

APPENDIX A

AIR QUALITY MODELING RESULTS

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

Stone Beetland Project

Sacramento Metropolitan AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	17.70	Acre	17.70	771,012.00	0
City Park	8.80	Acre	8.80	383,328.00	0
Apartments Low Rise	711.00	Dwelling Unit	18.00	711,000.00	1898
Single Family Housing	448.00	Dwelling Unit	55.90	806,400.00	1196
Strip Mall	93.00	1000sqft	6.20	93,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2026
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreages adjusted per site plan.

Construction Phase - Phase timing adjusted per AQ Questionnaire.

Grading - Based on applicant-provided AQ Questionnaire.

Vehicle Trips - Trip generation rate adjusted to be consistent with project-specific traffic report (Fehr and Peers)

Energy Use - Off-model calculation done to convert natural gas usage to electricity based on assumption that residential would be all electric and commercial would be 75% electric.

Mobile Land Use Mitigation - Based on AQ Questionnaire.

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Area Mitigation - Based on SMAQMD Rules and Regulations.

Consumer Products - Based on CARB now regulation of consumer products.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	120.00	20.00
tblConstructionPhase	NumDays	310.00	80.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	3,100.00	720.00
tblConstructionPhase	NumDays	220.00	720.00
tblConsumerProducts	ROG_EF	2.14E-05	2.11E-05
tblEnergyUse	NT24E	3,172.76	3,524.82
tblEnergyUse	NT24E	6,155.97	6,508.03
tblEnergyUse	NT24E	2.98	3.07
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	0.93	0.23
tblEnergyUse	T24E	108.87	1,284.05
tblEnergyUse	T24E	142.58	2,890.34
tblEnergyUse	T24E	2.91	3.35
tblEnergyUse	T24NG	8,969.37	0.00
tblEnergyUse	T24NG	20,971.81	0.00
tblEnergyUse	T24NG	4.44	1.11
tblGrading	MaterialImported	0.00	120,000.00
tblLandUse	LotAcreage	44.44	18.00
tblLandUse	LotAcreage	145.45	55.90
tblLandUse	LotAcreage	2.13	6.20
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00

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tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	3.59
tblVehicleTrips	ST_TR	1.96	8.98
tblVehicleTrips	ST_TR	9.54	7.46
tblVehicleTrips	ST_TR	42.04	53.38
tblVehicleTrips	SU_TR	6.28	3.59
tblVehicleTrips	SU_TR	2.19	8.98
tblVehicleTrips	SU_TR	8.55	7.46
tblVehicleTrips	SU_TR	20.43	53.38
tblVehicleTrips	WD_TR	7.32	3.59
tblVehicleTrips	WD_TR	0.78	8.98
tblVehicleTrips	WD_TR	9.44	7.46
tblVehicleTrips	WD_TR	44.32	53.38

2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3501	3.4060	2.3992	9.6300e-003	0.7987	0.1002	0.8988	0.3094	0.0926	0.4020	0.0000	905.7268	905.7268	0.1267	0.0824	933.4554
2024	4.4220	4.2688	7.0201	0.0234	1.6235	0.1063	1.7298	0.4376	0.1005	0.5381	0.0000	2,192.1108	2,192.1108	0.1244	0.1442	2,238.1970
2025	4.3579	4.0441	6.7074	0.0228	1.6173	0.0929	1.7102	0.4359	0.0879	0.5238	0.0000	2,142.2258	2,142.2258	0.1202	0.1397	2,186.8467
2026	3.1621	2.7817	4.5473	0.0156	1.1365	0.0647	1.2012	0.3063	0.0612	0.3675	0.0000	1,473.6223	1,473.6223	0.0820	0.0950	1,503.9888
Maximum	4.4220	4.2688	7.0201	0.0234	1.6235	0.1063	1.7298	0.4376	0.1005	0.5381	0.0000	2,192.1108	2,192.1108	0.1267	0.1442	2,238.1970

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2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3501	3.4060	2.3992	9.6300e-003	0.7987	0.1002	0.8988	0.3094	0.0926	0.4020	0.0000	905.7264	905.7264	0.1267	0.0824	933.4550
2024	4.4220	4.2688	7.0201	0.0234	1.6235	0.1063	1.7298	0.4376	0.1005	0.5381	0.0000	2,192.1104	2,192.1104	0.1244	0.1442	2,238.1966
2025	4.3579	4.0441	6.7074	0.0228	1.6173	0.0929	1.7102	0.4359	0.0879	0.5238	0.0000	2,142.2254	2,142.2254	0.1202	0.1397	2,186.8463
2026	3.1621	2.7817	4.5473	0.0156	1.1365	0.0647	1.2012	0.3063	0.0612	0.3675	0.0000	1,473.6220	1,473.6220	0.0820	0.0950	1,503.9885
Maximum	4.4220	4.2688	7.0201	0.0234	1.6235	0.1063	1.7298	0.4376	0.1005	0.5381	0.0000	2,192.1104	2,192.1104	0.1267	0.1442	2,238.1966

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2023	7-31-2023	1.8517	1.8517
2	8-1-2023	10-31-2023	1.2929	1.2929
3	11-1-2023	1-31-2024	1.3221	1.3221
4	2-1-2024	4-30-2024	2.1454	2.1454
5	5-1-2024	7-31-2024	2.1697	2.1697
6	8-1-2024	10-31-2024	2.1815	2.1815
7	11-1-2024	1-31-2025	2.1826	2.1826
8	2-1-2025	4-30-2025	2.0583	2.0583

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9	5-1-2025	7-31-2025	2.1052	2.1052
10	8-1-2025	10-31-2025	2.1166	2.1166
11	11-1-2025	1-31-2026	2.1308	2.1308
12	2-1-2026	4-30-2026	2.0347	2.0347
13	5-1-2026	7-31-2026	2.0814	2.0814
14	8-1-2026	9-30-2026	1.1008	1.1008
		Highest	2.1826	2.1826

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	7.6167	0.1376	11.9426	6.3000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.5270	19.5270	0.0187	0.0000	19.9946
Energy	6.7000e-004	6.1100e-003	5.1300e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	1,633.5463	1,633.5463	0.1501	0.0183	1,642.7524
Mobile	4.8962	6.1593	44.9836	0.0951	10.4803	0.0742	10.5545	2.8013	0.0693	2.8707	0.0000	9,081.5221	9,081.5221	0.6041	0.4381	9,227.1729
Waste						0.0000	0.0000		0.0000	0.0000	173.7664	0.0000	173.7664	10.2693	0.0000	430.4988
Water						0.0000	0.0000		0.0000	0.0000	29.1541	102.0823	131.2364	0.1098	0.0645	153.2135
Total	12.5135	6.3029	56.9313	0.0958	10.4803	0.1409	10.6212	2.8013	0.1360	2.9374	202.9204	10,836.6778	11,039.5982	11.1520	0.5209	11,473.6323

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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	7.2346	0.1376	11.9426	6.3000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.5270	19.5270	0.0187	0.0000	19.9946
Energy	6.7000e-004	6.1100e-003	5.1300e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	1,633.5463	1,633.5463	0.1501	0.0183	1,642.7524
Mobile	4.6404	5.5993	40.9196	0.0842	9.2436	0.0664	9.3100	2.4708	0.0620	2.5328	0.0000	8,041.7960	8,041.7960	0.5572	0.3984	8,174.4597
Waste						0.0000	0.0000		0.0000	0.0000	173.7664	0.0000	173.7664	10.2693	0.0000	430.4988
Water						0.0000	0.0000		0.0000	0.0000	29.1541	102.0823	131.2364	0.1098	0.0645	153.2135
Total	11.8757	5.7429	52.8673	0.0849	9.2436	0.1331	9.3767	2.4708	0.1287	2.5995	202.9204	9,796.9516	9,999.8720	11.1050	0.4813	10,420.9191

	ROG	NOx	CO	SO2	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	5.10	8.89	7.14	11.37	11.80	5.58	11.72	11.80	5.40	11.50	0.00	9.59	9.42	0.42	7.61	9.18

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	5/1/2023	5/26/2023	5	20	
2	Grading	Grading	5/27/2023	9/15/2023	5	80	
3	Paving	Paving	9/16/2023	12/8/2023	5	60	

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4	Building Construction	Building Construction	12/9/2023	9/11/2026	5	720
5	Architectural Coating	Architectural Coating	12/23/2023	9/25/2026	5	720

Acres of Grading (Site Preparation Phase): 30

Acres of Grading (Grading Phase): 240

Acres of Paving: 17.7

Residential Indoor: 3,072,735; Residential Outdoor: 1,024,245; Non-Residential Indoor: 139,500; Non-Residential Outdoor: 46,500; Striped Parking Area: 46,261 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	15,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,188.00	328.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	238.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1966	0.0000	0.1966	0.1010	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.2752	0.1824	3.8000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	33.4507	33.4507	0.0108	0.0000	33.7212
Total	0.0266	0.2752	0.1824	3.8000e-004	0.1966	0.0127	0.2092	0.1010	0.0117	0.1127	0.0000	33.4507	33.4507	0.0108	0.0000	33.7212

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3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.2000e-004	4.2000e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0605	1.0605	3.0000e-005	3.0000e-005	1.0704
Total	5.2000e-004	3.2000e-004	4.2000e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0605	1.0605	3.0000e-005	3.0000e-005	1.0704

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1966	0.0000	0.1966	0.1010	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.2752	0.1824	3.8000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	33.4507	33.4507	0.0108	0.0000	33.7211
Total	0.0266	0.2752	0.1824	3.8000e-004	0.1966	0.0127	0.2092	0.1010	0.0117	0.1127	0.0000	33.4507	33.4507	0.0108	0.0000	33.7211

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3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.2000e-004	4.2000e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0605	1.0605	3.0000e-005	3.0000e-005	1.0704
Total	5.2000e-004	3.2000e-004	4.2000e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0605	1.0605	3.0000e-005	3.0000e-005	1.0704

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3806	0.0000	0.3806	0.1480	0.0000	0.1480	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1329	1.3806	1.1221	2.4800e-003		0.0570	0.0570		0.0524	0.0524	0.0000	218.1408	218.1408	0.0706	0.0000	219.9046
Total	0.1329	1.3806	1.1221	2.4800e-003	0.3806	0.0570	0.4375	0.1480	0.0524	0.2005	0.0000	218.1408	218.1408	0.0706	0.0000	219.9046

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3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0199	1.1940	0.2398	4.7100e-003	0.1269	8.7100e-003	0.1356	0.0349	8.3300e-003	0.0432	0.0000	465.9785	465.9785	0.0186	0.0739	488.4600
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2900e-003	1.4200e-003	0.0187	5.0000e-005	5.8800e-003	3.0000e-005	5.9100e-003	1.5600e-003	3.0000e-005	1.5900e-003	0.0000	4.7135	4.7135	1.5000e-004	1.3000e-004	4.7573
Total	0.0222	1.1954	0.2584	4.7600e-003	0.1327	8.7400e-003	0.1415	0.0364	8.3600e-003	0.0448	0.0000	470.6920	470.6920	0.0187	0.0740	493.2173

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3806	0.0000	0.3806	0.1480	0.0000	0.1480	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1329	1.3806	1.1221	2.4800e-003		0.0570	0.0570		0.0524	0.0524	0.0000	218.1406	218.1406	0.0706	0.0000	219.9044
Total	0.1329	1.3806	1.1221	2.4800e-003	0.3806	0.0570	0.4375	0.1480	0.0524	0.2005	0.0000	218.1406	218.1406	0.0706	0.0000	219.9044

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

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0199	1.1940	0.2398	4.7100e-003	0.1269	8.7100e-003	0.1356	0.0349	8.3300e-003	0.0432	0.0000	465.9785	465.9785	0.0186	0.0739	488.4600
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2900e-003	1.4200e-003	0.0187	5.0000e-005	5.8800e-003	3.0000e-005	5.9100e-003	1.5600e-003	3.0000e-005	1.5900e-003	0.0000	4.7135	4.7135	1.5000e-004	1.3000e-004	4.7573
Total	0.0222	1.1954	0.2584	4.7600e-003	0.1327	8.7400e-003	0.1415	0.0364	8.3600e-003	0.0448	0.0000	470.6920	470.6920	0.0187	0.0740	493.2173

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0310	0.3058	0.4375	6.8000e-004		0.0153	0.0153		0.0141	0.0141	0.0000	60.0806	60.0806	0.0194	0.0000	60.5664
Paving	0.0232					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0542	0.3058	0.4375	6.8000e-004		0.0153	0.0153		0.0141	0.0141	0.0000	60.0806	60.0806	0.0194	0.0000	60.5664

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

3.4 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	8.0000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6513	2.6513	8.0000e-005	8.0000e-005	2.6760
Total	1.2900e-003	8.0000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6513	2.6513	8.0000e-005	8.0000e-005	2.6760

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	0.0310	0.3058	0.4375	6.8000e-004		0.0153	0.0153		0.0141	0.0141	0.0000	60.0805	60.0805	0.0194	0.0000	60.5663
Paving	0.0232					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0542	0.3058	0.4375	6.8000e-004		0.0153	0.0153		0.0141	0.0141	0.0000	60.0805	60.0805	0.0194	0.0000	60.5663

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

3.4 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	8.0000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6513	2.6513	8.0000e-005	8.0000e-005	2.6760
Total	1.2900e-003	8.0000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6513	2.6513	8.0000e-005	8.0000e-005	2.6760

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0118	0.1079	0.1218	2.0000e-004		5.2500e-003	5.2500e-003		4.9400e-003	4.9400e-003	0.0000	17.3854	17.3854	4.1400e-003	0.0000	17.4888
Total	0.0118	0.1079	0.1218	2.0000e-004		5.2500e-003	5.2500e-003		4.9400e-003	4.9400e-003	0.0000	17.3854	17.3854	4.1400e-003	0.0000	17.4888

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

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2100e-003	0.1199	0.0362	4.7000e-004	0.0144	6.4000e-004	0.0150	4.1600e-003	6.1000e-004	4.7700e-003	0.0000	45.6255	45.6255	1.1300e-003	6.6900e-003	47.6486
Worker	0.0256	0.0158	0.2077	5.7000e-004	0.0654	3.5000e-004	0.0658	0.0174	3.2000e-004	0.0177	0.0000	52.4961	52.4961	1.6600e-003	1.5000e-003	52.9847
Total	0.0288	0.1357	0.2439	1.0400e-003	0.0798	9.9000e-004	0.0808	0.0216	9.3000e-004	0.0225	0.0000	98.1215	98.1215	2.7900e-003	8.1900e-003	100.6333

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	0.0118	0.1079	0.1218	2.0000e-004		5.2500e-003	5.2500e-003		4.9400e-003	4.9400e-003	0.0000	17.3853	17.3853	4.1400e-003	0.0000	17.4887
Total	0.0118	0.1079	0.1218	2.0000e-004		5.2500e-003	5.2500e-003		4.9400e-003	4.9400e-003	0.0000	17.3853	17.3853	4.1400e-003	0.0000	17.4887

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

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2100e-003	0.1199	0.0362	4.7000e-004	0.0144	6.4000e-004	0.0150	4.1600e-003	6.1000e-004	4.7700e-003	0.0000	45.6255	45.6255	1.1300e-003	6.6900e-003	47.6486
Worker	0.0256	0.0158	0.2077	5.7000e-004	0.0654	3.5000e-004	0.0658	0.0174	3.2000e-004	0.0177	0.0000	52.4961	52.4961	1.6600e-003	1.5000e-003	52.9847
Total	0.0288	0.1357	0.2439	1.0400e-003	0.0798	9.9000e-004	0.0808	0.0216	9.3000e-004	0.0225	0.0000	98.1215	98.1215	2.7900e-003	8.1900e-003	100.6333

3.5 Building Construction - 2024

Unmitigated Construction On-Site

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

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

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0536	2.0530	0.6118	8.0300e-003	0.2515	0.0110	0.2625	0.0727	0.0105	0.0832	0.0000	781.7890	781.7890	0.0191	0.1150	816.5269
Worker	0.4174	0.2458	3.3768	9.5500e-003	1.1430	5.8100e-003	1.1488	0.3040	5.3500e-003	0.3094	0.0000	894.0424	894.0424	0.0263	0.0244	901.9616
Total	0.4710	2.2988	3.9886	0.0176	1.3945	0.0168	1.4113	0.3767	0.0159	0.3926	0.0000	1,675.8314	1,675.8314	0.0454	0.1393	1,718.4885

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

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

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0536	2.0530	0.6118	8.0300e-003	0.2515	0.0110	0.2625	0.0727	0.0105	0.0832	0.0000	781.7890	781.7890	0.0191	0.1150	816.5269
Worker	0.4174	0.2458	3.3768	9.5500e-003	1.1430	5.8100e-003	1.1488	0.3040	5.3500e-003	0.3094	0.0000	894.0424	894.0424	0.0263	0.0244	901.9616
Total	0.4710	2.2988	3.9886	0.0176	1.3945	0.0168	1.4113	0.3767	0.0159	0.3926	0.0000	1,675.8314	1,675.8314	0.0454	0.1393	1,718.4885

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0515	2.0036	0.5952	7.8400e-003	0.2505	0.0107	0.2613	0.0724	0.0103	0.0827	0.0000	763.0492	763.0492	0.0186	0.1124	797.0148
Worker	0.3905	0.2197	3.1467	9.2000e-003	1.1386	5.5300e-003	1.1442	0.3028	5.1000e-003	0.3079	0.0000	869.0909	869.0909	0.0238	0.0227	876.4483
Total	0.4420	2.2233	3.7419	0.0170	1.3892	0.0163	1.4054	0.3753	0.0154	0.3906	0.0000	1,632.1401	1,632.1401	0.0424	0.1351	1,673.4630

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0515	2.0036	0.5952	7.8400e-003	0.2505	0.0107	0.2613	0.0724	0.0103	0.0827	0.0000	763.0492	763.0492	0.0186	0.1124	797.0148
Worker	0.3905	0.2197	3.1467	9.2000e-003	1.1386	5.5300e-003	1.1442	0.3028	5.1000e-003	0.3079	0.0000	869.0909	869.0909	0.0238	0.0227	876.4483
Total	0.4420	2.2233	3.7419	0.0170	1.3892	0.0163	1.4054	0.3753	0.0154	0.3906	0.0000	1,632.1401	1,632.1401	0.0424	0.1351	1,673.4630

