0893	1.5600e-003	0.0909		281.7756	281.7756	9.6200e-003	8.9000e-003	284.6680
<b>Total</b>	<b>0.1749</b>	<b>0.7846</b>	<b>1.3201</b>	<b>6.0500e-003</b>	<b>0.4453</b>	<b>0.0109</b>	<b>0.4562</b>	<b>0.1206</b>	<b>0.0103</b>	<b>0.1309</b>		<b>624.6457</b>	<b>624.6457</b>	<b>0.0113</b>	<b>0.0558</b>	<b>641.5692</b>

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

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5378	6.0220	4.9564	9.0400e-003		0.2729	0.2729		0.2511	0.2511		874.9656	874.9656	0.2830		882.0401
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5378</b>	<b>6.0220</b>	<b>4.9564</b>	<b>9.0400e-003</b>		<b>0.2729</b>	<b>0.2729</b>		<b>0.2511</b>	<b>0.2511</b>		<b>874.9656</b>	<b>874.9656</b>	<b>0.2830</b>		<b>882.0401</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	0.0285	0.0182	0.1974	5.4000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.0000e-004	0.0177		54.9806	54.9806	1.8800e-003	1.7400e-003	55.5450
<b>Total</b>	<b>0.0285</b>	<b>0.0182</b>	<b>0.1974</b>	<b>5.4000e-004</b>	<b>0.0657</b>	<b>3.3000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.0000e-004</b>	<b>0.0177</b>		<b>54.9806</b>	<b>54.9806</b>	<b>1.8800e-003</b>	<b>1.7400e-003</b>	<b>55.5450</b>

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

**3.5 Paving - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5378	6.0220	4.9564	9.0400e-003		0.2729	0.2729		0.2511	0.2511	0.0000	874.9656	874.9656	0.2830		882.0401
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5378</b>	<b>6.0220</b>	<b>4.9564</b>	<b>9.0400e-003</b>		<b>0.2729</b>	<b>0.2729</b>		<b>0.2511</b>	<b>0.2511</b>	<b>0.0000</b>	<b>874.9656</b>	<b>874.9656</b>	<b>0.2830</b>		<b>882.0401</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	0.0285	0.0182	0.1974	5.4000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.0000e-004	0.0177		54.9806	54.9806	1.8800e-003	1.7400e-003	55.5450
<b>Total</b>	<b>0.0285</b>	<b>0.0182</b>	<b>0.1974</b>	<b>5.4000e-004</b>	<b>0.0657</b>	<b>3.3000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.0000e-004</b>	<b>0.0177</b>		<b>54.9806</b>	<b>54.9806</b>	<b>1.8800e-003</b>	<b>1.7400e-003</b>	<b>55.5450</b>

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

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.1982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>39.4027</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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	0.0285	0.0182	0.1974	5.4000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.0000e-004	0.0177		54.9806	54.9806	1.8800e-003	1.7400e-003	55.5450
<b>Total</b>	<b>0.0285</b>	<b>0.0182</b>	<b>0.1974</b>	<b>5.4000e-004</b>	<b>0.0657</b>	<b>3.3000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.0000e-004</b>	<b>0.0177</b>		<b>54.9806</b>	<b>54.9806</b>	<b>1.8800e-003</b>	<b>1.7400e-003</b>	<b>55.5450</b>

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

**3.6 Architectural Coating - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.1982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>39.4027</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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	0.0285	0.0182	0.1974	5.4000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.0000e-004	0.0177		54.9806	54.9806	1.8800e-003	1.7400e-003	55.5450
<b>Total</b>	<b>0.0285</b>	<b>0.0182</b>	<b>0.1974</b>	<b>5.4000e-004</b>	<b>0.0657</b>	<b>3.3000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.0000e-004</b>	<b>0.0177</b>		<b>54.9806</b>	<b>54.9806</b>	<b>1.8800e-003</b>	<b>1.7400e-003</b>	<b>55.5450</b>

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1929	0.2871	1.5659	3.0900e-003	0.3080	3.1100e-003	0.3111	0.0821	2.9200e-003	0.0850		314.1724	314.1724	0.0215	0.0187	320.2683
Unmitigated	0.1929	0.2871	1.5659	3.0900e-003	0.3080	3.1100e-003	0.3111	0.0821	2.9200e-003	0.0850		314.1724	314.1724	0.0215	0.0187	320.2683

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	34.44	7.81	2.48	62,302	62,302
Motel	33.50	33.50	33.50	63,575	63,575
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>67.94</b>	<b>41.31</b>	<b>35.98</b>	<b>125,877</b>	<b>125,877</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Motel	9.50	7.30	7.30	19.00	62.00	19.00	58	38	4
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.522706	0.056540	0.174672	0.143027	0.031214	0.007930	0.006101	0.021782	0.000496	0.000161	0.028412	0.000923	0.006036
Motel	0.522706	0.056540	0.174672	0.143027	0.031214	0.007930	0.006101	0.021782	0.000496	0.000161	0.028412	0.000923	0.006036
Other Non-Asphalt Surfaces	0.522706	0.056540	0.174672	0.143027	0.031214	0.007930	0.006101	0.021782	0.000496	0.000161	0.028412	0.000923	0.006036

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0194	0.1764	0.1482	1.0600e-003		0.0134	0.0134		0.0134	0.0134		211.6599	211.6599	4.0600e-003	3.8800e-003	212.9177
NaturalGas Unmitigated	0.0194	0.1764	0.1482	1.0600e-003		0.0134	0.0134		0.0134	0.0134		211.6599	211.6599	4.0600e-003	3.8800e-003	212.9177

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

**5.2 Energy by Land Use - 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					
General Office Building	33.2287	3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9093	3.9093	7.0000e-005	7.0000e-005	3.9325
Motel	1765.88	0.0190	0.1731	0.1454	1.0400e-003		0.0132	0.0132		0.0132	0.0132		207.7507	207.7507	3.9800e-003	3.8100e-003	208.9852
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0194</b>	<b>0.1764</b>	<b>0.1482</b>	<b>1.0600e-003</b>		<b>0.0134</b>	<b>0.0134</b>		<b>0.0134</b>	<b>0.0134</b>		<b>211.6599</b>	<b>211.6599</b>	<b>4.0500e-003</b>	<b>3.8800e-003</b>	<b>212.9177</b>



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

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.0332287	3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9093	3.9093	7.0000e-005	7.0000e-005	3.9325
Motel	1.76588	0.0190	0.1731	0.1454	1.0400e-003		0.0132	0.0132		0.0132	0.0132		207.7507	207.7507	3.9800e-003	3.8100e-003	208.9852
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0194</b>	<b>0.1764</b>	<b>0.1482</b>	<b>1.0600e-003</b>		<b>0.0134</b>	<b>0.0134</b>		<b>0.0134</b>	<b>0.0134</b>		<b>211.6599</b>	<b>211.6599</b>	<b>4.0500e-003</b>	<b>3.8800e-003</b>	<b>212.9177</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4459	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0215	0.0215	6.0000e-005		0.0229
Unmitigated	0.4459	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0215	0.0215	6.0000e-005		0.0229

**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	0.1074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3376					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.3000e-004	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0215	0.0215	6.0000e-005		0.0229
<b>Total</b>	<b>0.4459</b>	<b>9.0000e-005</b>	<b>0.0100</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0215</b>	<b>0.0215</b>	<b>6.0000e-005</b>		<b>0.0229</b>

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3376					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.3000e-004	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0215	0.0215	6.0000e-005		0.0229
<b>Total</b>	<b>0.4459</b>	<b>9.0000e-005</b>	<b>0.0100</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0215</b>	<b>0.0215</b>	<b>6.0000e-005</b>		<b>0.0229</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

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

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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Motel	10.00	Room	0.24	10,840.00	0
General Office Building	3.54	1000sqft	0.08	3,536.00	0
Other Non-Asphalt Surfaces	84.59	1000sqft	1.94	84,593.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	10	<b>Operational Year</b>	2022		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use - Land use per site plan - motel picked as bubble camp site model to best determine worst-case emissions. Gen Office Bldg includes sf for office and garage.

Construction Phase -

Off-road Equipment - Removed Welders and crane from Bldg Construction default equipment and lowered forklifts from 3 to 1 due to this project not being a complete construction of 10 motel rooms and only construction on the office, garage, platforms, and minor facilities.

Off-road Equipment - Removed equipment associated with asphalt type paving, decreased rollers from 2 to 1 and added a grader as drives will be 85% compacted native soil or gravel per site plans.

Grading - Lowered default total acres graded to amounts indicated in site plan for structure, campsites, and driveways.

Water And Wastewater - Operational Water Use decreased to 0 as site is for camping and no irrigation of landscaping will be necessary.