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1244	1.1347	1.4637	2.4500e-003		0.0480	0.0480		0.0452	0.0452	0.0000	211.0467	211.0467	0.0496	0.0000	212.2870
Total	0.1244	1.1347	1.4637	2.4500e-003		0.0480	0.0480		0.0452	0.0452	0.0000	211.0467	211.0467	0.0496	0.0000	212.2870

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

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0346	1.3688	0.4068	5.3500e-003	0.1747	7.3000e-003	0.1820	0.0505	6.9800e-003	0.0575	0.0000	521.3816	521.3816	0.0127	0.0770	544.6341
Worker	0.2569	0.1389	2.0664	6.2100e-003	0.7940	3.6800e-003	0.7977	0.2112	3.3900e-003	0.2146	0.0000	591.6426	591.6426	0.0152	0.0149	596.4639
Total	0.2915	1.5076	2.4732	0.0116	0.9687	0.0110	0.9796	0.2617	0.0104	0.2720	0.0000	1,113.0241	1,113.0241	0.0279	0.0919	1,141.0980

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	0.1244	1.1347	1.4637	2.4500e-003		0.0480	0.0480		0.0452	0.0452	0.0000	211.0465	211.0465	0.0496	0.0000	212.2867
Total	0.1244	1.1347	1.4637	2.4500e-003		0.0480	0.0480		0.0452	0.0452	0.0000	211.0465	211.0465	0.0496	0.0000	212.2867

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

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0346	1.3688	0.4068	5.3500e-003	0.1747	7.3000e-003	0.1820	0.0505	6.9800e-003	0.0575	0.0000	521.3816	521.3816	0.0127	0.0770	544.6341
Worker	0.2569	0.1389	2.0664	6.2100e-003	0.7940	3.6800e-003	0.7977	0.2112	3.3900e-003	0.2146	0.0000	591.6426	591.6426	0.0152	0.0149	596.4639
Total	0.2915	1.5076	2.4732	0.0116	0.9687	0.0110	0.9796	0.2617	0.0104	0.2720	0.0000	1,113.0241	1,113.0241	0.0279	0.0919	1,141.0980

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0697					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e-004	3.2600e-003	4.5300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393
Total	0.0702	3.2600e-003	4.5300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393

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

3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7100e-003	1.0600e-003	0.0139	4.0000e-005	4.3700e-003	2.0000e-005	4.3900e-003	1.1600e-003	2.0000e-005	1.1800e-003	0.0000	3.5056	3.5056	1.1000e-004	1.0000e-004	3.5383
Total	1.7100e-003	1.0600e-003	0.0139	4.0000e-005	4.3700e-003	2.0000e-005	4.3900e-003	1.1600e-003	2.0000e-005	1.1800e-003	0.0000	3.5056	3.5056	1.1000e-004	1.0000e-004	3.5383

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	0.0697					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e-004	3.2600e-003	4.5300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393
Total	0.0702	3.2600e-003	4.5300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393

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

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7100e-003	1.0600e-003	0.0139	4.0000e-005	4.3700e-003	2.0000e-005	4.3900e-003	1.1600e-003	2.0000e-005	1.1800e-003	0.0000	3.5056	3.5056	1.1000e-004	1.0000e-004	3.5383
Total	1.7100e-003	1.0600e-003	0.0139	4.0000e-005	4.3700e-003	2.0000e-005	4.3900e-003	1.1600e-003	2.0000e-005	1.1800e-003	0.0000	3.5056	3.5056	1.1000e-004	1.0000e-004	3.5383

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.6509					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
Total	3.6746	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947

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

3.6 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0836	0.0492	0.6765	1.9100e-003	0.2290	1.1600e-003	0.2302	0.0609	1.0700e-003	0.0620	0.0000	179.1095	179.1095	5.2700e-003	4.8800e-003	180.6960
Total	0.0836	0.0492	0.6765	1.9100e-003	0.2290	1.1600e-003	0.2302	0.0609	1.0700e-003	0.0620	0.0000	179.1095	179.1095	5.2700e-003	4.8800e-003	180.6960

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	3.6509					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
Total	3.6746	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947

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

3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0836	0.0492	0.6765	1.9100e-003	0.2290	1.1600e-003	0.2302	0.0609	1.0700e-003	0.0620	0.0000	179.1095	179.1095	5.2700e-003	4.8800e-003	180.6960
Total	0.0836	0.0492	0.6765	1.9100e-003	0.2290	1.1600e-003	0.2302	0.0609	1.0700e-003	0.0620	0.0000	179.1095	179.1095	5.2700e-003	4.8800e-003	180.6960

3.6 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.6370					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	3.6593	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654

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

3.6 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0782	0.0440	0.6304	1.8400e-003	0.2281	1.1100e-003	0.2292	0.0607	1.0200e-003	0.0617	0.0000	174.1108	174.1108	4.7700e-003	4.5500e-003	175.5848
Total	0.0782	0.0440	0.6304	1.8400e-003	0.2281	1.1100e-003	0.2292	0.0607	1.0200e-003	0.0617	0.0000	174.1108	174.1108	4.7700e-003	4.5500e-003	175.5848

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	3.6370					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	3.6593	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654

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

3.6 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0782	0.0440	0.6304	1.8400e-003	0.2281	1.1100e-003	0.2292	0.0607	1.0200e-003	0.0617	0.0000	174.1108	174.1108	4.7700e-003	4.5500e-003	175.5848
Total	0.0782	0.0440	0.6304	1.8400e-003	0.2281	1.1100e-003	0.2292	0.0607	1.0200e-003	0.0617	0.0000	174.1108	174.1108	4.7700e-003	4.5500e-003	175.5848

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6755					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0164	0.1100	0.1737	2.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	24.5112	24.5112	1.3400e-003	0.0000	24.5447
Total	2.6919	0.1100	0.1737	2.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	24.5112	24.5112	1.3400e-003	0.0000	24.5447

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

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0543	0.0293	0.4367	1.3100e-003	0.1678	7.8000e-004	0.1686	0.0446	7.2000e-004	0.0454	0.0000	125.0402	125.0402	3.2000e-003	3.1500e-003	126.0592
Total	0.0543	0.0293	0.4367	1.3100e-003	0.1678	7.8000e-004	0.1686	0.0446	7.2000e-004	0.0454	0.0000	125.0402	125.0402	3.2000e-003	3.1500e-003	126.0592

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	2.6755					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0164	0.1100	0.1737	2.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	24.5112	24.5112	1.3400e-003	0.0000	24.5446
Total	2.6919	0.1100	0.1737	2.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	24.5112	24.5112	1.3400e-003	0.0000	24.5446

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

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0543	0.0293	0.4367	1.3100e-003	0.1678	7.8000e-004	0.1686	0.0446	7.2000e-004	0.0454	0.0000	125.0402	125.0402	3.2000e-003	3.1500e-003	126.0592
Total	0.0543	0.0293	0.4367	1.3100e-003	0.1678	7.8000e-004	0.1686	0.0446	7.2000e-004	0.0454	0.0000	125.0402	125.0402	3.2000e-003	3.1500e-003	126.0592

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.6404	5.5993	40.9196	0.0842	9.2436	0.0664	9.3100	2.4708	0.0620	2.5328	0.0000	8,041.7960	8,041.7960	0.5572	0.3984	8,174.4597
Unmitigated	4.8962	6.1593	44.9836	0.0951	10.4803	0.0742	10.5545	2.8013	0.0693	2.8707	0.0000	9,081.5221	9,081.5221	0.6041	0.4381	9,227.1729

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,552.49	2,552.49	2552.49	7,377,104	6,506,606
City Park	79.02	79.02	79.02	199,483	175,944
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	3,342.08	3,342.08	3342.08	9,659,146	8,519,367
Strip Mall	4,964.34	4,964.34	4964.34	11,049,926	9,746,035
Total	10,937.93	10,937.93	10,937.93	28,285,660	24,947,952

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
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	100	0	0
City Park	10.00	5.00	6.50	33.00	48.00	19.00	100	0	0
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	100	0	0
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
City Park	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Other Asphalt Surfaces	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Single Family Housing	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Strip Mall	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071

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	1,626.896 2	1,626.896 2	0.1500	0.0182	1,636.062 7
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,626.896 2	1,626.896 2	0.1500	0.0182	1,636.062 7
NaturalGas Mitigated	6.7000e-004	6.1100e-003	5.1300e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.6502	6.6502	1.3000e-004	1.2000e-004	6.6897
NaturalGas Unmitigated	6.7000e-004	6.1100e-003	5.1300e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.6502	6.6502	1.3000e-004	1.2000e-004	6.6897

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	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
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Strip Mall	124620	6.7000e-004	6.1100e-003	5.1300e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.6502	6.6502	1.3000e-004	1.2000e-004	6.6897
Total		6.7000e-004	6.1100e-003	5.1300e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.6502	6.6502	1.3000e-004	1.2000e-004	6.6897

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	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
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Strip Mall	124620	6.7000e-004	6.1100e-003	5.1300e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.6502	6.6502	1.3000e-004	1.2000e-004	6.6897
Total		6.7000e-004	6.1100e-003	5.1300e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.6502	6.6502	1.3000e-004	1.2000e-004	6.6897

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	3.99527e+006	648.7404	0.0598	7.2500e-003	652.3956
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.93123e+006	800.7183	0.0738	8.9500e-003	805.2299
Strip Mall	1.09275e+006	177.4375	0.0164	1.9800e-003	178.4372
Total		1,626.8961	0.1500	0.0182	1,636.0627

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	3.99527e+006	648.7404	0.0598	7.2500e-003	652.3956
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.93123e+006	800.7183	0.0738	8.9500e-003	805.2299
Strip Mall	1.09275e+006	177.4375	0.0164	1.9800e-003	178.4372
Total		1,626.8961	0.1500	0.0182	1,636.0627

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	7.2346	0.1376	11.9426	6.3000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.5270	19.5270	0.0187	0.0000	19.9946
Unmitigated	7.6167	0.1376	11.9426	6.3000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.5270	19.5270	0.0187	0.0000	19.9946

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	1.0033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.2547					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3587	0.1376	11.9426	6.3000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.5270	19.5270	0.0187	0.0000	19.9946
Total	7.6167	0.1376	11.9426	6.3000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.5270	19.5270	0.0187	0.0000	19.9946

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.8726					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3587	0.1376	11.9426	6.3000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.5270	19.5270	0.0187	0.0000	19.9946
Total	7.2346	0.1376	11.9426	6.3000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.5270	19.5270	0.0187	0.0000	19.9946

7.0 Water Detail

7.1 Mitigation Measures Water

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	131.2364	0.1098	0.0645	153.2135
Unmitigated	131.2364	0.1098	0.0645	153.2135

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	46.3245 / 29.2046	70.4665	0.0614	0.0363	82.8029
City Park	0 / 10.485	5.9589	5.5000e-004	7.0000e-005	5.9924
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	29.189 / 18.4018	44.4008	0.0387	0.0228	52.1740
Strip Mall	6.88874 / 4.22213	10.4102	9.1200e-003	5.3900e-003	12.2443
Total		131.2364	0.1098	0.0646	153.2135

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	46.3245 / 29.2046	70.4665	0.0614	0.0363	82.8029
City Park	0 / 10.485	5.9589	5.5000e-004	7.0000e-005	5.9924
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	29.189 / 18.4018	44.4008	0.0387	0.0228	52.1740
Strip Mall	6.88874 / 4.22213	10.4102	9.1200e-003	5.3900e-003	12.2443
Total		131.2364	0.1098	0.0646	153.2135

8.0 Waste Detail

8.1 Mitigation Measures Waste

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	173.7664	10.2693	0.0000	430.4988
Unmitigated	173.7664	10.2693	0.0000	430.4988

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	327.06	66.3902	3.9236	0.0000	164.4790
City Park	0.76	0.1543	9.1200e-003	0.0000	0.3822
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	430.56	87.3998	5.1652	0.0000	216.5293
Strip Mall	97.65	19.8221	1.1715	0.0000	49.1083
Total		173.7664	10.2693	0.0000	430.4988

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	327.06	66.3902	3.9236	0.0000	164.4790
City Park	0.76	0.1543	9.1200e-003	0.0000	0.3822
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	430.56	87.3998	5.1652	0.0000	216.5293
Strip Mall	97.65	19.8221	1.1715	0.0000	49.1083
Total		173.7664	10.2693	0.0000	430.4988

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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Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

Stone Beetland Project

Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	17.70	Acre	17.70	771,012.00	0
City Park	8.80	Acre	8.80	383,328.00	0
Apartments Low Rise	711.00	Dwelling Unit	18.00	711,000.00	1898
Single Family Housing	448.00	Dwelling Unit	55.90	806,400.00	1196
Strip Mall	93.00	1000sqft	6.20	93,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2026
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreages adjusted per site plan.

Construction Phase - Phase timing adjusted per AQ Questionnaire.

Grading - Based on applicant-provided AQ Questionnaire.

Vehicle Trips - Trip generation rate adjusted to be consistent with project-specific traffic report (Fehr and Peers)

Energy Use - Off-model calculation done to convert natural gas usage to electricity based on assumption that residential would be all electric and commercial would be 75% electric.

Mobile Land Use Mitigation - Based on AQ Questionnaire.

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

Area Mitigation - Based on SMAQMD Rules and Regulations.

Consumer Products - Based on CARB now regulation of consumer products.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	120.00	20.00
tblConstructionPhase	NumDays	310.00	80.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	3,100.00	720.00
tblConstructionPhase	NumDays	220.00	720.00
tblConsumerProducts	ROG_EF	2.14E-05	2.11E-05
tblEnergyUse	NT24E	3,172.76	3,524.82
tblEnergyUse	NT24E	6,155.97	6,508.03
tblEnergyUse	NT24E	2.98	3.07
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	0.93	0.23
tblEnergyUse	T24E	108.87	1,284.05
tblEnergyUse	T24E	142.58	2,890.34
tblEnergyUse	T24E	2.91	3.35
tblEnergyUse	T24NG	8,969.37	0.00
tblEnergyUse	T24NG	20,971.81	0.00
tblEnergyUse	T24NG	4.44	1.11
tblGrading	MaterialImported	0.00	120,000.00
tblLandUse	LotAcreage	44.44	18.00
tblLandUse	LotAcreage	145.45	55.90
tblLandUse	LotAcreage	2.13	6.20
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	3.59
tblVehicleTrips	ST_TR	1.96	8.98
tblVehicleTrips	ST_TR	9.54	7.46
tblVehicleTrips	ST_TR	42.04	53.38
tblVehicleTrips	SU_TR	6.28	3.59
tblVehicleTrips	SU_TR	2.19	8.98
tblVehicleTrips	SU_TR	8.55	7.46
tblVehicleTrips	SU_TR	20.43	53.38
tblVehicleTrips	WD_TR	7.32	3.59
tblVehicleTrips	WD_TR	0.78	8.98
tblVehicleTrips	WD_TR	9.44	7.46
tblVehicleTrips	WD_TR	44.32	53.38

2.0 Emissions Summary

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	34.8779	62.7312	61.6458	0.1916	19.7939	1.6426	21.0607	10.1388	1.5192	11.3042	0.0000	19,689.28 61	19,689.28 61	2.4601	2.0390	20,083.11 89
2024	34.4300	31.6054	58.6324	0.1871	12.8235	0.8110	13.6345	3.4461	0.7668	4.2129	0.0000	19,306.19 08	19,306.19 08	1.0328	1.1981	19,689.03 44
2025	34.0261	30.0447	56.0427	0.1826	12.8232	0.7119	13.5351	3.4460	0.6730	4.1190	0.0000	18,932.14 65	18,932.14 65	1.0018	1.1652	19,304.43 00
2026	33.7709	29.5758	53.9447	0.1784	12.8231	0.7075	13.5305	3.4460	0.6689	4.1148	0.0000	18,571.35 56	18,571.35 56	0.9778	1.1355	18,934.18 48
Maximum	34.8779	62.7312	61.6458	0.1916	19.7939	1.6426	21.0607	10.1388	1.5192	11.3042	0.0000	19,689.28 61	19,689.28 61	2.4601	2.0390	20,083.11 89

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	42.6391	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218
Energy	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Mobile	33.1885	31.1595	265.9748	0.5617	59.6248	0.4081	60.0328	15.8929	0.3811	16.2740		59,090.4733	59,090.4733	3.4954	2.5490	59,937.4676
Total	75.8314	32.2934	361.5434	0.5669	59.6248	0.9407	60.5655	15.8929	0.9137	16.8066	0.0000	59,302.8392	59,302.8392	3.6611	2.5498	60,154.1958

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	40.5456	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218
Energy	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Mobile	31.7893	28.3557	240.3231	0.4972	52.5890	0.3648	52.9539	14.0175	0.3407	14.3582		52,308.7838	52,308.7838	3.2067	2.3183	53,079.7954
Total	72.3386	29.4896	335.8918	0.5025	52.5890	0.8975	53.4865	14.0175	0.8733	14.8909	0.0000	52,521.1497	52,521.1497	3.3724	2.3190	53,296.5235

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	4.61	8.68	7.10	11.37	11.80	4.59	11.69	11.80	4.42	11.40	0.00	11.44	11.44	7.89	9.05	11.40

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	5/1/2023	5/26/2023	5	20	
2	Grading	Grading	5/27/2023	9/15/2023	5	80	
3	Paving	Paving	9/16/2023	12/8/2023	5	60	
4	Building Construction	Building Construction	12/9/2023	9/11/2026	5	720	
5	Architectural Coating	Architectural Coating	12/23/2023	9/25/2026	5	720	

Acres of Grading (Site Preparation Phase): 30

Acres of Grading (Grading Phase): 240

Acres of Paving: 17.7

Residential Indoor: 3,072,735; Residential Outdoor: 1,024,245; Non-Residential Indoor: 139,500; Non-Residential Outdoor: 46,500; Striped Parking Area: 46,261 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	15,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,188.00	328.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	238.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.5138	0.0000	9.5138	3.7007	0.0000	3.7007			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.5138	1.4245	10.9383	3.7007	1.3105	5.0113		6,011.4777	6,011.4777	1.9442		6,060.0836