Construction Off-road Equipment Mitigation -

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblGrading	AcresOfGrading	6.00	2.30
tblGrading	AcresOfGrading	4.50	2.30
tblLandUse	LandUseSquareFeet	19,602.00	10,840.00
tblLandUse	LotAcreage	0.45	0.24
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblWater	OutdoorWaterUseRate	385,624.90	0.00
tblWater	OutdoorWaterUseRate	28,185.30	0.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2021	0.0283	0.2551	0.2487	5.2000e-004	0.0320	0.0125	0.0445	0.0133	0.0119	0.0252	0.0000	46.5751	46.5751	6.5100e-003	1.3600e-003	47.1416
2022	0.2607	0.5357	0.6910	1.4500e-003	0.0376	0.0260	0.0636	0.0102	0.0250	0.0352	0.0000	129.2365	129.2365	0.0134	4.3200e-003	130.8590
<b>Maximum</b>	<b>0.2607</b>	<b>0.5357</b>	<b>0.6910</b>	<b>1.4500e-003</b>	<b>0.0376</b>	<b>0.0260</b>	<b>0.0636</b>	<b>0.0133</b>	<b>0.0250</b>	<b>0.0352</b>	<b>0.0000</b>	<b>129.2365</b>	<b>129.2365</b>	<b>0.0134</b>	<b>4.3200e-003</b>	<b>130.8590</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					
2021	0.0283	0.2551	0.2487	5.2000e-004	0.0195	0.0125	0.0320	7.0900e-003	0.0119	0.0190	0.0000	46.5751	46.5751	6.5100e-003	1.3600e-003	47.1416
2022	0.2607	0.5357	0.6910	1.4500e-003	0.0376	0.0260	0.0636	0.0102	0.0250	0.0352	0.0000	129.2364	129.2364	0.0134	4.3200e-003	130.8589
<b>Maximum</b>	<b>0.2607</b>	<b>0.5357</b>	<b>0.6910</b>	<b>1.4500e-003</b>	<b>0.0376</b>	<b>0.0260</b>	<b>0.0636</b>	<b>0.0102</b>	<b>0.0250</b>	<b>0.0352</b>	<b>0.0000</b>	<b>129.2364</b>	<b>129.2364</b>	<b>0.0134</b>	<b>4.3200e-003</b>	<b>130.8589</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	17.96	0.00	11.57	26.46	0.00	10.31	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	9-13-2021	12-12-2021	0.2350	0.2350
2	12-13-2021	3-12-2022	0.2177	0.2177
3	3-13-2022	6-12-2022	0.2169	0.2169
4	6-13-2022	9-12-2022	0.2658	0.2658
5	9-13-2022	9-30-2022	0.1459	0.1459
		Highest	0.2658	0.2658

**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	0.0813	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7500e-003	1.7500e-003	0.0000	0.0000	1.8700e-003
Energy	3.5400e-003	0.0322	0.0270	1.9000e-004		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	74.3520	74.3520	3.9900e-003	1.0400e-003	74.7630
Mobile	0.0302	0.0463	0.2616	4.9000e-004	0.0475	4.9000e-004	0.0480	0.0127	4.6000e-004	0.0131	0.0000	45.6597	45.6597	3.1600e-003	2.7200e-003	46.5489
Waste						0.0000	0.0000		0.0000	0.0000	1.7782	0.0000	1.7782	0.1051	0.0000	4.4054
Water						0.0000	0.0000		0.0000	0.0000	0.2801	2.0387	2.3188	0.0289	7.0000e-004	3.2509
<b>Total</b>	<b>0.1151</b>	<b>0.0785</b>	<b>0.2896</b>	<b>6.8000e-004</b>	<b>0.0475</b>	<b>2.9400e-003</b>	<b>0.0505</b>	<b>0.0127</b>	<b>2.9100e-003</b>	<b>0.0156</b>	<b>2.0583</b>	<b>122.0521</b>	<b>124.1104</b>	<b>0.1412</b>	<b>4.4600e-003</b>	<b>128.9701</b>



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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0813	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7500e-003	1.7500e-003	0.0000	0.0000	1.8700e-003
Energy	3.5400e-003	0.0322	0.0270	1.9000e-004		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	74.3520	74.3520	3.9900e-003	1.0400e-003	74.7630
Mobile	0.0302	0.0463	0.2616	4.9000e-004	0.0475	4.9000e-004	0.0480	0.0127	4.6000e-004	0.0131	0.0000	45.6597	45.6597	3.1600e-003	2.7200e-003	46.5489
Waste						0.0000	0.0000		0.0000	0.0000	1.7782	0.0000	1.7782	0.1051	0.0000	4.4054
Water						0.0000	0.0000		0.0000	0.0000	0.2801	2.0387	2.3188	0.0289	7.0000e-004	3.2509
<b>Total</b>	<b>0.1151</b>	<b>0.0785</b>	<b>0.2896</b>	<b>6.8000e-004</b>	<b>0.0475</b>	<b>2.9400e-003</b>	<b>0.0505</b>	<b>0.0127</b>	<b>2.9100e-003</b>	<b>0.0156</b>	<b>2.0583</b>	<b>122.0521</b>	<b>124.1104</b>	<b>0.1412</b>	<b>4.4600e-003</b>	<b>128.9701</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/9/2021	10/13/2021	5	3	
2	Grading	Grading	10/14/2021	10/21/2021	5	6	
3	Building Construction	Building Construction	10/22/2021	8/25/2022	5	220	

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4	Paving	Paving	8/26/2022	9/8/2022	5	10
5	Architectural Coating	Architectural Coating	9/9/2022	9/22/2022	5	10

**Acres of Grading (Site Preparation Phase): 2.3**

**Acres of Grading (Grading Phase): 2.3**

**Acres of Paving: 1.94**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 21,564; Non-Residential Outdoor: 7,188; Striped Parking Area: 5,076 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Graders	1	4.00	187	0.41
Building Construction	Forklifts	1	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37

**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	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	41.00	16.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Site Preparation - 2021**