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	0.5088	28.1832	5.9488	0.1176	3.2696	0.2173	3.4870	0.8953	0.2079	1.1033		12,838.2702	12,838.2702	0.5120	2.0355	13,457.6591
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0674	0.0324	0.5451	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		142.3398	142.3398	3.9100e-003	3.5000e-003	143.4791
Total	0.5762	28.2156	6.4938	0.1190	3.4218	0.2181	3.6399	0.9357	0.2087	1.1443		12,980.6100	12,980.6100	0.5159	2.0390	13,601.1382

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.5138	0.0000	9.5138	3.7007	0.0000	3.7007			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.5138	1.4245	10.9383	3.7007	1.3105	5.0113	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

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	0.5088	28.1832	5.9488	0.1176	3.2696	0.2173	3.4870	0.8953	0.2079	1.1033		12,838.2702	12,838.2702	0.5120	2.0355	13,457.6591
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0674	0.0324	0.5451	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		142.3398	142.3398	3.9100e-003	3.5000e-003	143.4791
Total	0.5762	28.2156	6.4938	0.1190	3.4218	0.2181	3.6399	0.9357	0.2087	1.1443		12,980.6100	12,980.6100	0.5159	2.0390	13,601.1382

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.7729					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8056	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0505	0.0243	0.4088	1.0400e-003	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		106.7548	106.7548	2.9300e-003	2.6200e-003	107.6093
Total	0.0505	0.0243	0.4088	1.0400e-003	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		106.7548	106.7548	2.9300e-003	2.6200e-003	107.6093

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.4 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.7729					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8056	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0505	0.0243	0.4088	1.0400e-003	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		106.7548	106.7548	2.9300e-003	2.6200e-003	107.6093
Total	0.0505	0.0243	0.4088	1.0400e-003	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		106.7548	106.7548	2.9300e-003	2.6200e-003	107.6093

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

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

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	0.4389	15.1877	4.7281	0.0625	1.9761	0.0848	2.0609	0.5688	0.0811	0.6499		6,703.8022	6,703.8022	0.1657	0.9827	7,000.7835
Worker	4.0032	1.9234	32.3764	0.0826	9.0371	0.0466	9.0837	2.3972	0.0429	2.4401		8,454.9826	8,454.9826	0.2320	0.2076	8,522.6590
Total	4.4420	17.1111	37.1045	0.1451	11.0132	0.1314	11.1446	2.9660	0.1240	3.0900		15,158.7848	15,158.7848	0.3977	1.1903	15,523.4425

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

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

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	0.4389	15.1877	4.7281	0.0625	1.9761	0.0848	2.0609	0.5688	0.0811	0.6499		6,703.8022	6,703.8022	0.1657	0.9827	7,000.7835
Worker	4.0032	1.9234	32.3764	0.0826	9.0371	0.0466	9.0837	2.3972	0.0429	2.4401		8,454.9826	8,454.9826	0.2320	0.2076	8,522.6590
Total	4.4420	17.1111	37.1045	0.1451	11.0132	0.1314	11.1446	2.9660	0.1240	3.0900		15,158.7848	15,158.7848	0.3977	1.1903	15,523.4425

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2024

Unmitigated Construction On-Site

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

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	0.4198	14.8861	4.5797	0.0613	1.9759	0.0836	2.0595	0.5687	0.0799	0.6486		6,576.1291	6,576.1291	0.1610	0.9662	6,868.0860
Worker	3.7392	1.7135	30.0547	0.0799	9.0371	0.0444	9.0815	2.3972	0.0409	2.4380		8,241.7831	8,241.7831	0.2096	0.1932	8,304.5836
Total	4.1590	16.5996	34.6344	0.1412	11.0130	0.1279	11.1409	2.9659	0.1208	3.0867		14,817.9122	14,817.9122	0.3706	1.1594	15,172.6696

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

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

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	0.4198	14.8861	4.5797	0.0613	1.9759	0.0836	2.0595	0.5687	0.0799	0.6486		6,576.1291	6,576.1291	0.1610	0.9662	6,868.0860
Worker	3.7392	1.7135	30.0547	0.0799	9.0371	0.0444	9.0815	2.3972	0.0409	2.4380		8,241.7831	8,241.7831	0.2096	0.1932	8,304.5836
Total	4.1590	16.5996	34.6344	0.1412	11.0130	0.1279	11.1409	2.9659	0.1208	3.0867		14,817.9122	14,817.9122	0.3706	1.1594	15,172.6696

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.4047	14.5831	4.4723	0.0600	1.9757	0.0819	2.0576	0.5686	0.0784	0.6470		6,442.781 6	6,442.781 6	0.1577	0.9484	6,729.351 1
Worker	3.5104	1.5382	28.0560	0.0772	9.0371	0.0424	9.0795	2.3972	0.0390	2.4362		8,040.612 7	8,040.612 7	0.1898	0.1806	8,099.185 0
Total	3.9151	16.1213	32.5283	0.1372	11.0128	0.1243	11.1371	2.9658	0.1174	3.0832		14,483.39 43	14,483.39 43	0.3474	1.1290	14,828.53 61

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.4047	14.5831	4.4723	0.0600	1.9757	0.0819	2.0576	0.5686	0.0784	0.6470		6,442.781 6	6,442.781 6	0.1577	0.9484	6,729.351 1
Worker	3.5104	1.5382	28.0560	0.0772	9.0371	0.0424	9.0795	2.3972	0.0390	2.4362		8,040.612 7	8,040.612 7	0.1898	0.1806	8,099.185 0
Total	3.9151	16.1213	32.5283	0.1372	11.0128	0.1243	11.1371	2.9658	0.1174	3.0832		14,483.39 43	14,483.39 43	0.3474	1.1290	14,828.53 61

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3906	14.2864	4.3841	0.0588	1.9755	0.0799	2.0554	0.5686	0.0764	0.6450		6,312.858 7	6,312.858 7	0.1542	0.9312	6,594.204 2
Worker	3.3095	1.3948	26.3816	0.0747	9.0371	0.0404	9.0775	2.3972	0.0372	2.4344		7,848.276 6	7,848.276 6	0.1727	0.1702	7,903.324 7
Total	3.7001	15.6812	30.7657	0.1335	11.0126	0.1203	11.1329	2.9657	0.1136	3.0794		14,161.13 53	14,161.13 53	0.3269	1.1014	14,497.52 89

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3906	14.2864	4.3841	0.0588	1.9755	0.0799	2.0554	0.5686	0.0764	0.6450		6,312.858 7	6,312.858 7	0.1542	0.9312	6,594.204 2
Worker	3.3095	1.3948	26.3816	0.0747	9.0371	0.0404	9.0775	2.3972	0.0372	2.4344		7,848.276 6	7,848.276 6	0.1727	0.1702	7,903.324 7
Total	3.7001	15.6812	30.7657	0.1335	11.0126	0.1203	11.1329	2.9657	0.1136	3.0794		14,161.13 53	14,161.13 53	0.3269	1.1014	14,497.52 89

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	28.0612	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.8020	0.3853	6.4862	0.0166	1.8105	9.3300e-003	1.8198	0.4802	8.5900e-003	0.4888		1,693.8433	1,693.8433	0.0465	0.0416	1,707.4014
Total	0.8020	0.3853	6.4862	0.0166	1.8105	9.3300e-003	1.8198	0.4802	8.5900e-003	0.4888		1,693.8433	1,693.8433	0.0465	0.0416	1,707.4014

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	28.0612	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.8020	0.3853	6.4862	0.0166	1.8105	9.3300e-003	1.8198	0.4802	8.5900e-003	0.4888		1,693.8433	1,693.8433	0.0465	0.0416	1,707.4014
Total	0.8020	0.3853	6.4862	0.0166	1.8105	9.3300e-003	1.8198	0.4802	8.5900e-003	0.4888		1,693.8433	1,693.8433	0.0465	0.0416	1,707.4014

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	28.0503	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.7491	0.3433	6.0211	0.0160	1.8105	8.8900e-003	1.8194	0.4802	8.1800e-003	0.4884		1,651.1316	1,651.1316	0.0420	0.0387	1,663.7129
Total	0.7491	0.3433	6.0211	0.0160	1.8105	8.8900e-003	1.8194	0.4802	8.1800e-003	0.4884		1,651.1316	1,651.1316	0.0420	0.0387	1,663.7129

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	28.0503	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.7491	0.3433	6.0211	0.0160	1.8105	8.8900e-003	1.8194	0.4802	8.1800e-003	0.4884		1,651.1316	1,651.1316	0.0420	0.0387	1,663.7129
Total	0.7491	0.3433	6.0211	0.0160	1.8105	8.8900e-003	1.8194	0.4802	8.1800e-003	0.4884		1,651.1316	1,651.1316	0.0420	0.0387	1,663.7129

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	28.0404	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.7033	0.3082	5.6206	0.0155	1.8105	8.5000e-003	1.8190	0.4802	7.8200e-003	0.4881		1,610.8298	1,610.8298	0.0380	0.0362	1,622.5640
Total	0.7033	0.3082	5.6206	0.0155	1.8105	8.5000e-003	1.8190	0.4802	7.8200e-003	0.4881		1,610.8298	1,610.8298	0.0380	0.0362	1,622.5640

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2025

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	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	28.0404	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.7033	0.3082	5.6206	0.0155	1.8105	8.5000e-003	1.8190	0.4802	7.8200e-003	0.4881		1,610.8298	1,610.8298	0.0380	0.0362	1,622.5640
Total	0.7033	0.3082	5.6206	0.0155	1.8105	8.5000e-003	1.8190	0.4802	7.8200e-003	0.4881		1,610.8298	1,610.8298	0.0380	0.0362	1,622.5640

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	28.0404	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.6630	0.2794	5.2852	0.0150	1.8105	8.1000e-003	1.8186	0.4802	7.4600e-003	0.4877		1,572.2978	1,572.2978	0.0346	0.0341	1,583.3260
Total	0.6630	0.2794	5.2852	0.0150	1.8105	8.1000e-003	1.8186	0.4802	7.4600e-003	0.4877		1,572.2978	1,572.2978	0.0346	0.0341	1,583.3260

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2026

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	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	28.0404	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.6630	0.2794	5.2852	0.0150	1.8105	8.1000e-003	1.8186	0.4802	7.4600e-003	0.4877		1,572.2978	1,572.2978	0.0346	0.0341	1,583.3260
Total	0.6630	0.2794	5.2852	0.0150	1.8105	8.1000e-003	1.8186	0.4802	7.4600e-003	0.4877		1,572.2978	1,572.2978	0.0346	0.0341	1,583.3260

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	31.7893	28.3557	240.3231	0.4972	52.5890	0.3648	52.9539	14.0175	0.3407	14.3582		52,308.78 38	52,308.78 38	3.2067	2.3183	53,079.79 54
Unmitigated	33.1885	31.1595	265.9748	0.5617	59.6248	0.4081	60.0328	15.8929	0.3811	16.2740		59,090.47 33	59,090.47 33	3.4954	2.5490	59,937.46 76

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,552.49	2,552.49	2552.49	7,377,104	6,506,606
City Park	79.02	79.02	79.02	199,483	175,944
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	3,342.08	3,342.08	3342.08	9,659,146	8,519,367
Strip Mall	4,964.34	4,964.34	4964.34	11,049,926	9,746,035
Total	10,937.93	10,937.93	10,937.93	28,285,660	24,947,952

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

4.3 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
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	100	0	0
City Park	10.00	5.00	6.50	33.00	48.00	19.00	100	0	0
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	100	0	0
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
City Park	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Other Asphalt Surfaces	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Single Family Housing	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Strip Mall	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Natural Gas Mitigated	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Natural Gas Unmitigated	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063

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					
Apartments Low Rise	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
City Park	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Strip Mall	341.425	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Total		3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

5.2 Energy by Land Use - 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					
Apartments Low Rise	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
City Park	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Strip Mall	0.341425	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Total		3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	40.5456	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218
Unmitigated	42.6391	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218

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	5.4975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	34.2723					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8693	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301		172.1983	172.1983	0.1649		176.3218
Total	42.6391	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	32.1788					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8693	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301		172.1983	172.1983	0.1649		176.3218
Total	40.5456	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218

7.0 Water Detail

7.1 Mitigation Measures Water

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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
----------------	--------	-----------	------------	-------------	-------------	-----------

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

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

Stone Beetland Project
Sacramento Metropolitan AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	17.70	Acre	17.70	771,012.00	0
City Park	8.80	Acre	8.80	383,328.00	0
Apartments Low Rise	711.00	Dwelling Unit	18.00	711,000.00	1898
Single Family Housing	448.00	Dwelling Unit	55.90	806,400.00	1196
Strip Mall	93.00	1000sqft	6.20	93,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2026
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreages adjusted per site plan.

Construction Phase - Phase timing adjusted per AQ Questionnaire.

Grading - Based on applicant-provided AQ Questionnaire.

Vehicle Trips - Trip generation rate adjusted to be consistent with project-specific traffic report (Fehr and Peers)

Energy Use - Off-model calculation done to convert natural gas usage to electricity based on assumption that residential would be all electric and commercial would be 75% electric.

Mobile Land Use Mitigation - Based on AQ Questionnaire.

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

Area Mitigation - Based on SMAQMD Rules and Regulations.

Consumer Products - Based on CARB now regulation of consumer products.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	120.00	20.00
tblConstructionPhase	NumDays	310.00	80.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	3,100.00	720.00
tblConstructionPhase	NumDays	220.00	720.00
tblConsumerProducts	ROG_EF	2.14E-05	2.11E-05
tblEnergyUse	NT24E	3,172.76	3,524.82
tblEnergyUse	NT24E	6,155.97	6,508.03
tblEnergyUse	NT24E	2.98	3.07
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	0.93	0.23
tblEnergyUse	T24E	108.87	1,284.05
tblEnergyUse	T24E	142.58	2,890.34
tblEnergyUse	T24E	2.91	3.35
tblEnergyUse	T24NG	8,969.37	0.00
tblEnergyUse	T24NG	20,971.81	0.00
tblEnergyUse	T24NG	4.44	1.11
tblGrading	MaterialImported	0.00	120,000.00
tblLandUse	LotAcreage	44.44	18.00
tblLandUse	LotAcreage	145.45	55.90
tblLandUse	LotAcreage	2.13	6.20
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	3.59
tblVehicleTrips	ST_TR	1.96	8.98
tblVehicleTrips	ST_TR	9.54	7.46
tblVehicleTrips	ST_TR	42.04	53.38
tblVehicleTrips	SU_TR	6.28	3.59
tblVehicleTrips	SU_TR	2.19	8.98
tblVehicleTrips	SU_TR	8.55	7.46
tblVehicleTrips	SU_TR	20.43	53.38
tblVehicleTrips	WD_TR	7.32	3.59
tblVehicleTrips	WD_TR	0.78	8.98
tblVehicleTrips	WD_TR	9.44	7.46
tblVehicleTrips	WD_TR	44.32	53.38

2.0 Emissions Summary

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	34.3138	65.0275	56.8455	0.1810	19.7939	1.6434	21.0607	10.1388	1.5200	11.3042	0.0000	18,983.66 41	18,983.66 41	2.4594	2.0408	19,653.30 81
2024	33.9102	33.1885	54.3367	0.1766	12.8235	0.8119	13.6354	3.4461	0.7676	4.2137	0.0000	18,221.76 66	18,221.76 66	1.0718	1.2342	18,616.36 39
2025	33.5420	31.5609	52.1535	0.1725	12.8232	0.7127	13.5359	3.4460	0.6737	4.1198	0.0000	17,877.43 51	17,877.43 51	1.0383	1.1990	18,260.69 98
2026	33.3200	31.0342	50.3721	0.1686	12.8231	0.7082	13.5313	3.4460	0.6695	4.1155	0.0000	17,544.46 49	17,544.46 49	1.0120	1.1673	17,917.62 99
Maximum	34.3138	65.0275	56.8455	0.1810	19.7939	1.6434	21.0607	10.1388	1.5200	11.3042	0.0000	18,983.66 41	18,983.66 41	2.4594	2.0408	19,653.30 81

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	42.6391	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218
Energy	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Mobile	25.8713	36.0284	263.9589	0.5135	59.6248	0.4086	60.0333	15.8929	0.3816	16.2745		54,034.5515	54,034.5515	3.9247	2.7784	54,960.6401
Total	68.5141	37.1624	359.5276	0.5188	59.6248	0.9412	60.5660	15.8929	0.9142	16.8071	0.0000	54,246.9174	54,246.9174	4.0904	2.7792	55,177.3682

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	40.5456	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218
Energy	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Mobile	24.4090	32.7695	241.2783	0.4548	52.5890	0.3654	52.9544	14.0175	0.3412	14.3587		47,855.2603	47,855.2603	3.6353	2.5294	48,699.9096
Total	64.9583	33.9034	336.8469	0.4601	52.5890	0.8980	53.4870	14.0175	0.8738	14.8914	0.0000	48,067.6262	48,067.6262	3.8011	2.5302	48,916.6377

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	5.19	8.77	6.31	11.32	11.80	4.59	11.69	11.80	4.42	11.40	0.00	11.39	11.39	7.07	8.96	11.35

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	5/1/2023	5/26/2023	5	20	
2	Grading	Grading	5/27/2023	9/15/2023	5	80	
3	Paving	Paving	9/16/2023	12/8/2023	5	60	
4	Building Construction	Building Construction	12/9/2023	9/11/2026	5	720	
5	Architectural Coating	Architectural Coating	12/23/2023	9/25/2026	5	720	

Acres of Grading (Site Preparation Phase): 30

Acres of Grading (Grading Phase): 240

Acres of Paving: 17.7

Residential Indoor: 3,072,735; Residential Outdoor: 1,024,245; Non-Residential Indoor: 139,500; Non-Residential Outdoor: 46,500; Striped Parking Area: 46,261 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	15,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,188.00	328.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	238.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.5138	0.0000	9.5138	3.7007	0.0000	3.7007			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.5138	1.4245	10.9383	3.7007	1.3105	5.0113		6,011.4777	6,011.4777	1.9442		6,060.0836

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	0.4848	30.4722	6.0572	0.1177	3.2696	0.2181	3.4878	0.8953	0.2087	1.1040		12,845.5708	12,845.5708	0.5107	2.0368	13,465.3017
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0597	0.0397	0.4747	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		126.6156	126.6156	4.5000e-003	4.0100e-003	127.9228
Total	0.5444	30.5119	6.5319	0.1189	3.4218	0.2189	3.6407	0.9357	0.2094	1.1451		12,972.1864	12,972.1864	0.5152	2.0408	13,593.2245

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.5138	0.0000	9.5138	3.7007	0.0000	3.7007			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.5138	1.4245	10.9383	3.7007	1.3105	5.0113	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

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	0.4848	30.4722	6.0572	0.1177	3.2696	0.2181	3.4878	0.8953	0.2087	1.1040		12,845.5708	12,845.5708	0.5107	2.0368	13,465.3017
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0597	0.0397	0.4747	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		126.6156	126.6156	4.5000e-003	4.0100e-003	127.9228
Total	0.5444	30.5119	6.5319	0.1189	3.4218	0.2189	3.6407	0.9357	0.2094	1.1451		12,972.1864	12,972.1864	0.5152	2.0408	13,593.2245

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.7729					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8056	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0448	0.0298	0.3560	9.3000e-004	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		94.9617	94.9617	3.3700e-003	3.0100e-003	95.9421
Total	0.0448	0.0298	0.3560	9.3000e-004	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		94.9617	94.9617	3.3700e-003	3.0100e-003	95.9421

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.4 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.7729					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8056	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0448	0.0298	0.3560	9.3000e-004	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		94.9617	94.9617	3.3700e-003	3.0100e-003	95.9421
Total	0.0448	0.0298	0.3560	9.3000e-004	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		94.9617	94.9617	3.3700e-003	3.0100e-003	95.9421

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

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

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	0.4243	16.3233	4.9434	0.0625	1.9761	0.0858	2.0619	0.5688	0.0820	0.6508		6,708.6069	6,708.6069	0.1649	0.9850	7,006.2711
Worker	3.5454	2.3599	28.1980	0.0735	9.0371	0.0466	9.0837	2.3972	0.0429	2.4401		7,520.9684	7,520.9684	0.2673	0.2381	7,598.6153
Total	3.9696	18.6832	33.1413	0.1360	11.0132	0.1324	11.1456	2.9660	0.1249	3.0909		14,229.5752	14,229.5752	0.4322	1.2232	14,604.8864

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

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

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	0.4243	16.3233	4.9434	0.0625	1.9761	0.0858	2.0619	0.5688	0.0820	0.6508		6,708.6069	6,708.6069	0.1649	0.9850	7,006.2711
Worker	3.5454	2.3599	28.1980	0.0735	9.0371	0.0466	9.0837	2.3972	0.0429	2.4401		7,520.9684	7,520.9684	0.2673	0.2381	7,598.6153
Total	3.9696	18.6832	33.1413	0.1360	11.0132	0.1324	11.1456	2.9660	0.1249	3.0909		14,229.5752	14,229.5752	0.4322	1.2232	14,604.8864

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2024

Unmitigated Construction On-Site

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

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	0.4052	16.0039	4.7909	0.0613	1.9759	0.0844	2.0603	0.5687	0.0808	0.6495		6,581.6772	6,581.6772	0.1603	0.9685	6,874.2918
Worker	3.3184	2.1011	26.3000	0.0711	9.0371	0.0444	9.0815	2.3972	0.0409	2.4380		7,333.7277	7,333.7277	0.2427	0.2214	7,405.7722
Total	3.7236	18.1050	31.0909	0.1324	11.0130	0.1288	11.1418	2.9659	0.1216	3.0875		13,915.4049	13,915.4049	0.4030	1.1899	14,280.0640

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

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

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	0.4052	16.0039	4.7909	0.0613	1.9759	0.0844	2.0603	0.5687	0.0808	0.6495		6,581.6772	6,581.6772	0.1603	0.9685	6,874.2918
Worker	3.3184	2.1011	26.3000	0.0711	9.0371	0.0444	9.0815	2.3972	0.0409	2.4380		7,333.7277	7,333.7277	0.2427	0.2214	7,405.7722
Total	3.7236	18.1050	31.0909	0.1324	11.0130	0.1288	11.1418	2.9659	0.1216	3.0875		13,915.4049	13,915.4049	0.4030	1.1899	14,280.0640

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3900	15.6828	4.6780	0.0601	1.9757	0.0827	2.0584	0.5686	0.0791	0.6477		6,448.944 1	6,448.944 1	0.1569	0.9506	6,736.154 2
Worker	3.1194	1.8852	24.6446	0.0687	9.0371	0.0424	9.0795	2.3972	0.0390	2.4362		7,156.799 1	7,156.799 1	0.2208	0.2069	7,223.986 1
Total	3.5094	17.5681	29.3225	0.1288	11.0128	0.1251	11.1379	2.9658	0.1181	3.0839		13,605.74 32	13,605.74 32	0.3777	1.1576	13,960.14 03

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3900	15.6828	4.6780	0.0601	1.9757	0.0827	2.0584	0.5686	0.0791	0.6477		6,448.944 1	6,448.944 1	0.1569	0.9506	6,736.154 2
Worker	3.1194	1.8852	24.6446	0.0687	9.0371	0.0424	9.0795	2.3972	0.0390	2.4362		7,156.799 1	7,156.799 1	0.2208	0.2069	7,223.986 1
Total	3.5094	17.5681	29.3225	0.1288	11.0128	0.1251	11.1379	2.9658	0.1181	3.0839		13,605.74 32	13,605.74 32	0.3777	1.1576	13,960.14 03

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3756	15.3681	4.5837	0.0589	1.9755	0.0806	2.0561	0.5686	0.0771	0.6457		6,319.572 9	6,319.572 9	0.1535	0.9334	6,601.546 4
Worker	2.9464	1.7087	23.2390	0.0665	9.0371	0.0404	9.0775	2.3972	0.0372	2.4344		6,987.180 8	6,987.180 8	0.2018	0.1949	7,050.316 4
Total	3.3219	17.0768	27.8226	0.1254	11.0126	0.1210	11.1336	2.9657	0.1143	3.0801		13,306.75 37	13,306.75 37	0.3552	1.1283	13,651.86 28

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3756	15.3681	4.5837	0.0589	1.9755	0.0806	2.0561	0.5686	0.0771	0.6457		6,319.572 9	6,319.572 9	0.1535	0.9334	6,601.546 4
Worker	2.9464	1.7087	23.2390	0.0665	9.0371	0.0404	9.0775	2.3972	0.0372	2.4344		6,987.180 8	6,987.180 8	0.2018	0.1949	7,050.316 4
Total	3.3219	17.0768	27.8226	0.1254	11.0126	0.1210	11.1336	2.9657	0.1143	3.0801		13,306.75 37	13,306.75 37	0.3552	1.1283	13,651.86 28

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	28.0612	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.7103	0.4728	5.6491	0.0147	1.8105	9.3300e-003	1.8198	0.4802	8.5900e-003	0.4888		1,506.7260	1,506.7260	0.0535	0.0477	1,522.2815
Total	0.7103	0.4728	5.6491	0.0147	1.8105	9.3300e-003	1.8198	0.4802	8.5900e-003	0.4888		1,506.7260	1,506.7260	0.0535	0.0477	1,522.2815

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	28.0612	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.7103	0.4728	5.6491	0.0147	1.8105	9.3300e-003	1.8198	0.4802	8.5900e-003	0.4888		1,506.7260	1,506.7260	0.0535	0.0477	1,522.2815
Total	0.7103	0.4728	5.6491	0.0147	1.8105	9.3300e-003	1.8198	0.4802	8.5900e-003	0.4888		1,506.7260	1,506.7260	0.0535	0.0477	1,522.2815

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	28.0503	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.6648	0.4209	5.2689	0.0142	1.8105	8.8900e-003	1.8194	0.4802	8.1800e-003	0.4884		1,469.2148	1,469.2148	0.0486	0.0444	1,483.6480
Total	0.6648	0.4209	5.2689	0.0142	1.8105	8.8900e-003	1.8194	0.4802	8.1800e-003	0.4884		1,469.2148	1,469.2148	0.0486	0.0444	1,483.6480

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	28.0503	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.6648	0.4209	5.2689	0.0142	1.8105	8.8900e-003	1.8194	0.4802	8.1800e-003	0.4884		1,469.2148	1,469.2148	0.0486	0.0444	1,483.6480
Total	0.6648	0.4209	5.2689	0.0142	1.8105	8.8900e-003	1.8194	0.4802	8.1800e-003	0.4884		1,469.2148	1,469.2148	0.0486	0.0444	1,483.6480

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	28.0404	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.6249	0.3777	4.9372	0.0138	1.8105	8.5000e-003	1.8190	0.4802	7.8200e-003	0.4881		1,433.7695	1,433.7695	0.0442	0.0415	1,447.2296
Total	0.6249	0.3777	4.9372	0.0138	1.8105	8.5000e-003	1.8190	0.4802	7.8200e-003	0.4881		1,433.7695	1,433.7695	0.0442	0.0415	1,447.2296

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2025

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	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	28.0404	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.6249	0.3777	4.9372	0.0138	1.8105	8.5000e-003	1.8190	0.4802	7.8200e-003	0.4881		1,433.7695	1,433.7695	0.0442	0.0415	1,447.2296
Total	0.6249	0.3777	4.9372	0.0138	1.8105	8.5000e-003	1.8190	0.4802	7.8200e-003	0.4881		1,433.7695	1,433.7695	0.0442	0.0415	1,447.2296

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	28.0404	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.5903	0.3423	4.6556	0.0133	1.8105	8.1000e-003	1.8186	0.4802	7.4600e-003	0.4877		1,399.7888	1,399.7888	0.0404	0.0391	1,412.4371
Total	0.5903	0.3423	4.6556	0.0133	1.8105	8.1000e-003	1.8186	0.4802	7.4600e-003	0.4877		1,399.7888	1,399.7888	0.0404	0.0391	1,412.4371

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2026

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	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	28.0404	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.5903	0.3423	4.6556	0.0133	1.8105	8.1000e-003	1.8186	0.4802	7.4600e-003	0.4877		1,399.7888	1,399.7888	0.0404	0.0391	1,412.4371
Total	0.5903	0.3423	4.6556	0.0133	1.8105	8.1000e-003	1.8186	0.4802	7.4600e-003	0.4877		1,399.7888	1,399.7888	0.0404	0.0391	1,412.4371

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.4090	32.7695	241.2783	0.4548	52.5890	0.3654	52.9544	14.0175	0.3412	14.3587		47,855.2603	47,855.2603	3.6353	2.5294	48,699.9096
Unmitigated	25.8713	36.0284	263.9589	0.5135	59.6248	0.4086	60.0333	15.8929	0.3816	16.2745		54,034.5515	54,034.5515	3.9247	2.7784	54,960.6401

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,552.49	2,552.49	2552.49	7,377,104	6,506,606
City Park	79.02	79.02	79.02	199,483	175,944
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	3,342.08	3,342.08	3342.08	9,659,146	8,519,367
Strip Mall	4,964.34	4,964.34	4964.34	11,049,926	9,746,035
Total	10,937.93	10,937.93	10,937.93	28,285,660	24,947,952

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

4.3 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
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	100	0	0
City Park	10.00	5.00	6.50	33.00	48.00	19.00	100	0	0
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	100	0	0
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
City Park	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Other Asphalt Surfaces	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Single Family Housing	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Strip Mall	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Natural Gas Mitigated	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Natural Gas Unmitigated	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063

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					
Apartments Low Rise	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
City Park	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Strip Mall	341.425	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Total		3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

5.2 Energy by Land Use - NaturalGas

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					
Apartments Low Rise	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
City Park	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Strip Mall	0.341425	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Total		3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	40.5456	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218
Unmitigated	42.6391	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218

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	5.4975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	34.2723					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8693	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301		172.1983	172.1983	0.1649		176.3218
Total	42.6391	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	32.1788					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8693	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301		172.1983	172.1983	0.1649		176.3218
Total	40.5456	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218

7.0 Water Detail

7.1 Mitigation Measures Water

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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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11.0 Vegetation

Stone Beetland Project

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

Sacramento Metropolitan AQMD Air District, Mitigation Report

Construction Mitigation Summary

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

OFFROAD Equipment Mitigation

Stone Beetland Project

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

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Stone Beetland Project

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	6.28600E-002	4.22380E-001	6.51420E-001	1.07000E-003	1.98200E-002	1.98200E-002	0.00000E+000	9.19171E+001	9.19171E+001	5.08000E-003	0.00000E+000	9.20440E+001
Cranes	1.00960E-001	1.04070E+000	5.52010E-001	1.82000E-003	4.38600E-002	4.03500E-002	0.00000E+000	1.59690E+002	1.59690E+002	5.16500E-002	0.00000E+000	1.60981E+002
Excavators	1.50900E-002	1.23890E-001	2.60620E-001	4.10000E-004	6.06000E-003	5.58000E-003	0.00000E+000	3.62951E+001	3.62951E+001	1.17400E-002	0.00000E+000	3.65885E+001
Forklifts	9.70600E-002	9.12740E-001	1.22688E+000	1.65000E-003	5.05000E-002	4.64600E-002	0.00000E+000	1.45035E+002	1.45035E+002	4.69100E-002	0.00000E+000	1.46207E+002
Generator Sets	9.86400E-002	8.84290E-001	1.31807E+000	2.37000E-003	3.65900E-002	3.65900E-002	0.00000E+000	2.03475E+002	2.03475E+002	7.81000E-003	0.00000E+000	2.03670E+002
Graders	1.53400E-002	1.86120E-001	6.77000E-002	2.60000E-004	6.03000E-003	5.55000E-003	0.00000E+000	2.32550E+001	2.32550E+001	7.52000E-003	0.00000E+000	2.34430E+001
Pavers	1.15200E-002	1.12970E-001	1.72990E-001	2.80000E-004	5.31000E-003	4.89000E-003	0.00000E+000	2.47780E+001	2.47780E+001	8.01000E-003	0.00000E+000	2.49783E+001
Paving Equipment	1.02400E-002	9.61800E-002	1.53400E-001	2.40000E-004	4.68000E-003	4.30000E-003	0.00000E+000	2.14713E+001	2.14713E+001	6.94000E-003	0.00000E+000	2.16449E+001
Rollers	9.22000E-003	9.66100E-002	1.11130E-001	1.60000E-004	5.32000E-003	4.89000E-003	0.00000E+000	1.38314E+001	1.38314E+001	4.47000E-003	0.00000E+000	1.39432E+001
Rubber Tired Dozers	4.79300E-002	4.98900E-001	2.17440E-001	6.00000E-004	2.24600E-002	2.06700E-002	0.00000E+000	5.25170E+001	5.25170E+001	1.69900E-002	0.00000E+000	5.29416E+001
Scrapers	6.29400E-002	6.62670E-001	4.90960E-001	1.21000E-003	2.59800E-002	2.39000E-002	0.00000E+000	1.06694E+002	1.06694E+002	3.45100E-002	0.00000E+000	1.07557E+002
Tractors/Loaders/Backhoes	1.47460E-001	1.48881E+000	2.37686E+000	3.32000E-003	6.49000E-002	5.97100E-002	0.00000E+000	2.91681E+002	2.91681E+002	9.43400E-002	0.00000E+000	2.94039E+002
Welders	8.14900E-002	4.88800E-001	5.96370E-001	9.20000E-004	1.56900E-002	1.56900E-002	0.00000E+000	6.77594E+001	6.77594E+001	6.63000E-003	0.00000E+000	6.79252E+001

Stone Beetland Project

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	6.28600E-002	4.22380E-001	6.51420E-001	1.07000E-003	1.98200E-002	1.98200E-002	0.00000E+000	9.19170E+001	9.19170E+001	5.08000E-003	0.00000E+000	9.20439E+001
Cranes	1.00960E-001	1.04070E+000	5.52010E-001	1.82000E-003	4.38600E-002	4.03500E-002	0.00000E+000	1.59690E+002	1.59690E+002	5.16500E-002	0.00000E+000	1.60981E+002
Excavators	1.50900E-002	1.23890E-001	2.60620E-001	4.10000E-004	6.06000E-003	5.58000E-003	0.00000E+000	3.62950E+001	3.62950E+001	1.17400E-002	0.00000E+000	3.65885E+001
Forklifts	9.70600E-002	9.12730E-001	1.22688E+000	1.65000E-003	5.05000E-002	4.64600E-002	0.00000E+000	1.45034E+002	1.45034E+002	4.69100E-002	0.00000E+000	1.46207E+002
Generator Sets	9.86400E-002	8.84290E-001	1.31807E+000	2.37000E-003	3.65900E-002	3.65900E-002	0.00000E+000	2.03474E+002	2.03474E+002	7.81000E-003	0.00000E+000	2.03670E+002
Graders	1.53400E-002	1.86120E-001	6.77000E-002	2.60000E-004	6.03000E-003	5.55000E-003	0.00000E+000	2.32549E+001	2.32549E+001	7.52000E-003	0.00000E+000	2.34430E+001
Pavers	1.15200E-002	1.12970E-001	1.72990E-001	2.80000E-004	5.31000E-003	4.89000E-003	0.00000E+000	2.47779E+001	2.47779E+001	8.01000E-003	0.00000E+000	2.49783E+001
Paving Equipment	1.02400E-002	9.61800E-002	1.53400E-001	2.40000E-004	4.68000E-003	4.30000E-003	0.00000E+000	2.14712E+001	2.14712E+001	6.94000E-003	0.00000E+000	2.16449E+001
Rollers	9.22000E-003	9.66100E-002	1.11130E-001	1.60000E-004	5.32000E-003	4.89000E-003	0.00000E+000	1.38313E+001	1.38313E+001	4.47000E-003	0.00000E+000	1.39432E+001
Rubber Tired Dozers	4.79300E-002	4.98900E-001	2.17440E-001	6.00000E-004	2.24600E-002	2.06700E-002	0.00000E+000	5.25169E+001	5.25169E+001	1.69900E-002	0.00000E+000	5.29415E+001
Scrapers	6.29400E-002	6.62670E-001	4.90960E-001	1.21000E-003	2.59800E-002	2.39000E-002	0.00000E+000	1.06694E+002	1.06694E+002	3.45100E-002	0.00000E+000	1.07557E+002
Tractors/Loaders/Balckhoes	1.47460E-001	1.48880E+000	2.37686E+000	3.32000E-003	6.49000E-002	5.97100E-002	0.00000E+000	2.91681E+002	2.91681E+002	9.43400E-002	0.00000E+000	2.94039E+002
Welders	8.14900E-002	4.88800E-001	5.96370E-001	9.20000E-004	1.56900E-002	1.56900E-002	0.00000E+000	6.77594E+001	6.77594E+001	6.63000E-003	0.00000E+000	6.79251E+001