**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					1.2200e-003	0.0000	1.2200e-003	1.3000e-004	0.0000	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3200e-003	0.0274	0.0161	4.0000e-005		1.0500e-003	1.0500e-003		9.7000e-004	9.7000e-004	0.0000	3.2290	3.2290	1.0400e-003	0.0000	3.2551
<b>Total</b>	<b>2.3200e-003</b>	<b>0.0274</b>	<b>0.0161</b>	<b>4.0000e-005</b>	<b>1.2200e-003</b>	<b>1.0500e-003</b>	<b>2.2700e-003</b>	<b>1.3000e-004</b>	<b>9.7000e-004</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>3.2290</b>	<b>3.2290</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>3.2551</b>

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**3.2 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.5000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0794	0.0794	0.0000	0.0000	0.0803
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0794</b>	<b>0.0794</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0803</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					4.8000e-004	0.0000	4.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3200e-003	0.0274	0.0161	4.0000e-005		1.0500e-003	1.0500e-003		9.7000e-004	9.7000e-004	0.0000	3.2290	3.2290	1.0400e-003	0.0000	3.2551
<b>Total</b>	<b>2.3200e-003</b>	<b>0.0274</b>	<b>0.0161</b>	<b>4.0000e-005</b>	<b>4.8000e-004</b>	<b>1.0500e-003</b>	<b>1.5300e-003</b>	<b>5.0000e-005</b>	<b>9.7000e-004</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>3.2290</b>	<b>3.2290</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>3.2551</b>

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**3.2 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.5000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0794	0.0794	0.0000	0.0000	0.0803
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0794</b>	<b>0.0794</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0803</b>

**3.3 Grading - 2021**

**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					0.0193	0.0000	0.0193	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4800e-003	0.0606	0.0293	6.0000e-005		2.7500e-003	2.7500e-003		2.5300e-003	2.5300e-003	0.0000	5.4312	5.4312	1.7600e-003	0.0000	5.4751
<b>Total</b>	<b>5.4800e-003</b>	<b>0.0606</b>	<b>0.0293</b>	<b>6.0000e-005</b>	<b>0.0193</b>	<b>2.7500e-003</b>	<b>0.0220</b>	<b>0.0101</b>	<b>2.5300e-003</b>	<b>0.0126</b>	<b>0.0000</b>	<b>5.4312</b>	<b>5.4312</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4751</b>

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**3.3 Grading - 2021**

**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	8.0000e-005	8.7000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.1985	0.1985	1.0000e-005	1.0000e-005	0.2007
<b>Total</b>	<b>1.1000e-004</b>	<b>8.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.1985</b>	<b>0.1985</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2007</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					7.5200e-003	0.0000	7.5200e-003	3.9200e-003	0.0000	3.9200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4800e-003	0.0606	0.0293	6.0000e-005		2.7500e-003	2.7500e-003		2.5300e-003	2.5300e-003	0.0000	5.4312	5.4312	1.7600e-003	0.0000	5.4751
<b>Total</b>	<b>5.4800e-003</b>	<b>0.0606</b>	<b>0.0293</b>	<b>6.0000e-005</b>	<b>7.5200e-003</b>	<b>2.7500e-003</b>	<b>0.0103</b>	<b>3.9200e-003</b>	<b>2.5300e-003</b>	<b>6.4500e-003</b>	<b>0.0000</b>	<b>5.4312</b>	<b>5.4312</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4751</b>

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

**3.3 Grading - 2021**

**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	8.0000e-005	8.7000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.1985	0.1985	1.0000e-005	1.0000e-005	0.2007
<b>Total</b>	<b>1.1000e-004</b>	<b>8.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.1985</b>	<b>0.1985</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2007</b>

**3.4 Building Construction - 2021**

**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	0.0156	0.1433	0.1632	2.6000e-004		8.2800e-003	8.2800e-003		7.9600e-003	7.9600e-003	0.0000	22.6298	22.6298	3.3900e-003	0.0000	22.7146
<b>Total</b>	<b>0.0156</b>	<b>0.1433</b>	<b>0.1632</b>	<b>2.6000e-004</b>		<b>8.2800e-003</b>	<b>8.2800e-003</b>		<b>7.9600e-003</b>	<b>7.9600e-003</b>	<b>0.0000</b>	<b>22.6298</b>	<b>22.6298</b>	<b>3.3900e-003</b>	<b>0.0000</b>	<b>22.7146</b>

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

**3.4 Building Construction - 2021**

**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	9.5000e-004	0.0207	8.5300e-003	8.0000e-005	2.7300e-003	3.9000e-004	3.1200e-003	7.9000e-004	3.7000e-004	1.1600e-003	0.0000	8.0895	8.0895	5.0000e-005	1.1100e-003	8.4220
Worker	3.7600e-003	2.8900e-003	0.0303	8.0000e-005	8.4400e-003	5.0000e-005	8.4800e-003	2.2400e-003	4.0000e-005	2.2800e-003	0.0000	6.9178	6.9178	2.5000e-004	2.3000e-004	6.9940
<b>Total</b>	<b>4.7100e-003</b>	<b>0.0236</b>	<b>0.0389</b>	<b>1.6000e-004</b>	<b>0.0112</b>	<b>4.4000e-004</b>	<b>0.0116</b>	<b>3.0300e-003</b>	<b>4.1000e-004</b>	<b>3.4400e-003</b>	<b>0.0000</b>	<b>15.0073</b>	<b>15.0073</b>	<b>3.0000e-004</b>	<b>1.3400e-003</b>	<b>15.4159</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	0.0156	0.1433	0.1632	2.6000e-004		8.2800e-003	8.2800e-003		7.9600e-003	7.9600e-003	0.0000	22.6297	22.6297	3.3900e-003	0.0000	22.7146
<b>Total</b>	<b>0.0156</b>	<b>0.1433</b>	<b>0.1632</b>	<b>2.6000e-004</b>		<b>8.2800e-003</b>	<b>8.2800e-003</b>		<b>7.9600e-003</b>	<b>7.9600e-003</b>	<b>0.0000</b>	<b>22.6297</b>	<b>22.6297</b>	<b>3.3900e-003</b>	<b>0.0000</b>	<b>22.7146</b>



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**3.4 Building Construction - 2021**

**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	9.5000e-004	0.0207	8.5300e-003	8.0000e-005	2.7300e-003	3.9000e-004	3.1200e-003	7.9000e-004	3.7000e-004	1.1600e-003	0.0000	8.0895	8.0895	5.0000e-005	1.1100e-003	8.4220
Worker	3.7600e-003	2.8900e-003	0.0303	8.0000e-005	8.4400e-003	5.0000e-005	8.4800e-003	2.2400e-003	4.0000e-005	2.2800e-003	0.0000	6.9178	6.9178	2.5000e-004	2.3000e-004	6.9940
<b>Total</b>	<b>4.7100e-003</b>	<b>0.0236</b>	<b>0.0389</b>	<b>1.6000e-004</b>	<b>0.0112</b>	<b>4.4000e-004</b>	<b>0.0116</b>	<b>3.0300e-003</b>	<b>4.1000e-004</b>	<b>3.4400e-003</b>	<b>0.0000</b>	<b>15.0073</b>	<b>15.0073</b>	<b>3.0000e-004</b>	<b>1.3400e-003</b>	<b>15.4159</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0467	0.4316	0.5378	8.7000e-004		0.0233	0.0233		0.0224	0.0224	0.0000	75.0083	75.0083	0.0111	0.0000	75.2853
<b>Total</b>	<b>0.0467</b>	<b>0.4316</b>	<b>0.5378</b>	<b>8.7000e-004</b>		<b>0.0233</b>	<b>0.0233</b>		<b>0.0224</b>	<b>0.0224</b>	<b>0.0000</b>	<b>75.0083</b>	<b>75.0083</b>	<b>0.0111</b>	<b>0.0000</b>	<b>75.2853</b>

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

**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4700e-003	0.0583	0.0256	2.8000e-004	9.0400e-003	7.7000e-004	9.8100e-003	2.6100e-003	7.4000e-004	3.3500e-003	0.0000	26.2589	26.2589	1.3000e-004	3.6000e-003	27.3339
Worker	0.0115	8.4000e-003	0.0917	2.4000e-004	0.0280	1.4000e-004	0.0281	7.4200e-003	1.3000e-004	7.5600e-003	0.0000	22.2110	22.2110	7.6000e-004	7.1000e-004	22.4420
<b>Total</b>	<b>0.0140</b>	<b>0.0667</b>	<b>0.1173</b>	<b>5.2000e-004</b>	<b>0.0370</b>	<b>9.1000e-004</b>	<b>0.0379</b>	<b>0.0100</b>	<b>8.7000e-004</b>	<b>0.0109</b>	<b>0.0000</b>	<b>48.4699</b>	<b>48.4699</b>	<b>8.9000e-004</b>	<b>4.3100e-003</b>	<b>49.7759</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	0.0467	0.4316	0.5378	8.7000e-004		0.0233	0.0233		0.0224	0.0224	0.0000	75.0082	75.0082	0.0111	0.0000	75.2852
<b>Total</b>	<b>0.0467</b>	<b>0.4316</b>	<b>0.5378</b>	<b>8.7000e-004</b>		<b>0.0233</b>	<b>0.0233</b>		<b>0.0224</b>	<b>0.0224</b>	<b>0.0000</b>	<b>75.0082</b>	<b>75.0082</b>	<b>0.0111</b>	<b>0.0000</b>	<b>75.2852</b>