Stone Beetland Project

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.08794E-006	1.08794E-006	0.00000E+000	0.00000E+000	1.19508E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18981E-006	1.18981E-006	0.00000E+000	0.00000E+000	1.18026E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.37760E-006	1.37760E-006	0.00000E+000	0.00000E+000	1.09324E-006
Forklifts	0.00000E+000	1.09560E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.24108E-006	1.24108E-006	0.00000E+000	0.00000E+000	1.16273E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.22748E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.29005E-006	1.29005E-006	0.00000E+000	0.00000E+000	1.27970E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21075E-006	1.21075E-006	0.00000E+000	0.00000E+000	1.20104E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.39722E-006	1.39722E-006	0.00000E+000	0.00000E+000	1.38601E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.44599E-006	1.44599E-006	0.00000E+000	0.00000E+000	1.43439E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14249E-006	1.14249E-006	0.00000E+000	0.00000E+000	1.32221E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12471E-006	1.12471E-006	0.00000E+000	0.00000E+000	1.20866E-006
Tractors/Loaders/Balckhoes	0.00000E+000	6.71677E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16566E-006	1.16566E-006	0.00000E+000	0.00000E+000	1.19032E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18065E-006	1.18065E-006	0.00000E+000	0.00000E+000	1.32499E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
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Stone Beetland Project

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

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

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.63	0.17	0.63	0.17	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	3.83	1.04	3.83	1.04	0.00	0.00
Grading	Fugitive Dust	0.38	0.15	0.38	0.15	0.00	0.00
Grading	Roads	0.13	0.04	0.13	0.04	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.20	0.10	0.20	0.10	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Stone Beetland Project

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

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	5.22	9.09	9.03	11.45	10.59	10.60	0.00	11.45	11.45	7.77	9.05	11.41
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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

Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
Yes	Land Use	Increase Density	0.00	20.90	0.00	
Yes	Land Use	Increase Diversity	0.30	0.66		
No	Land Use	Improve Walkability Design	0.00	0.00		
Yes	Land Use	Improve Destination Accessibility	0.03	10.30		
Yes	Land Use	Increase Transit Accessibility	0.24	0.01		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.10			

Stone Beetland Project

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

Yes	Neighborhood Enhancements	Improve Pedestrian Network	2.00	Project Site and Connecting Off-Site	
No	Neighborhood Enhancements	Provide Traffic Calming Measures	0.00		
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.02		
Yes	Parking Policy Pricing	Limit Parking Supply	0.00	0.00	
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00	
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00	
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00	0.00	
No	Transit Improvements	Expand Transit Network	0.00	0.00	
No	Transit Improvements	Increase Transit Frequency	0.00		0.00
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.12		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"	4.50		
No	Commute	Workplace Parking Charge		0.00	
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00

Stone Beetland Project

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

No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.12		

Area Mitigation

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

Energy Mitigation Measures

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

Stone Beetland Project

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

No	Install High Efficiency Lighting		
No	On-site Renewable		

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

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
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

Stone Beetland Project

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

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

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

Stone Beetland Project

Sacramento Metropolitan AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	17.70	Acre	17.70	771,012.00	0
City Park	8.80	Acre	8.80	383,328.00	0
Apartments Low Rise	711.00	Dwelling Unit	18.00	711,000.00	1898
Single Family Housing	448.00	Dwelling Unit	55.90	806,400.00	1196
Strip Mall	93.00	1000sqft	6.20	93,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2026
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreages adjusted per site plan.

Construction Phase - Phase timing adjusted per AQ Questionnaire.

Grading - Based on applicant-provided AQ Questionnaire.

Vehicle Trips - Trip generation rate adjusted to be consistent with project-specific traffic report (Fehr and Peers)

Consumer Products - Based on CARB now regulation of consumer products.

Energy Use - Off-model calculation done to convert natural gas usage to electricity based on assumption that residential would be all electric and commercial would be 75% electric.

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

Mobile Land Use Mitigation - Based on AQ Questionnaire.

Area Mitigation - Project-specific MM I-1 would required the use of zero VOC paint.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	0
tblConstructionPhase	NumDays	120.00	20.00
tblConstructionPhase	NumDays	310.00	80.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	3,100.00	720.00
tblConstructionPhase	NumDays	220.00	720.00
tblConsumerProducts	ROG_EF	2.14E-05	2.11E-05
tblEnergyUse	NT24E	3,172.76	3,524.82
tblEnergyUse	NT24E	6,155.97	6,508.03
tblEnergyUse	NT24E	2.98	3.07
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	0.93	0.23
tblEnergyUse	T24E	108.87	1,284.05
tblEnergyUse	T24E	142.58	2,890.34
tblEnergyUse	T24E	2.91	3.35
tblEnergyUse	T24NG	8,969.37	0.00
tblEnergyUse	T24NG	20,971.81	0.00
tblEnergyUse	T24NG	4.44	1.11
tblGrading	MaterialImported	0.00	120,000.00

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

tblLandUse	LotAcreage	44.44	18.00
tblLandUse	LotAcreage	145.45	55.90
tblLandUse	LotAcreage	2.13	6.20
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	3.59
tblVehicleTrips	ST_TR	1.96	8.98
tblVehicleTrips	ST_TR	9.54	7.46
tblVehicleTrips	ST_TR	42.04	53.38
tblVehicleTrips	SU_TR	6.28	3.59
tblVehicleTrips	SU_TR	2.19	8.98
tblVehicleTrips	SU_TR	8.55	7.46
tblVehicleTrips	SU_TR	20.43	53.38
tblVehicleTrips	WD_TR	7.32	3.59
tblVehicleTrips	WD_TR	0.78	8.98
tblVehicleTrips	WD_TR	9.44	7.46
tblVehicleTrips	WD_TR	44.32	53.38

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3501	3.4060	2.3992	9.6300e-003	0.7987	0.1002	0.8988	0.3094	0.0926	0.4020	0.0000	905.7268	905.7268	0.1267	0.0824	933.4554
2024	4.4220	4.2688	7.0201	0.0234	1.6235	0.1063	1.7298	0.4376	0.1005	0.5381	0.0000	2,192.1108	2,192.1108	0.1244	0.1442	2,238.1970
2025	4.3579	4.0441	6.7074	0.0228	1.6173	0.0929	1.7102	0.4359	0.0879	0.5238	0.0000	2,142.2258	2,142.2258	0.1202	0.1397	2,186.8467
2026	3.1621	2.7817	4.5473	0.0156	1.1365	0.0647	1.2012	0.3063	0.0612	0.3675	0.0000	1,473.6223	1,473.6223	0.0820	0.0950	1,503.9888
Maximum	4.4220	4.2688	7.0201	0.0234	1.6235	0.1063	1.7298	0.4376	0.1005	0.5381	0.0000	2,192.1108	2,192.1108	0.1267	0.1442	2,238.1970

Mitigated

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

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3501	3.4060	2.3992	9.6300e-003	0.7987	0.1002	0.8988	0.3094	0.0926	0.4020	0.0000	905.7264	905.7264	0.1267	0.0824	933.4550
2024	4.4220	4.2688	7.0201	0.0234	1.6235	0.1063	1.7298	0.4376	0.1005	0.5381	0.0000	2,192.1104	2,192.1104	0.1244	0.1442	2,238.1966
2025	4.3579	4.0441	6.7074	0.0228	1.6173	0.0929	1.7102	0.4359	0.0879	0.5238	0.0000	2,142.2254	2,142.2254	0.1202	0.1397	2,186.8463
2026	3.1621	2.7817	4.5473	0.0156	1.1365	0.0647	1.2012	0.3063	0.0612	0.3675	0.0000	1,473.6220	1,473.6220	0.0820	0.0950	1,503.9885
Maximum	4.4220	4.2688	7.0201	0.0234	1.6235	0.1063	1.7298	0.4376	0.1005	0.5381	0.0000	2,192.1104	2,192.1104	0.1267	0.1442	2,238.1966

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2023	7-31-2023	1.8517	1.8517
2	8-1-2023	10-31-2023	1.2929	1.2929
3	11-1-2023	1-31-2024	1.3221	1.3221
4	2-1-2024	4-30-2024	2.1454	2.1454
5	5-1-2024	7-31-2024	2.1697	2.1697
6	8-1-2024	10-31-2024	2.1815	2.1815
7	11-1-2024	1-31-2025	2.1826	2.1826
8	2-1-2025	4-30-2025	2.0583	2.0583

Mitigated

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9	5-1-2025	7-31-2025	2.1052	2.1052
10	8-1-2025	10-31-2025	2.1166	2.1166
11	11-1-2025	1-31-2026	2.1308	2.1308
12	2-1-2026	4-30-2026	2.0347	2.0347
13	5-1-2026	7-31-2026	2.0814	2.0814
14	8-1-2026	9-30-2026	1.1008	1.1008
		Highest	2.1826	2.1826

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	7.6167	0.1376	11.9426	6.3000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.5270	19.5270	0.0187	0.0000	19.9946
Energy	6.7000e-004	6.1100e-003	5.1300e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	1,633.5463	1,633.5463	0.1501	0.0183	1,642.7524
Mobile	4.8962	6.1593	44.9836	0.0951	10.4803	0.0742	10.5545	2.8013	0.0693	2.8707	0.0000	9,081.5221	9,081.5221	0.6041	0.4381	9,227.1729
Waste						0.0000	0.0000		0.0000	0.0000	173.7664	0.0000	173.7664	10.2693	0.0000	430.4988
Water						0.0000	0.0000		0.0000	0.0000	29.1541	102.0823	131.2364	0.1098	0.0645	153.2135
Total	12.5135	6.3029	56.9313	0.0958	10.4803	0.1409	10.6212	2.8013	0.1360	2.9374	202.9204	10,836.6778	11,039.5982	11.1520	0.5209	11,473.6323

Mitigated

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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	6.2313	0.1376	11.9426	6.3000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.5270	19.5270	0.0187	0.0000	19.9946
Energy	6.7000e-004	6.1100e-003	5.1300e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	1,633.5463	1,633.5463	0.1501	0.0183	1,642.7524
Mobile	4.6404	5.5993	40.9196	0.0842	9.2436	0.0664	9.3100	2.4708	0.0620	2.5328	0.0000	8,041.7960	8,041.7960	0.5572	0.3984	8,174.4597
Waste						0.0000	0.0000		0.0000	0.0000	173.7664	0.0000	173.7664	10.2693	0.0000	430.4988
Water						0.0000	0.0000		0.0000	0.0000	29.1541	102.0823	131.2364	0.1098	0.0645	153.2135
Total	10.8724	5.7429	52.8673	0.0849	9.2436	0.1331	9.3767	2.4708	0.1287	2.5995	202.9204	9,796.9516	9,999.8720	11.1050	0.4813	10,420.9191

	ROG	NOx	CO	SO2	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	13.12	8.89	7.14	11.37	11.80	5.58	11.72	11.80	5.40	11.50	0.00	9.59	9.42	0.42	7.61	9.18

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	5/1/2023	5/26/2023	5	20	
2	Grading	Grading	5/27/2023	9/15/2023	5	80	
3	Paving	Paving	9/16/2023	12/8/2023	5	60	

Mitigated

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4	Building Construction	Building Construction	12/9/2023	9/11/2026	5	720
5	Architectural Coating	Architectural Coating	12/23/2023	9/25/2026	5	720

Acres of Grading (Site Preparation Phase): 30

Acres of Grading (Grading Phase): 240

Acres of Paving: 17.7

Residential Indoor: 3,072,735; Residential Outdoor: 1,024,245; Non-Residential Indoor: 139,500; Non-Residential Outdoor: 46,500; Striped Parking Area: 46,261 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Mitigated

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	15,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,188.00	328.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	238.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1966	0.0000	0.1966	0.1010	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.2752	0.1824	3.8000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	33.4507	33.4507	0.0108	0.0000	33.7212
Total	0.0266	0.2752	0.1824	3.8000e-004	0.1966	0.0127	0.2092	0.1010	0.0117	0.1127	0.0000	33.4507	33.4507	0.0108	0.0000	33.7212

Mitigated

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

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.2000e-004	4.2000e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0605	1.0605	3.0000e-005	3.0000e-005	1.0704
Total	5.2000e-004	3.2000e-004	4.2000e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0605	1.0605	3.0000e-005	3.0000e-005	1.0704

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1966	0.0000	0.1966	0.1010	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.2752	0.1824	3.8000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	33.4507	33.4507	0.0108	0.0000	33.7211
Total	0.0266	0.2752	0.1824	3.8000e-004	0.1966	0.0127	0.2092	0.1010	0.0117	0.1127	0.0000	33.4507	33.4507	0.0108	0.0000	33.7211

Mitigated

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3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.2000e-004	4.2000e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0605	1.0605	3.0000e-005	3.0000e-005	1.0704
Total	5.2000e-004	3.2000e-004	4.2000e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0605	1.0605	3.0000e-005	3.0000e-005	1.0704

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3806	0.0000	0.3806	0.1480	0.0000	0.1480	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1329	1.3806	1.1221	2.4800e-003		0.0570	0.0570		0.0524	0.0524	0.0000	218.1408	218.1408	0.0706	0.0000	219.9046
Total	0.1329	1.3806	1.1221	2.4800e-003	0.3806	0.0570	0.4375	0.1480	0.0524	0.2005	0.0000	218.1408	218.1408	0.0706	0.0000	219.9046

Mitigated

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3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0199	1.1940	0.2398	4.7100e-003	0.1269	8.7100e-003	0.1356	0.0349	8.3300e-003	0.0432	0.0000	465.9785	465.9785	0.0186	0.0739	488.4600
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2900e-003	1.4200e-003	0.0187	5.0000e-005	5.8800e-003	3.0000e-005	5.9100e-003	1.5600e-003	3.0000e-005	1.5900e-003	0.0000	4.7135	4.7135	1.5000e-004	1.3000e-004	4.7573
Total	0.0222	1.1954	0.2584	4.7600e-003	0.1327	8.7400e-003	0.1415	0.0364	8.3600e-003	0.0448	0.0000	470.6920	470.6920	0.0187	0.0740	493.2173

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3806	0.0000	0.3806	0.1480	0.0000	0.1480	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1329	1.3806	1.1221	2.4800e-003		0.0570	0.0570		0.0524	0.0524	0.0000	218.1406	218.1406	0.0706	0.0000	219.9044
Total	0.1329	1.3806	1.1221	2.4800e-003	0.3806	0.0570	0.4375	0.1480	0.0524	0.2005	0.0000	218.1406	218.1406	0.0706	0.0000	219.9044

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3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0199	1.1940	0.2398	4.7100e-003	0.1269	8.7100e-003	0.1356	0.0349	8.3300e-003	0.0432	0.0000	465.9785	465.9785	0.0186	0.0739	488.4600
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2900e-003	1.4200e-003	0.0187	5.0000e-005	5.8800e-003	3.0000e-005	5.9100e-003	1.5600e-003	3.0000e-005	1.5900e-003	0.0000	4.7135	4.7135	1.5000e-004	1.3000e-004	4.7573
Total	0.0222	1.1954	0.2584	4.7600e-003	0.1327	8.7400e-003	0.1415	0.0364	8.3600e-003	0.0448	0.0000	470.6920	470.6920	0.0187	0.0740	493.2173

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0310	0.3058	0.4375	6.8000e-004		0.0153	0.0153		0.0141	0.0141	0.0000	60.0806	60.0806	0.0194	0.0000	60.5664
Paving	0.0232					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0542	0.3058	0.4375	6.8000e-004		0.0153	0.0153		0.0141	0.0141	0.0000	60.0806	60.0806	0.0194	0.0000	60.5664

Mitigated

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3.4 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	8.0000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6513	2.6513	8.0000e-005	8.0000e-005	2.6760
Total	1.2900e-003	8.0000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6513	2.6513	8.0000e-005	8.0000e-005	2.6760

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	0.0310	0.3058	0.4375	6.8000e-004		0.0153	0.0153		0.0141	0.0141	0.0000	60.0805	60.0805	0.0194	0.0000	60.5663
Paving	0.0232					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0542	0.3058	0.4375	6.8000e-004		0.0153	0.0153		0.0141	0.0141	0.0000	60.0805	60.0805	0.0194	0.0000	60.5663

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

3.4 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	8.0000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6513	2.6513	8.0000e-005	8.0000e-005	2.6760
Total	1.2900e-003	8.0000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6513	2.6513	8.0000e-005	8.0000e-005	2.6760

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0118	0.1079	0.1218	2.0000e-004		5.2500e-003	5.2500e-003		4.9400e-003	4.9400e-003	0.0000	17.3854	17.3854	4.1400e-003	0.0000	17.4888
Total	0.0118	0.1079	0.1218	2.0000e-004		5.2500e-003	5.2500e-003		4.9400e-003	4.9400e-003	0.0000	17.3854	17.3854	4.1400e-003	0.0000	17.4888