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

**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4700e-003	0.0583	0.0256	2.8000e-004	9.0400e-003	7.7000e-004	9.8100e-003	2.6100e-003	7.4000e-004	3.3500e-003	0.0000	26.2589	26.2589	1.3000e-004	3.6000e-003	27.3339
Worker	0.0115	8.4000e-003	0.0917	2.4000e-004	0.0280	1.4000e-004	0.0281	7.4200e-003	1.3000e-004	7.5600e-003	0.0000	22.2110	22.2110	7.6000e-004	7.1000e-004	22.4420
<b>Total</b>	<b>0.0140</b>	<b>0.0667</b>	<b>0.1173</b>	<b>5.2000e-004</b>	<b>0.0370</b>	<b>9.1000e-004</b>	<b>0.0379</b>	<b>0.0100</b>	<b>8.7000e-004</b>	<b>0.0109</b>	<b>0.0000</b>	<b>48.4699</b>	<b>48.4699</b>	<b>8.9000e-004</b>	<b>4.3100e-003</b>	<b>49.7759</b>

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6900e-003	0.0301	0.0248	5.0000e-005		1.3600e-003	1.3600e-003		1.2600e-003	1.2600e-003	0.0000	3.9688	3.9688	1.2800e-003	0.0000	4.0009
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>2.6900e-003</b>	<b>0.0301</b>	<b>0.0248</b>	<b>5.0000e-005</b>		<b>1.3600e-003</b>	<b>1.3600e-003</b>		<b>1.2600e-003</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>3.9688</b>	<b>3.9688</b>	<b>1.2800e-003</b>	<b>0.0000</b>	<b>4.0009</b>

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

**3.5 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.0000e-004	1.0600e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2564	0.2564	1.0000e-005	1.0000e-005	0.2591
<b>Total</b>	<b>1.3000e-004</b>	<b>1.0000e-004</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2564</b>	<b>0.2564</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2591</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	2.6900e-003	0.0301	0.0248	5.0000e-005		1.3600e-003	1.3600e-003		1.2600e-003	1.2600e-003	0.0000	3.9688	3.9688	1.2800e-003	0.0000	4.0009
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>2.6900e-003</b>	<b>0.0301</b>	<b>0.0248</b>	<b>5.0000e-005</b>		<b>1.3600e-003</b>	<b>1.3600e-003</b>		<b>1.2600e-003</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>3.9688</b>	<b>3.9688</b>	<b>1.2800e-003</b>	<b>0.0000</b>	<b>4.0009</b>

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**3.5 Paving - 2022**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.0000e-004	1.0600e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2564	0.2564	1.0000e-005	1.0000e-005	0.2591
<b>Total</b>	<b>1.3000e-004</b>	<b>1.0000e-004</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2564</b>	<b>0.2564</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2591</b>

**3.6 Architectural Coating - 2022**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1960					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
<b>Total</b>	<b>0.1970</b>	<b>7.0400e-003</b>	<b>9.0700e-003</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2787</b>

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**3.6 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.0000e-004	1.0600e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2564	0.2564	1.0000e-005	1.0000e-005	0.2591
<b>Total</b>	<b>1.3000e-004</b>	<b>1.0000e-004</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2564</b>	<b>0.2564</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2591</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	0.1960					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
<b>Total</b>	<b>0.1970</b>	<b>7.0400e-003</b>	<b>9.0700e-003</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2787</b>

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**3.6 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.0000e-004	1.0600e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2564	0.2564	1.0000e-005	1.0000e-005	0.2591
<b>Total</b>	<b>1.3000e-004</b>	<b>1.0000e-004</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2564</b>	<b>0.2564</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2591</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0302	0.0463	0.2616	4.9000e-004	0.0475	4.9000e-004	0.0480	0.0127	4.6000e-004	0.0131	0.0000	45.6597	45.6597	3.1600e-003	2.7200e-003	46.5489
Unmitigated	0.0302	0.0463	0.2616	4.9000e-004	0.0475	4.9000e-004	0.0480	0.0127	4.6000e-004	0.0131	0.0000	45.6597	45.6597	3.1600e-003	2.7200e-003	46.5489

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	34.44	7.81	2.48	62,302	62,302
Motel	33.50	33.50	33.50	63,575	63,575
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>67.94</b>	<b>41.31</b>	<b>35.98</b>	<b>125,877</b>	<b>125,877</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Motel	9.50	7.30	7.30	19.00	62.00	19.00	58	38	4
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.522706	0.056540	0.174672	0.143027	0.031214	0.007930	0.006101	0.021782	0.000496	0.000161	0.028412	0.000923	0.006036
Motel	0.522706	0.056540	0.174672	0.143027	0.031214	0.007930	0.006101	0.021782	0.000496	0.000161	0.028412	0.000923	0.006036



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

Other Non-Asphalt Surfaces	0.522706	0.056540	0.174672	0.143027	0.031214	0.007930	0.006101	0.021782	0.000496	0.000161	0.028412	0.000923	0.006036
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	39.3093	39.3093	3.3200e-003	4.0000e-004	39.5121
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	39.3093	39.3093	3.3200e-003	4.0000e-004	39.5121
Natural Gas Mitigated	3.5400e-003	0.0322	0.0270	1.9000e-004		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	35.0427	35.0427	6.7000e-004	6.4000e-004	35.2509
Natural Gas Unmitigated	3.5400e-003	0.0322	0.0270	1.9000e-004		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	35.0427	35.0427	6.7000e-004	6.4000e-004	35.2509