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2100e-003	0.1199	0.0362	4.7000e-004	0.0144	6.4000e-004	0.0150	4.1600e-003	6.1000e-004	4.7700e-003	0.0000	45.6255	45.6255	1.1300e-003	6.6900e-003	47.6486
Worker	0.0256	0.0158	0.2077	5.7000e-004	0.0654	3.5000e-004	0.0658	0.0174	3.2000e-004	0.0177	0.0000	52.4961	52.4961	1.6600e-003	1.5000e-003	52.9847
Total	0.0288	0.1357	0.2439	1.0400e-003	0.0798	9.9000e-004	0.0808	0.0216	9.3000e-004	0.0225	0.0000	98.1215	98.1215	2.7900e-003	8.1900e-003	100.6333

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	0.0118	0.1079	0.1218	2.0000e-004		5.2500e-003	5.2500e-003		4.9400e-003	4.9400e-003	0.0000	17.3853	17.3853	4.1400e-003	0.0000	17.4887
Total	0.0118	0.1079	0.1218	2.0000e-004		5.2500e-003	5.2500e-003		4.9400e-003	4.9400e-003	0.0000	17.3853	17.3853	4.1400e-003	0.0000	17.4887

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2100e-003	0.1199	0.0362	4.7000e-004	0.0144	6.4000e-004	0.0150	4.1600e-003	6.1000e-004	4.7700e-003	0.0000	45.6255	45.6255	1.1300e-003	6.6900e-003	47.6486
Worker	0.0256	0.0158	0.2077	5.7000e-004	0.0654	3.5000e-004	0.0658	0.0174	3.2000e-004	0.0177	0.0000	52.4961	52.4961	1.6600e-003	1.5000e-003	52.9847
Total	0.0288	0.1357	0.2439	1.0400e-003	0.0798	9.9000e-004	0.0808	0.0216	9.3000e-004	0.0225	0.0000	98.1215	98.1215	2.7900e-003	8.1900e-003	100.6333

3.5 Building Construction - 2024

Unmitigated Construction On-Site

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

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0536	2.0530	0.6118	8.0300e-003	0.2515	0.0110	0.2625	0.0727	0.0105	0.0832	0.0000	781.7890	781.7890	0.0191	0.1150	816.5269
Worker	0.4174	0.2458	3.3768	9.5500e-003	1.1430	5.8100e-003	1.1488	0.3040	5.3500e-003	0.3094	0.0000	894.0424	894.0424	0.0263	0.0244	901.9616
Total	0.4710	2.2988	3.9886	0.0176	1.3945	0.0168	1.4113	0.3767	0.0159	0.3926	0.0000	1,675.8314	1,675.8314	0.0454	0.1393	1,718.4885

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

Mitigated

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

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0536	2.0530	0.6118	8.0300e-003	0.2515	0.0110	0.2625	0.0727	0.0105	0.0832	0.0000	781.7890	781.7890	0.0191	0.1150	816.5269
Worker	0.4174	0.2458	3.3768	9.5500e-003	1.1430	5.8100e-003	1.1488	0.3040	5.3500e-003	0.3094	0.0000	894.0424	894.0424	0.0263	0.0244	901.9616
Total	0.4710	2.2988	3.9886	0.0176	1.3945	0.0168	1.4113	0.3767	0.0159	0.3926	0.0000	1,675.8314	1,675.8314	0.0454	0.1393	1,718.4885

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0515	2.0036	0.5952	7.8400e-003	0.2505	0.0107	0.2613	0.0724	0.0103	0.0827	0.0000	763.0492	763.0492	0.0186	0.1124	797.0148
Worker	0.3905	0.2197	3.1467	9.2000e-003	1.1386	5.5300e-003	1.1442	0.3028	5.1000e-003	0.3079	0.0000	869.0909	869.0909	0.0238	0.0227	876.4483
Total	0.4420	2.2233	3.7419	0.0170	1.3892	0.0163	1.4054	0.3753	0.0154	0.3906	0.0000	1,632.1401	1,632.1401	0.0424	0.1351	1,673.4630

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Mitigated

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

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0515	2.0036	0.5952	7.8400e-003	0.2505	0.0107	0.2613	0.0724	0.0103	0.0827	0.0000	763.0492	763.0492	0.0186	0.1124	797.0148
Worker	0.3905	0.2197	3.1467	9.2000e-003	1.1386	5.5300e-003	1.1442	0.3028	5.1000e-003	0.3079	0.0000	869.0909	869.0909	0.0238	0.0227	876.4483
Total	0.4420	2.2233	3.7419	0.0170	1.3892	0.0163	1.4054	0.3753	0.0154	0.3906	0.0000	1,632.1401	1,632.1401	0.0424	0.1351	1,673.4630

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1244	1.1347	1.4637	2.4500e-003		0.0480	0.0480		0.0452	0.0452	0.0000	211.0467	211.0467	0.0496	0.0000	212.2870
Total	0.1244	1.1347	1.4637	2.4500e-003		0.0480	0.0480		0.0452	0.0452	0.0000	211.0467	211.0467	0.0496	0.0000	212.2870

Mitigated

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

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0346	1.3688	0.4068	5.3500e-003	0.1747	7.3000e-003	0.1820	0.0505	6.9800e-003	0.0575	0.0000	521.3816	521.3816	0.0127	0.0770	544.6341
Worker	0.2569	0.1389	2.0664	6.2100e-003	0.7940	3.6800e-003	0.7977	0.2112	3.3900e-003	0.2146	0.0000	591.6426	591.6426	0.0152	0.0149	596.4639
Total	0.2915	1.5076	2.4732	0.0116	0.9687	0.0110	0.9796	0.2617	0.0104	0.2720	0.0000	1,113.0241	1,113.0241	0.0279	0.0919	1,141.0980

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	0.1244	1.1347	1.4637	2.4500e-003		0.0480	0.0480		0.0452	0.0452	0.0000	211.0465	211.0465	0.0496	0.0000	212.2867
Total	0.1244	1.1347	1.4637	2.4500e-003		0.0480	0.0480		0.0452	0.0452	0.0000	211.0465	211.0465	0.0496	0.0000	212.2867

Mitigated

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

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0346	1.3688	0.4068	5.3500e-003	0.1747	7.3000e-003	0.1820	0.0505	6.9800e-003	0.0575	0.0000	521.3816	521.3816	0.0127	0.0770	544.6341
Worker	0.2569	0.1389	2.0664	6.2100e-003	0.7940	3.6800e-003	0.7977	0.2112	3.3900e-003	0.2146	0.0000	591.6426	591.6426	0.0152	0.0149	596.4639
Total	0.2915	1.5076	2.4732	0.0116	0.9687	0.0110	0.9796	0.2617	0.0104	0.2720	0.0000	1,113.0241	1,113.0241	0.0279	0.0919	1,141.0980

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0697					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e-004	3.2600e-003	4.5300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393
Total	0.0702	3.2600e-003	4.5300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393

Mitigated

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3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7100e-003	1.0600e-003	0.0139	4.0000e-005	4.3700e-003	2.0000e-005	4.3900e-003	1.1600e-003	2.0000e-005	1.1800e-003	0.0000	3.5056	3.5056	1.1000e-004	1.0000e-004	3.5383
Total	1.7100e-003	1.0600e-003	0.0139	4.0000e-005	4.3700e-003	2.0000e-005	4.3900e-003	1.1600e-003	2.0000e-005	1.1800e-003	0.0000	3.5056	3.5056	1.1000e-004	1.0000e-004	3.5383

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	0.0697					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e-004	3.2600e-003	4.5300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393
Total	0.0702	3.2600e-003	4.5300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393

Mitigated

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

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7100e-003	1.0600e-003	0.0139	4.0000e-005	4.3700e-003	2.0000e-005	4.3900e-003	1.1600e-003	2.0000e-005	1.1800e-003	0.0000	3.5056	3.5056	1.1000e-004	1.0000e-004	3.5383
Total	1.7100e-003	1.0600e-003	0.0139	4.0000e-005	4.3700e-003	2.0000e-005	4.3900e-003	1.1600e-003	2.0000e-005	1.1800e-003	0.0000	3.5056	3.5056	1.1000e-004	1.0000e-004	3.5383

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.6509					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
Total	3.6746	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947

Mitigated

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3.6 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0836	0.0492	0.6765	1.9100e-003	0.2290	1.1600e-003	0.2302	0.0609	1.0700e-003	0.0620	0.0000	179.1095	179.1095	5.2700e-003	4.8800e-003	180.6960
Total	0.0836	0.0492	0.6765	1.9100e-003	0.2290	1.1600e-003	0.2302	0.0609	1.0700e-003	0.0620	0.0000	179.1095	179.1095	5.2700e-003	4.8800e-003	180.6960

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	3.6509					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
Total	3.6746	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947

Mitigated

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3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0836	0.0492	0.6765	1.9100e-003	0.2290	1.1600e-003	0.2302	0.0609	1.0700e-003	0.0620	0.0000	179.1095	179.1095	5.2700e-003	4.8800e-003	180.6960
Total	0.0836	0.0492	0.6765	1.9100e-003	0.2290	1.1600e-003	0.2302	0.0609	1.0700e-003	0.0620	0.0000	179.1095	179.1095	5.2700e-003	4.8800e-003	180.6960

3.6 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.6370					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	3.6593	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654

Mitigated

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3.6 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0782	0.0440	0.6304	1.8400e-003	0.2281	1.1100e-003	0.2292	0.0607	1.0200e-003	0.0617	0.0000	174.1108	174.1108	4.7700e-003	4.5500e-003	175.5848
Total	0.0782	0.0440	0.6304	1.8400e-003	0.2281	1.1100e-003	0.2292	0.0607	1.0200e-003	0.0617	0.0000	174.1108	174.1108	4.7700e-003	4.5500e-003	175.5848

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	3.6370					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	3.6593	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654

Mitigated

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

3.6 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0782	0.0440	0.6304	1.8400e-003	0.2281	1.1100e-003	0.2292	0.0607	1.0200e-003	0.0617	0.0000	174.1108	174.1108	4.7700e-003	4.5500e-003	175.5848
Total	0.0782	0.0440	0.6304	1.8400e-003	0.2281	1.1100e-003	0.2292	0.0607	1.0200e-003	0.0617	0.0000	174.1108	174.1108	4.7700e-003	4.5500e-003	175.5848

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6755					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0164	0.1100	0.1737	2.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	24.5112	24.5112	1.3400e-003	0.0000	24.5447
Total	2.6919	0.1100	0.1737	2.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	24.5112	24.5112	1.3400e-003	0.0000	24.5447

Mitigated

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

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0543	0.0293	0.4367	1.3100e-003	0.1678	7.8000e-004	0.1686	0.0446	7.2000e-004	0.0454	0.0000	125.0402	125.0402	3.2000e-003	3.1500e-003	126.0592
Total	0.0543	0.0293	0.4367	1.3100e-003	0.1678	7.8000e-004	0.1686	0.0446	7.2000e-004	0.0454	0.0000	125.0402	125.0402	3.2000e-003	3.1500e-003	126.0592

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	2.6755					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0164	0.1100	0.1737	2.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	24.5112	24.5112	1.3400e-003	0.0000	24.5446
Total	2.6919	0.1100	0.1737	2.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	24.5112	24.5112	1.3400e-003	0.0000	24.5446

Mitigated

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3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0543	0.0293	0.4367	1.3100e-003	0.1678	7.8000e-004	0.1686	0.0446	7.2000e-004	0.0454	0.0000	125.0402	125.0402	3.2000e-003	3.1500e-003	126.0592
Total	0.0543	0.0293	0.4367	1.3100e-003	0.1678	7.8000e-004	0.1686	0.0446	7.2000e-004	0.0454	0.0000	125.0402	125.0402	3.2000e-003	3.1500e-003	126.0592

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Mitigated

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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
Category	tons/yr										MT/yr					
Mitigated	4.6404	5.5993	40.9196	0.0842	9.2436	0.0664	9.3100	2.4708	0.0620	2.5328	0.0000	8,041.7960	8,041.7960	0.5572	0.3984	8,174.4597
Unmitigated	4.8962	6.1593	44.9836	0.0951	10.4803	0.0742	10.5545	2.8013	0.0693	2.8707	0.0000	9,081.5221	9,081.5221	0.6041	0.4381	9,227.1729

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,552.49	2,552.49	2552.49	7,377,104	6,506,606
City Park	79.02	79.02	79.02	199,483	175,944
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	3,342.08	3,342.08	3342.08	9,659,146	8,519,367
Strip Mall	4,964.34	4,964.34	4964.34	11,049,926	9,746,035
Total	10,937.93	10,937.93	10,937.93	28,285,660	24,947,952

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
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	100	0	0
City Park	10.00	5.00	6.50	33.00	48.00	19.00	100	0	0
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	100	0	0
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Mitigated

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
City Park	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Other Asphalt Surfaces	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Single Family Housing	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Strip Mall	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071

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	1,626.896 2	1,626.896 2	0.1500	0.0182	1,636.062 7
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,626.896 2	1,626.896 2	0.1500	0.0182	1,636.062 7
NaturalGas Mitigated	6.7000e-004	6.1100e-003	5.1300e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.6502	6.6502	1.3000e-004	1.2000e-004	6.6897
NaturalGas Unmitigated	6.7000e-004	6.1100e-003	5.1300e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.6502	6.6502	1.3000e-004	1.2000e-004	6.6897

Mitigated

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	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
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Strip Mall	124620	6.7000e-004	6.1100e-003	5.1300e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.6502	6.6502	1.3000e-004	1.2000e-004	6.6897
Total		6.7000e-004	6.1100e-003	5.1300e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.6502	6.6502	1.3000e-004	1.2000e-004	6.6897

Mitigated

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	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
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Strip Mall	124620	6.7000e-004	6.1100e-003	5.1300e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.6502	6.6502	1.3000e-004	1.2000e-004	6.6897
Total		6.7000e-004	6.1100e-003	5.1300e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.6502	6.6502	1.3000e-004	1.2000e-004	6.6897

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	3.99527e+006	648.7404	0.0598	7.2500e-003	652.3956
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.93123e+006	800.7183	0.0738	8.9500e-003	805.2299
Strip Mall	1.09275e+006	177.4375	0.0164	1.9800e-003	178.4372
Total		1,626.8961	0.1500	0.0182	1,636.0627

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	3.99527e+006	648.7404	0.0598	7.2500e-003	652.3956
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.93123e+006	800.7183	0.0738	8.9500e-003	805.2299
Strip Mall	1.09275e+006	177.4375	0.0164	1.9800e-003	178.4372
Total		1,626.8961	0.1500	0.0182	1,636.0627

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.2313	0.1376	11.9426	6.3000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.5270	19.5270	0.0187	0.0000	19.9946
Unmitigated	7.6167	0.1376	11.9426	6.3000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.5270	19.5270	0.0187	0.0000	19.9946

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	1.0033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.2547					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3587	0.1376	11.9426	6.3000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.5270	19.5270	0.0187	0.0000	19.9946
Total	7.6167	0.1376	11.9426	6.3000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.5270	19.5270	0.0187	0.0000	19.9946

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.8726					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3587	0.1376	11.9426	6.3000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.5270	19.5270	0.0187	0.0000	19.9946
Total	6.2313	0.1376	11.9426	6.3000e-004		0.0663	0.0663		0.0663	0.0663	0.0000	19.5270	19.5270	0.0187	0.0000	19.9946

7.0 Water Detail

7.1 Mitigation Measures Water

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	131.2364	0.1098	0.0645	153.2135
Unmitigated	131.2364	0.1098	0.0645	153.2135

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	46.3245 / 29.2046	70.4665	0.0614	0.0363	82.8029
City Park	0 / 10.485	5.9589	5.5000e-004	7.0000e-005	5.9924
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	29.189 / 18.4018	44.4008	0.0387	0.0228	52.1740
Strip Mall	6.88874 / 4.22213	10.4102	9.1200e-003	5.3900e-003	12.2443
Total		131.2364	0.1098	0.0646	153.2135

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	46.3245 / 29.2046	70.4665	0.0614	0.0363	82.8029
City Park	0 / 10.485	5.9589	5.5000e-004	7.0000e-005	5.9924
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	29.189 / 18.4018	44.4008	0.0387	0.0228	52.1740
Strip Mall	6.88874 / 4.22213	10.4102	9.1200e-003	5.3900e-003	12.2443
Total		131.2364	0.1098	0.0646	153.2135

8.0 Waste Detail

8.1 Mitigation Measures Waste

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	173.7664	10.2693	0.0000	430.4988
Unmitigated	173.7664	10.2693	0.0000	430.4988

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	327.06	66.3902	3.9236	0.0000	164.4790
City Park	0.76	0.1543	9.1200e-003	0.0000	0.3822
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	430.56	87.3998	5.1652	0.0000	216.5293
Strip Mall	97.65	19.8221	1.1715	0.0000	49.1083
Total		173.7664	10.2693	0.0000	430.4988

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	327.06	66.3902	3.9236	0.0000	164.4790
City Park	0.76	0.1543	9.1200e-003	0.0000	0.3822
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	430.56	87.3998	5.1652	0.0000	216.5293
Strip Mall	97.65	19.8221	1.1715	0.0000	49.1083
Total		173.7664	10.2693	0.0000	430.4988

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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Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Annual

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

Stone Beetland Project

Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	17.70	Acre	17.70	771,012.00	0
City Park	8.80	Acre	8.80	383,328.00	0
Apartments Low Rise	711.00	Dwelling Unit	18.00	711,000.00	1898
Single Family Housing	448.00	Dwelling Unit	55.90	806,400.00	1196
Strip Mall	93.00	1000sqft	6.20	93,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2026
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreages adjusted per site plan.

Construction Phase - Phase timing adjusted per AQ Questionnaire.

Grading - Based on applicant-provided AQ Questionnaire.

Vehicle Trips - Trip generation rate adjusted to be consistent with project-specific traffic report (Fehr and Peers)

Consumer Products - Based on CARB now regulation of consumer products.

Energy Use - Off-model calculation done to convert natural gas usage to electricity based on assumption that residential would be all electric and commercial would be 75% electric.

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

Mobile Land Use Mitigation - Based on AQ Questionnaire.