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

**5.2 Energy by Land Use - 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	tons/yr										MT/yr					
General Office Building	12128.5	7.0000e-005	5.9000e-004	5.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6472	0.6472	1.0000e-005	1.0000e-005	0.6511
Motel	644546	3.4800e-003	0.0316	0.0265	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	34.3955	34.3955	6.6000e-004	6.3000e-004	34.5999
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.5500e-003</b>	<b>0.0322</b>	<b>0.0270</b>	<b>1.9000e-004</b>		<b>2.4500e-003</b>	<b>2.4500e-003</b>		<b>2.4500e-003</b>	<b>2.4500e-003</b>	<b>0.0000</b>	<b>35.0427</b>	<b>35.0427</b>	<b>6.7000e-004</b>	<b>6.4000e-004</b>	<b>35.2509</b>

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

**5.2 Energy by Land Use - 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					
General Office Building	12128.5	7.0000e-005	5.9000e-004	5.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6472	0.6472	1.0000e-005	1.0000e-005	0.6511
Motel	644546	3.4800e-003	0.0316	0.0265	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	34.3955	34.3955	6.6000e-004	6.3000e-004	34.5999
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.5500e-003</b>	<b>0.0322</b>	<b>0.0270</b>	<b>1.9000e-004</b>		<b>2.4500e-003</b>	<b>2.4500e-003</b>		<b>2.4500e-003</b>	<b>2.4500e-003</b>	<b>0.0000</b>	<b>35.0427</b>	<b>35.0427</b>	<b>6.7000e-004</b>	<b>6.4000e-004</b>	<b>35.2509</b>

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	32495.8	5.7630	4.9000e-004	6.0000e-005	5.7927
Motel	189158	33.5463	2.8300e-003	3.4000e-004	33.7194
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>39.3093</b>	<b>3.3200e-003</b>	<b>4.0000e-004</b>	<b>39.5121</b>

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

**5.3 Energy by Land Use - Electricity**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	32495.8	5.7630	4.9000e-004	6.0000e-005	5.7927
Motel	189158	33.5463	2.8300e-003	3.4000e-004	33.7194
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>39.3093</b>	<b>3.3200e-003</b>	<b>4.0000e-004</b>	<b>39.5121</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0813	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7500e-003	1.7500e-003	0.0000	0.0000	1.8700e-003
Unmitigated	0.0813	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7500e-003	1.7500e-003	0.0000	0.0000	1.8700e-003

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0196					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0616					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7500e-003	1.7500e-003	0.0000	0.0000	1.8700e-003
<b>Total</b>	<b>0.0813</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7500e-003</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8700e-003</b>

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0196					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0616					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7500e-003	1.7500e-003	0.0000	0.0000	1.8700e-003
<b>Total</b>	<b>0.0813</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7500e-003</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8700e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.3188	0.0289	7.0000e-004	3.2509
Unmitigated	2.3188	0.0289	7.0000e-004	3.2509

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.629177 / 0	1.6525	0.0206	5.0000e-004	2.3168
Motel	0.253668 / 0	0.6663	8.3200e-003	2.0000e-004	0.9341
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.3188</b>	<b>0.0289</b>	<b>7.0000e-004</b>	<b>3.2509</b>



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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.629177 / 0	1.6525	0.0206	5.0000e-004	2.3168
Motel	0.253668 / 0	0.6663	8.3200e-003	2.0000e-004	0.9341
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.3188</b>	<b>0.0289</b>	<b>7.0000e-004</b>	<b>3.2509</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.7782	0.1051	0.0000	4.4054
Unmitigated	1.7782	0.1051	0.0000	4.4054

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	3.29	0.6678	0.0395	0.0000	1.6546
Motel	5.47	1.1104	0.0656	0.0000	2.7509
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.7782</b>	<b>0.1051</b>	<b>0.0000</b>	<b>4.4054</b>

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

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	3.29	0.6678	0.0395	0.0000	1.6546
Motel	5.47	1.1104	0.0656	0.0000	2.7509
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.7782</b>	<b>0.1051</b>	<b>0.0000</b>	<b>4.4054</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

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

**11.0 Vegetation**

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**PROJ - 2020-00203 Bubble Camp**

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

**Mojave Desert 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**

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
Forklifts	Diesel	No Change	0	1	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	3	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	1	No Change	0.00
Scrapers	Diesel	No Change	0	1	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	5	No Change	0.00