Area Mitigation - Project-specific MM I-1 would required the use of zero VOC paint.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	0
tblConstructionPhase	NumDays	120.00	20.00
tblConstructionPhase	NumDays	310.00	80.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	3,100.00	720.00
tblConstructionPhase	NumDays	220.00	720.00
tblConsumerProducts	ROG_EF	2.14E-05	2.11E-05
tblEnergyUse	NT24E	3,172.76	3,524.82
tblEnergyUse	NT24E	6,155.97	6,508.03
tblEnergyUse	NT24E	2.98	3.07
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	0.93	0.23
tblEnergyUse	T24E	108.87	1,284.05
tblEnergyUse	T24E	142.58	2,890.34
tblEnergyUse	T24E	2.91	3.35
tblEnergyUse	T24NG	8,969.37	0.00
tblEnergyUse	T24NG	20,971.81	0.00
tblEnergyUse	T24NG	4.44	1.11
tblGrading	MaterialImported	0.00	120,000.00

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

tblLandUse	LotAcreage	44.44	18.00
tblLandUse	LotAcreage	145.45	55.90
tblLandUse	LotAcreage	2.13	6.20
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	3.59
tblVehicleTrips	ST_TR	1.96	8.98
tblVehicleTrips	ST_TR	9.54	7.46
tblVehicleTrips	ST_TR	42.04	53.38
tblVehicleTrips	SU_TR	6.28	3.59
tblVehicleTrips	SU_TR	2.19	8.98
tblVehicleTrips	SU_TR	8.55	7.46
tblVehicleTrips	SU_TR	20.43	53.38
tblVehicleTrips	WD_TR	7.32	3.59
tblVehicleTrips	WD_TR	0.78	8.98
tblVehicleTrips	WD_TR	9.44	7.46
tblVehicleTrips	WD_TR	44.32	53.38

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	34.8779	62.7312	61.6458	0.1916	19.7939	1.6426	21.0607	10.1388	1.5192	11.3042	0.0000	19,689.2861	19,689.2861	2.4601	2.0390	20,083.1189
2024	34.4300	31.6054	58.6324	0.1871	12.8235	0.8110	13.6345	3.4461	0.7668	4.2129	0.0000	19,306.1908	19,306.1908	1.0328	1.1981	19,689.0344
2025	34.0261	30.0447	56.0427	0.1826	12.8232	0.7119	13.5351	3.4460	0.6730	4.1190	0.0000	18,932.1465	18,932.1465	1.0018	1.1652	19,304.4300
2026	33.7709	29.5758	53.9447	0.1784	12.8231	0.7075	13.5305	3.4460	0.6689	4.1148	0.0000	18,571.3556	18,571.3556	0.9778	1.1355	18,934.1848
Maximum	34.8779	62.7312	61.6458	0.1916	19.7939	1.6426	21.0607	10.1388	1.5192	11.3042	0.0000	19,689.2861	19,689.2861	2.4601	2.0390	20,083.1189

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	34.8779	62.7312	61.6458	0.1916	19.7939	1.6426	21.0607	10.1388	1.5192	11.3042	0.0000	19,689.28 61	19,689.28 61	2.4601	2.0390	20,083.11 89
2024	34.4300	31.6054	58.6324	0.1871	12.8235	0.8110	13.6345	3.4461	0.7668	4.2129	0.0000	19,306.19 08	19,306.19 08	1.0328	1.1981	19,689.03 44
2025	34.0261	30.0447	56.0427	0.1826	12.8232	0.7119	13.5351	3.4460	0.6730	4.1190	0.0000	18,932.14 65	18,932.14 65	1.0018	1.1652	19,304.43 00
2026	33.7709	29.5758	53.9447	0.1784	12.8231	0.7075	13.5305	3.4460	0.6689	4.1148	0.0000	18,571.35 56	18,571.35 56	0.9778	1.1355	18,934.18 48
Maximum	34.8779	62.7312	61.6458	0.1916	19.7939	1.6426	21.0607	10.1388	1.5192	11.3042	0.0000	19,689.28 61	19,689.28 61	2.4601	2.0390	20,083.11 89

	ROG	NOx	CO	SO2	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

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	42.6391	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218
Energy	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Mobile	33.1885	31.1595	265.9748	0.5617	59.6248	0.4081	60.0328	15.8929	0.3811	16.2740		59,090.4733	59,090.4733	3.4954	2.5490	59,937.4676
Total	75.8314	32.2934	361.5434	0.5669	59.6248	0.9407	60.5655	15.8929	0.9137	16.8066	0.0000	59,302.8392	59,302.8392	3.6611	2.5498	60,154.1958

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	35.0481	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218
Energy	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Mobile	31.7893	28.3557	240.3231	0.4972	52.5890	0.3648	52.9539	14.0175	0.3407	14.3582		52,308.7838	52,308.7838	3.2067	2.3183	53,079.7954
Total	66.8411	29.4896	335.8918	0.5025	52.5890	0.8975	53.4865	14.0175	0.8733	14.8909	0.0000	52,521.1497	52,521.1497	3.3724	2.3190	53,296.5235

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	11.86	8.68	7.10	11.37	11.80	4.59	11.69	11.80	4.42	11.40	0.00	11.44	11.44	7.89	9.05	11.40

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	5/1/2023	5/26/2023	5	20	
2	Grading	Grading	5/27/2023	9/15/2023	5	80	
3	Paving	Paving	9/16/2023	12/8/2023	5	60	
4	Building Construction	Building Construction	12/9/2023	9/11/2026	5	720	
5	Architectural Coating	Architectural Coating	12/23/2023	9/25/2026	5	720	

Acres of Grading (Site Preparation Phase): 30

Acres of Grading (Grading Phase): 240

Acres of Paving: 17.7

Residential Indoor: 3,072,735; Residential Outdoor: 1,024,245; Non-Residential Indoor: 139,500; Non-Residential Outdoor: 46,500; Striped Parking Area: 46,261 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	15,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,188.00	328.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	238.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.5138	0.0000	9.5138	3.7007	0.0000	3.7007			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.5138	1.4245	10.9383	3.7007	1.3105	5.0113		6,011.4777	6,011.4777	1.9442		6,060.0836

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	0.5088	28.1832	5.9488	0.1176	3.2696	0.2173	3.4870	0.8953	0.2079	1.1033		12,838.2702	12,838.2702	0.5120	2.0355	13,457.6591
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0674	0.0324	0.5451	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		142.3398	142.3398	3.9100e-003	3.5000e-003	143.4791
Total	0.5762	28.2156	6.4938	0.1190	3.4218	0.2181	3.6399	0.9357	0.2087	1.1443		12,980.6100	12,980.6100	0.5159	2.0390	13,601.1382

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.5138	0.0000	9.5138	3.7007	0.0000	3.7007			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.5138	1.4245	10.9383	3.7007	1.3105	5.0113	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

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	0.5088	28.1832	5.9488	0.1176	3.2696	0.2173	3.4870	0.8953	0.2079	1.1033		12,838.2702	12,838.2702	0.5120	2.0355	13,457.6591
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0674	0.0324	0.5451	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		142.3398	142.3398	3.9100e-003	3.5000e-003	143.4791
Total	0.5762	28.2156	6.4938	0.1190	3.4218	0.2181	3.6399	0.9357	0.2087	1.1443		12,980.6100	12,980.6100	0.5159	2.0390	13,601.1382

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.7729					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8056	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0505	0.0243	0.4088	1.0400e-003	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		106.7548	106.7548	2.9300e-003	2.6200e-003	107.6093
Total	0.0505	0.0243	0.4088	1.0400e-003	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		106.7548	106.7548	2.9300e-003	2.6200e-003	107.6093

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.4 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.7729					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8056	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0505	0.0243	0.4088	1.0400e-003	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		106.7548	106.7548	2.9300e-003	2.6200e-003	107.6093
Total	0.0505	0.0243	0.4088	1.0400e-003	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		106.7548	106.7548	2.9300e-003	2.6200e-003	107.6093

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

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

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	0.4389	15.1877	4.7281	0.0625	1.9761	0.0848	2.0609	0.5688	0.0811	0.6499		6,703.8022	6,703.8022	0.1657	0.9827	7,000.7835
Worker	4.0032	1.9234	32.3764	0.0826	9.0371	0.0466	9.0837	2.3972	0.0429	2.4401		8,454.9826	8,454.9826	0.2320	0.2076	8,522.6590
Total	4.4420	17.1111	37.1045	0.1451	11.0132	0.1314	11.1446	2.9660	0.1240	3.0900		15,158.7848	15,158.7848	0.3977	1.1903	15,523.4425

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

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

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	0.4389	15.1877	4.7281	0.0625	1.9761	0.0848	2.0609	0.5688	0.0811	0.6499		6,703.8022	6,703.8022	0.1657	0.9827	7,000.7835
Worker	4.0032	1.9234	32.3764	0.0826	9.0371	0.0466	9.0837	2.3972	0.0429	2.4401		8,454.9826	8,454.9826	0.2320	0.2076	8,522.6590
Total	4.4420	17.1111	37.1045	0.1451	11.0132	0.1314	11.1446	2.9660	0.1240	3.0900		15,158.7848	15,158.7848	0.3977	1.1903	15,523.4425

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2024

Unmitigated Construction On-Site

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

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	0.4198	14.8861	4.5797	0.0613	1.9759	0.0836	2.0595	0.5687	0.0799	0.6486		6,576.1291	6,576.1291	0.1610	0.9662	6,868.0860
Worker	3.7392	1.7135	30.0547	0.0799	9.0371	0.0444	9.0815	2.3972	0.0409	2.4380		8,241.7831	8,241.7831	0.2096	0.1932	8,304.5836
Total	4.1590	16.5996	34.6344	0.1412	11.0130	0.1279	11.1409	2.9659	0.1208	3.0867		14,817.9122	14,817.9122	0.3706	1.1594	15,172.6696

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

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

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	0.4198	14.8861	4.5797	0.0613	1.9759	0.0836	2.0595	0.5687	0.0799	0.6486		6,576.1291	6,576.1291	0.1610	0.9662	6,868.0860
Worker	3.7392	1.7135	30.0547	0.0799	9.0371	0.0444	9.0815	2.3972	0.0409	2.4380		8,241.7831	8,241.7831	0.2096	0.1932	8,304.5836
Total	4.1590	16.5996	34.6344	0.1412	11.0130	0.1279	11.1409	2.9659	0.1208	3.0867		14,817.9122	14,817.9122	0.3706	1.1594	15,172.6696

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.4047	14.5831	4.4723	0.0600	1.9757	0.0819	2.0576	0.5686	0.0784	0.6470		6,442.781 6	6,442.781 6	0.1577	0.9484	6,729.351 1
Worker	3.5104	1.5382	28.0560	0.0772	9.0371	0.0424	9.0795	2.3972	0.0390	2.4362		8,040.612 7	8,040.612 7	0.1898	0.1806	8,099.185 0
Total	3.9151	16.1213	32.5283	0.1372	11.0128	0.1243	11.1371	2.9658	0.1174	3.0832		14,483.39 43	14,483.39 43	0.3474	1.1290	14,828.53 61

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.4047	14.5831	4.4723	0.0600	1.9757	0.0819	2.0576	0.5686	0.0784	0.6470		6,442.781 6	6,442.781 6	0.1577	0.9484	6,729.351 1
Worker	3.5104	1.5382	28.0560	0.0772	9.0371	0.0424	9.0795	2.3972	0.0390	2.4362		8,040.612 7	8,040.612 7	0.1898	0.1806	8,099.185 0
Total	3.9151	16.1213	32.5283	0.1372	11.0128	0.1243	11.1371	2.9658	0.1174	3.0832		14,483.39 43	14,483.39 43	0.3474	1.1290	14,828.53 61

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3906	14.2864	4.3841	0.0588	1.9755	0.0799	2.0554	0.5686	0.0764	0.6450		6,312.858 7	6,312.858 7	0.1542	0.9312	6,594.204 2
Worker	3.3095	1.3948	26.3816	0.0747	9.0371	0.0404	9.0775	2.3972	0.0372	2.4344		7,848.276 6	7,848.276 6	0.1727	0.1702	7,903.324 7
Total	3.7001	15.6812	30.7657	0.1335	11.0126	0.1203	11.1329	2.9657	0.1136	3.0794		14,161.13 53	14,161.13 53	0.3269	1.1014	14,497.52 89

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3906	14.2864	4.3841	0.0588	1.9755	0.0799	2.0554	0.5686	0.0764	0.6450		6,312.858 7	6,312.858 7	0.1542	0.9312	6,594.204 2
Worker	3.3095	1.3948	26.3816	0.0747	9.0371	0.0404	9.0775	2.3972	0.0372	2.4344		7,848.276 6	7,848.276 6	0.1727	0.1702	7,903.324 7
Total	3.7001	15.6812	30.7657	0.1335	11.0126	0.1203	11.1329	2.9657	0.1136	3.0794		14,161.13 53	14,161.13 53	0.3269	1.1014	14,497.52 89

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	28.0612	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.8020	0.3853	6.4862	0.0166	1.8105	9.3300e-003	1.8198	0.4802	8.5900e-003	0.4888		1,693.8433	1,693.8433	0.0465	0.0416	1,707.4014
Total	0.8020	0.3853	6.4862	0.0166	1.8105	9.3300e-003	1.8198	0.4802	8.5900e-003	0.4888		1,693.8433	1,693.8433	0.0465	0.0416	1,707.4014

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	28.0612	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.8020	0.3853	6.4862	0.0166	1.8105	9.3300e-003	1.8198	0.4802	8.5900e-003	0.4888		1,693.8433	1,693.8433	0.0465	0.0416	1,707.4014
Total	0.8020	0.3853	6.4862	0.0166	1.8105	9.3300e-003	1.8198	0.4802	8.5900e-003	0.4888		1,693.8433	1,693.8433	0.0465	0.0416	1,707.4014

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	28.0503	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.7491	0.3433	6.0211	0.0160	1.8105	8.8900e-003	1.8194	0.4802	8.1800e-003	0.4884		1,651.1316	1,651.1316	0.0420	0.0387	1,663.7129
Total	0.7491	0.3433	6.0211	0.0160	1.8105	8.8900e-003	1.8194	0.4802	8.1800e-003	0.4884		1,651.1316	1,651.1316	0.0420	0.0387	1,663.7129

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	28.0503	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.7491	0.3433	6.0211	0.0160	1.8105	8.8900e-003	1.8194	0.4802	8.1800e-003	0.4884		1,651.1316	1,651.1316	0.0420	0.0387	1,663.7129
Total	0.7491	0.3433	6.0211	0.0160	1.8105	8.8900e-003	1.8194	0.4802	8.1800e-003	0.4884		1,651.1316	1,651.1316	0.0420	0.0387	1,663.7129

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	28.0404	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.7033	0.3082	5.6206	0.0155	1.8105	8.5000e-003	1.8190	0.4802	7.8200e-003	0.4881		1,610.8298	1,610.8298	0.0380	0.0362	1,622.5640
Total	0.7033	0.3082	5.6206	0.0155	1.8105	8.5000e-003	1.8190	0.4802	7.8200e-003	0.4881		1,610.8298	1,610.8298	0.0380	0.0362	1,622.5640

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2025

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	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	28.0404	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.7033	0.3082	5.6206	0.0155	1.8105	8.5000e-003	1.8190	0.4802	7.8200e-003	0.4881		1,610.8298	1,610.8298	0.0380	0.0362	1,622.5640
Total	0.7033	0.3082	5.6206	0.0155	1.8105	8.5000e-003	1.8190	0.4802	7.8200e-003	0.4881		1,610.8298	1,610.8298	0.0380	0.0362	1,622.5640

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	28.0404	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.6630	0.2794	5.2852	0.0150	1.8105	8.1000e-003	1.8186	0.4802	7.4600e-003	0.4877		1,572.2978	1,572.2978	0.0346	0.0341	1,583.3260
Total	0.6630	0.2794	5.2852	0.0150	1.8105	8.1000e-003	1.8186	0.4802	7.4600e-003	0.4877		1,572.2978	1,572.2978	0.0346	0.0341	1,583.3260

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2026

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	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	28.0404	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.6630	0.2794	5.2852	0.0150	1.8105	8.1000e-003	1.8186	0.4802	7.4600e-003	0.4877		1,572.2978	1,572.2978	0.0346	0.0341	1,583.3260
Total	0.6630	0.2794	5.2852	0.0150	1.8105	8.1000e-003	1.8186	0.4802	7.4600e-003	0.4877		1,572.2978	1,572.2978	0.0346	0.0341	1,583.3260

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	31.7893	28.3557	240.3231	0.4972	52.5890	0.3648	52.9539	14.0175	0.3407	14.3582		52,308.78 38	52,308.78 38	3.2067	2.3183	53,079.79 54
Unmitigated	33.1885	31.1595	265.9748	0.5617	59.6248	0.4081	60.0328	15.8929	0.3811	16.2740		59,090.47 33	59,090.47 33	3.4954	2.5490	59,937.46 76

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,552.49	2,552.49	2552.49	7,377,104	6,506,606
City Park	79.02	79.02	79.02	199,483	175,944
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	3,342.08	3,342.08	3342.08	9,659,146	8,519,367
Strip Mall	4,964.34	4,964.34	4964.34	11,049,926	9,746,035
Total	10,937.93	10,937.93	10,937.93	28,285,660	24,947,952

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

4.3 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
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	100	0	0
City Park	10.00	5.00	6.50	33.00	48.00	19.00	100	0	0
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	100	0	0
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
City Park	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Other Asphalt Surfaces	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Single Family Housing	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Strip Mall	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
NaturalGas Unmitigated	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	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
City Park	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Strip Mall	341.425	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Total		3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

5.2 Energy by Land Use - 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					
Apartments Low Rise	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
City Park	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Strip Mall	0.341425	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Total		3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	35.0481	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218
Unmitigated	42.6391	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218

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	5.4975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	34.2723					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8693	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301		172.1983	172.1983	0.1649		176.3218
Total	42.6391	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	32.1788					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8693	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301		172.1983	172.1983	0.1649		176.3218
Total	35.0481	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218

7.0 Water Detail

7.1 Mitigation Measures Water

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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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11.0 Vegetation

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

**Stone Beetland Project
Sacramento Metropolitan AQMD Air District, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	17.70	Acre	17.70	771,012.00	0
City Park	8.80	Acre	8.80	383,328.00	0
Apartments Low Rise	711.00	Dwelling Unit	18.00	711,000.00	1898
Single Family Housing	448.00	Dwelling Unit	55.90	806,400.00	1196
Strip Mall	93.00	1000sqft	6.20	93,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2026
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreages adjusted per site plan.