**PROJ - 2020-00203 Bubble Camp**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.02000E-003	7.04000E-003	9.07000E-003	1.00000E-005	4.10000E-004	4.10000E-004	0.00000E+000	1.27663E+000	1.27663E+000	8.00000E-005	0.00000E+000	1.27870E+000
Forklifts	1.12800E-002	1.04310E-001	1.11360E-001	1.50000E-004	7.03000E-003	6.47000E-003	0.00000E+000	1.29255E+001	1.29255E+001	4.18000E-003	0.00000E+000	1.30301E+001
Generator Sets	3.70000E-002	3.28170E-001	4.04580E-001	7.20000E-004	1.66900E-002	1.66900E-002	0.00000E+000	6.21728E+001	6.21728E+001	3.00000E-003	0.00000E+000	6.22479E+001
Graders	3.07000E-003	3.97600E-002	1.22400E-002	5.00000E-005	1.26000E-003	1.16000E-003	0.00000E+000	4.06935E+000	4.06935E+000	1.32000E-003	0.00000E+000	4.10225E+000
Rollers	8.30000E-004	8.63000E-003	9.30000E-003	1.00000E-005	5.00000E-004	4.60000E-004	0.00000E+000	1.15260E+000	1.15260E+000	3.70000E-004	0.00000E+000	1.16191E+000
Rubber Tired Dozers	3.14000E-003	3.29100E-002	1.21100E-002	3.00000E-005	1.60000E-003	1.47000E-003	0.00000E+000	2.25168E+000	2.25168E+000	7.30000E-004	0.00000E+000	2.26989E+000
Scrapers	1.39000E-003	1.60500E-002	1.05100E-002	2.00000E-005	6.20000E-004	5.70000E-004	0.00000E+000	1.99750E+000	1.99750E+000	6.50000E-004	0.00000E+000	2.01365E+000
Tractors/Loaders/Backhoes	1.60700E-002	1.63270E-001	2.11080E-001	2.90000E-004	9.03000E-003	8.31000E-003	0.00000E+000	2.56974E+001	2.56974E+001	8.31000E-003	0.00000E+000	2.59052E+001

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	1.02000E-003	7.04000E-003	9.07000E-003	1.00000E-005	4.10000E-004	4.10000E-004	0.00000E+000	1.27663E+000	1.27663E+000	8.00000E-005	0.00000E+000	1.27870E+000
Forklifts	1.12800E-002	1.04310E-001	1.11360E-001	1.50000E-004	7.03000E-003	6.47000E-003	0.00000E+000	1.29255E+001	1.29255E+001	4.18000E-003	0.00000E+000	1.30300E+001
Generator Sets	3.70000E-002	3.28170E-001	4.04580E-001	7.20000E-004	1.66900E-002	1.66900E-002	0.00000E+000	6.21728E+001	6.21728E+001	3.00000E-003	0.00000E+000	6.22479E+001
Graders	3.07000E-003	3.97600E-002	1.22400E-002	5.00000E-005	1.26000E-003	1.16000E-003	0.00000E+000	4.06935E+000	4.06935E+000	1.32000E-003	0.00000E+000	4.10225E+000
Rollers	8.30000E-004	8.63000E-003	9.30000E-003	1.00000E-005	5.00000E-004	4.60000E-004	0.00000E+000	1.15259E+000	1.15259E+000	3.70000E-004	0.00000E+000	1.16191E+000
Rubber Tired Dozers	3.14000E-003	3.29100E-002	1.21100E-002	3.00000E-005	1.60000E-003	1.47000E-003	0.00000E+000	2.25168E+000	2.25168E+000	7.30000E-004	0.00000E+000	2.26989E+000
Scrapers	1.39000E-003	1.60500E-002	1.05100E-002	2.00000E-005	6.20000E-004	5.70000E-004	0.00000E+000	1.99750E+000	1.99750E+000	6.50000E-004	0.00000E+000	2.01365E+000
Tractors/Loaders/Backhoes	1.60700E-002	1.63270E-001	2.11080E-001	2.90000E-004	9.03000E-003	8.31000E-003	0.00000E+000	2.56974E+001	2.56974E+001	8.31000E-003	0.00000E+000	2.59052E+001

**PROJ - 2020-00203 Bubble Camp**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	1.54732E-006	1.54732E-006	0.00000E+000	0.00000E+000	1.53491E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12589E-006	1.12589E-006	0.00000E+000	0.00000E+000	1.12454E-006
Graders	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
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.67604E-006	8.67604E-006	0.00000E+000	0.00000E+000	0.00000E+000
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	0.00000E+000
Scrapers	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
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16743E-006	1.16743E-006	0.00000E+000	0.00000E+000	1.15807E-006

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input			
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00	Frequency (per day)	3.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	25.00		





**PROJ - 2020-00203 Bubble Camp**

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

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	0.00
Mobile	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
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	0.00
Water Indoor	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
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	0.00

**Operational Mobile Mitigation**

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.09	0.30		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			

**PROJ - 2020-00203 Bubble Camp**

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

No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
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
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

**PROJ - 2020-00203 Bubble Camp**

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

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00

**PROJ - 2020-00203 Bubble Camp**

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

DishWasher	15.00
Fan	50.00
Refrigerator	15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
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		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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**PROJ - 2020-00203 Bubble Camp**

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

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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