Construction Phase - Phase timing adjusted per AQ Questionnaire.

Grading - Based on applicant-provided AQ Questionnaire.

Vehicle Trips - Trip generation rate adjusted to be consistent with project-specific traffic report (Fehr and Peers)

Consumer Products - Based on CARB now regulation of consumer products.

Energy Use - Off-model calculation done to convert natural gas usage to electricity based on assumption that residential would be all electric and commercial would be 75% electric.

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

Mobile Land Use Mitigation - Based on AQ Questionnaire.

Area Mitigation - Project-specific MM I-1 would required the use of zero VOC paint.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	0
tblConstructionPhase	NumDays	120.00	20.00
tblConstructionPhase	NumDays	310.00	80.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	3,100.00	720.00
tblConstructionPhase	NumDays	220.00	720.00
tblConsumerProducts	ROG_EF	2.14E-05	2.11E-05
tblEnergyUse	NT24E	3,172.76	3,524.82
tblEnergyUse	NT24E	6,155.97	6,508.03
tblEnergyUse	NT24E	2.98	3.07
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	0.93	0.23
tblEnergyUse	T24E	108.87	1,284.05
tblEnergyUse	T24E	142.58	2,890.34
tblEnergyUse	T24E	2.91	3.35
tblEnergyUse	T24NG	8,969.37	0.00
tblEnergyUse	T24NG	20,971.81	0.00
tblEnergyUse	T24NG	4.44	1.11
tblGrading	MaterialImported	0.00	120,000.00

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

tblLandUse	LotAcreage	44.44	18.00
tblLandUse	LotAcreage	145.45	55.90
tblLandUse	LotAcreage	2.13	6.20
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	3.59
tblVehicleTrips	ST_TR	1.96	8.98
tblVehicleTrips	ST_TR	9.54	7.46
tblVehicleTrips	ST_TR	42.04	53.38
tblVehicleTrips	SU_TR	6.28	3.59
tblVehicleTrips	SU_TR	2.19	8.98
tblVehicleTrips	SU_TR	8.55	7.46
tblVehicleTrips	SU_TR	20.43	53.38
tblVehicleTrips	WD_TR	7.32	3.59
tblVehicleTrips	WD_TR	0.78	8.98
tblVehicleTrips	WD_TR	9.44	7.46
tblVehicleTrips	WD_TR	44.32	53.38

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	34.3138	65.0275	56.8455	0.1810	19.7939	1.6434	21.0607	10.1388	1.5200	11.3042	0.0000	18,983.66 41	18,983.66 41	2.4594	2.0408	19,653.30 81
2024	33.9102	33.1885	54.3367	0.1766	12.8235	0.8119	13.6354	3.4461	0.7676	4.2137	0.0000	18,221.76 66	18,221.76 66	1.0718	1.2342	18,616.36 39
2025	33.5420	31.5609	52.1535	0.1725	12.8232	0.7127	13.5359	3.4460	0.6737	4.1198	0.0000	17,877.43 51	17,877.43 51	1.0383	1.1990	18,260.69 98
2026	33.3200	31.0342	50.3721	0.1686	12.8231	0.7082	13.5313	3.4460	0.6695	4.1155	0.0000	17,544.46 49	17,544.46 49	1.0120	1.1673	17,917.62 99
Maximum	34.3138	65.0275	56.8455	0.1810	19.7939	1.6434	21.0607	10.1388	1.5200	11.3042	0.0000	18,983.66 41	18,983.66 41	2.4594	2.0408	19,653.30 81

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	34.3138	65.0275	56.8455	0.1810	19.7939	1.6434	21.0607	10.1388	1.5200	11.3042	0.0000	18,983.66 41	18,983.66 41	2.4594	2.0408	19,653.30 81
2024	33.9102	33.1885	54.3367	0.1766	12.8235	0.8119	13.6354	3.4461	0.7676	4.2137	0.0000	18,221.76 66	18,221.76 66	1.0718	1.2342	18,616.36 39
2025	33.5420	31.5609	52.1535	0.1725	12.8232	0.7127	13.5359	3.4460	0.6737	4.1198	0.0000	17,877.43 51	17,877.43 51	1.0383	1.1990	18,260.69 98
2026	33.3200	31.0342	50.3721	0.1686	12.8231	0.7082	13.5313	3.4460	0.6695	4.1155	0.0000	17,544.46 49	17,544.46 49	1.0120	1.1673	17,917.62 99
Maximum	34.3138	65.0275	56.8455	0.1810	19.7939	1.6434	21.0607	10.1388	1.5200	11.3042	0.0000	18,983.66 41	18,983.66 41	2.4594	2.0408	19,653.30 81

	ROG	NOx	CO	SO2	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

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	42.6391	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218
Energy	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Mobile	25.8713	36.0284	263.9589	0.5135	59.6248	0.4086	60.0333	15.8929	0.3816	16.2745		54,034.5515	54,034.5515	3.9247	2.7784	54,960.6401
Total	68.5141	37.1624	359.5276	0.5188	59.6248	0.9412	60.5660	15.8929	0.9142	16.8071	0.0000	54,246.9174	54,246.9174	4.0904	2.7792	55,177.3682

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	35.0481	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218
Energy	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Mobile	24.4090	32.7695	241.2783	0.4548	52.5890	0.3654	52.9544	14.0175	0.3412	14.3587		47,855.2603	47,855.2603	3.6353	2.5294	48,699.9096
Total	59.4608	33.9034	336.8469	0.4601	52.5890	0.8980	53.4870	14.0175	0.8738	14.8914	0.0000	48,067.6262	48,067.6262	3.8011	2.5302	48,916.6377

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	13.21	8.77	6.31	11.32	11.80	4.59	11.69	11.80	4.42	11.40	0.00	11.39	11.39	7.07	8.96	11.35

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	5/1/2023	5/26/2023	5	20	
2	Grading	Grading	5/27/2023	9/15/2023	5	80	
3	Paving	Paving	9/16/2023	12/8/2023	5	60	
4	Building Construction	Building Construction	12/9/2023	9/11/2026	5	720	
5	Architectural Coating	Architectural Coating	12/23/2023	9/25/2026	5	720	

Acres of Grading (Site Preparation Phase): 30

Acres of Grading (Grading Phase): 240

Acres of Paving: 17.7

Residential Indoor: 3,072,735; Residential Outdoor: 1,024,245; Non-Residential Indoor: 139,500; Non-Residential Outdoor: 46,500; Striped Parking Area: 46,261 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	15,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,188.00	328.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	238.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.5138	0.0000	9.5138	3.7007	0.0000	3.7007			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.5138	1.4245	10.9383	3.7007	1.3105	5.0113		6,011.4777	6,011.4777	1.9442		6,060.0836

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	0.4848	30.4722	6.0572	0.1177	3.2696	0.2181	3.4878	0.8953	0.2087	1.1040		12,845.5708	12,845.5708	0.5107	2.0368	13,465.3017
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0597	0.0397	0.4747	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		126.6156	126.6156	4.5000e-003	4.0100e-003	127.9228
Total	0.5444	30.5119	6.5319	0.1189	3.4218	0.2189	3.6407	0.9357	0.2094	1.1451		12,972.1864	12,972.1864	0.5152	2.0408	13,593.2245

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.5138	0.0000	9.5138	3.7007	0.0000	3.7007			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.5138	1.4245	10.9383	3.7007	1.3105	5.0113	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

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	0.4848	30.4722	6.0572	0.1177	3.2696	0.2181	3.4878	0.8953	0.2087	1.1040		12,845.5708	12,845.5708	0.5107	2.0368	13,465.3017
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0597	0.0397	0.4747	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		126.6156	126.6156	4.5000e-003	4.0100e-003	127.9228
Total	0.5444	30.5119	6.5319	0.1189	3.4218	0.2189	3.6407	0.9357	0.2094	1.1451		12,972.1864	12,972.1864	0.5152	2.0408	13,593.2245

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.7729					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8056	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0448	0.0298	0.3560	9.3000e-004	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		94.9617	94.9617	3.3700e-003	3.0100e-003	95.9421
Total	0.0448	0.0298	0.3560	9.3000e-004	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		94.9617	94.9617	3.3700e-003	3.0100e-003	95.9421

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.4 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.7729					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8056	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0448	0.0298	0.3560	9.3000e-004	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		94.9617	94.9617	3.3700e-003	3.0100e-003	95.9421
Total	0.0448	0.0298	0.3560	9.3000e-004	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		94.9617	94.9617	3.3700e-003	3.0100e-003	95.9421

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

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

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	0.4243	16.3233	4.9434	0.0625	1.9761	0.0858	2.0619	0.5688	0.0820	0.6508		6,708.6069	6,708.6069	0.1649	0.9850	7,006.2711
Worker	3.5454	2.3599	28.1980	0.0735	9.0371	0.0466	9.0837	2.3972	0.0429	2.4401		7,520.9684	7,520.9684	0.2673	0.2381	7,598.6153
Total	3.9696	18.6832	33.1413	0.1360	11.0132	0.1324	11.1456	2.9660	0.1249	3.0909		14,229.5752	14,229.5752	0.4322	1.2232	14,604.8864

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

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

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	0.4243	16.3233	4.9434	0.0625	1.9761	0.0858	2.0619	0.5688	0.0820	0.6508		6,708.6069	6,708.6069	0.1649	0.9850	7,006.2711
Worker	3.5454	2.3599	28.1980	0.0735	9.0371	0.0466	9.0837	2.3972	0.0429	2.4401		7,520.9684	7,520.9684	0.2673	0.2381	7,598.6153
Total	3.9696	18.6832	33.1413	0.1360	11.0132	0.1324	11.1456	2.9660	0.1249	3.0909		14,229.5752	14,229.5752	0.4322	1.2232	14,604.8864

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2024

Unmitigated Construction On-Site

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

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	0.4052	16.0039	4.7909	0.0613	1.9759	0.0844	2.0603	0.5687	0.0808	0.6495		6,581.6772	6,581.6772	0.1603	0.9685	6,874.2918
Worker	3.3184	2.1011	26.3000	0.0711	9.0371	0.0444	9.0815	2.3972	0.0409	2.4380		7,333.7277	7,333.7277	0.2427	0.2214	7,405.7722
Total	3.7236	18.1050	31.0909	0.1324	11.0130	0.1288	11.1418	2.9659	0.1216	3.0875		13,915.4049	13,915.4049	0.4030	1.1899	14,280.0640

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

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

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	0.4052	16.0039	4.7909	0.0613	1.9759	0.0844	2.0603	0.5687	0.0808	0.6495		6,581.6772	6,581.6772	0.1603	0.9685	6,874.2918
Worker	3.3184	2.1011	26.3000	0.0711	9.0371	0.0444	9.0815	2.3972	0.0409	2.4380		7,333.7277	7,333.7277	0.2427	0.2214	7,405.7722
Total	3.7236	18.1050	31.0909	0.1324	11.0130	0.1288	11.1418	2.9659	0.1216	3.0875		13,915.4049	13,915.4049	0.4030	1.1899	14,280.0640

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3900	15.6828	4.6780	0.0601	1.9757	0.0827	2.0584	0.5686	0.0791	0.6477		6,448.944 1	6,448.944 1	0.1569	0.9506	6,736.154 2
Worker	3.1194	1.8852	24.6446	0.0687	9.0371	0.0424	9.0795	2.3972	0.0390	2.4362		7,156.799 1	7,156.799 1	0.2208	0.2069	7,223.986 1
Total	3.5094	17.5681	29.3225	0.1288	11.0128	0.1251	11.1379	2.9658	0.1181	3.0839		13,605.74 32	13,605.74 32	0.3777	1.1576	13,960.14 03

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3900	15.6828	4.6780	0.0601	1.9757	0.0827	2.0584	0.5686	0.0791	0.6477		6,448.944 1	6,448.944 1	0.1569	0.9506	6,736.154 2
Worker	3.1194	1.8852	24.6446	0.0687	9.0371	0.0424	9.0795	2.3972	0.0390	2.4362		7,156.799 1	7,156.799 1	0.2208	0.2069	7,223.986 1
Total	3.5094	17.5681	29.3225	0.1288	11.0128	0.1251	11.1379	2.9658	0.1181	3.0839		13,605.74 32	13,605.74 32	0.3777	1.1576	13,960.14 03

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3756	15.3681	4.5837	0.0589	1.9755	0.0806	2.0561	0.5686	0.0771	0.6457		6,319.572 9	6,319.572 9	0.1535	0.9334	6,601.546 4
Worker	2.9464	1.7087	23.2390	0.0665	9.0371	0.0404	9.0775	2.3972	0.0372	2.4344		6,987.180 8	6,987.180 8	0.2018	0.1949	7,050.316 4
Total	3.3219	17.0768	27.8226	0.1254	11.0126	0.1210	11.1336	2.9657	0.1143	3.0801		13,306.75 37	13,306.75 37	0.3552	1.1283	13,651.86 28

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3756	15.3681	4.5837	0.0589	1.9755	0.0806	2.0561	0.5686	0.0771	0.6457		6,319.572 9	6,319.572 9	0.1535	0.9334	6,601.546 4
Worker	2.9464	1.7087	23.2390	0.0665	9.0371	0.0404	9.0775	2.3972	0.0372	2.4344		6,987.180 8	6,987.180 8	0.2018	0.1949	7,050.316 4
Total	3.3219	17.0768	27.8226	0.1254	11.0126	0.1210	11.1336	2.9657	0.1143	3.0801		13,306.75 37	13,306.75 37	0.3552	1.1283	13,651.86 28

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	28.0612	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.7103	0.4728	5.6491	0.0147	1.8105	9.3300e-003	1.8198	0.4802	8.5900e-003	0.4888		1,506.7260	1,506.7260	0.0535	0.0477	1,522.2815
Total	0.7103	0.4728	5.6491	0.0147	1.8105	9.3300e-003	1.8198	0.4802	8.5900e-003	0.4888		1,506.7260	1,506.7260	0.0535	0.0477	1,522.2815

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	28.0612	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.7103	0.4728	5.6491	0.0147	1.8105	9.3300e-003	1.8198	0.4802	8.5900e-003	0.4888		1,506.7260	1,506.7260	0.0535	0.0477	1,522.2815
Total	0.7103	0.4728	5.6491	0.0147	1.8105	9.3300e-003	1.8198	0.4802	8.5900e-003	0.4888		1,506.7260	1,506.7260	0.0535	0.0477	1,522.2815

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	28.0503	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.6648	0.4209	5.2689	0.0142	1.8105	8.8900e-003	1.8194	0.4802	8.1800e-003	0.4884		1,469.2148	1,469.2148	0.0486	0.0444	1,483.6480
Total	0.6648	0.4209	5.2689	0.0142	1.8105	8.8900e-003	1.8194	0.4802	8.1800e-003	0.4884		1,469.2148	1,469.2148	0.0486	0.0444	1,483.6480

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	28.0503	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.6648	0.4209	5.2689	0.0142	1.8105	8.8900e-003	1.8194	0.4802	8.1800e-003	0.4884		1,469.2148	1,469.2148	0.0486	0.0444	1,483.6480
Total	0.6648	0.4209	5.2689	0.0142	1.8105	8.8900e-003	1.8194	0.4802	8.1800e-003	0.4884		1,469.2148	1,469.2148	0.0486	0.0444	1,483.6480

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	28.0404	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.6249	0.3777	4.9372	0.0138	1.8105	8.5000e-003	1.8190	0.4802	7.8200e-003	0.4881		1,433.7695	1,433.7695	0.0442	0.0415	1,447.2296
Total	0.6249	0.3777	4.9372	0.0138	1.8105	8.5000e-003	1.8190	0.4802	7.8200e-003	0.4881		1,433.7695	1,433.7695	0.0442	0.0415	1,447.2296

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2025

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	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	28.0404	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.6249	0.3777	4.9372	0.0138	1.8105	8.5000e-003	1.8190	0.4802	7.8200e-003	0.4881		1,433.7695	1,433.7695	0.0442	0.0415	1,447.2296
Total	0.6249	0.3777	4.9372	0.0138	1.8105	8.5000e-003	1.8190	0.4802	7.8200e-003	0.4881		1,433.7695	1,433.7695	0.0442	0.0415	1,447.2296

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	28.0404	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.5903	0.3423	4.6556	0.0133	1.8105	8.1000e-003	1.8186	0.4802	7.4600e-003	0.4877		1,399.7888	1,399.7888	0.0404	0.0391	1,412.4371
Total	0.5903	0.3423	4.6556	0.0133	1.8105	8.1000e-003	1.8186	0.4802	7.4600e-003	0.4877		1,399.7888	1,399.7888	0.0404	0.0391	1,412.4371

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2026

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	27.8695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	28.0404	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.5903	0.3423	4.6556	0.0133	1.8105	8.1000e-003	1.8186	0.4802	7.4600e-003	0.4877		1,399.7888	1,399.7888	0.0404	0.0391	1,412.4371
Total	0.5903	0.3423	4.6556	0.0133	1.8105	8.1000e-003	1.8186	0.4802	7.4600e-003	0.4877		1,399.7888	1,399.7888	0.0404	0.0391	1,412.4371

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.4090	32.7695	241.2783	0.4548	52.5890	0.3654	52.9544	14.0175	0.3412	14.3587		47,855.2603	47,855.2603	3.6353	2.5294	48,699.9096
Unmitigated	25.8713	36.0284	263.9589	0.5135	59.6248	0.4086	60.0333	15.8929	0.3816	16.2745		54,034.5515	54,034.5515	3.9247	2.7784	54,960.6401

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,552.49	2,552.49	2552.49	7,377,104	6,506,606
City Park	79.02	79.02	79.02	199,483	175,944
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	3,342.08	3,342.08	3342.08	9,659,146	8,519,367
Strip Mall	4,964.34	4,964.34	4964.34	11,049,926	9,746,035
Total	10,937.93	10,937.93	10,937.93	28,285,660	24,947,952

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

4.3 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
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	100	0	0
City Park	10.00	5.00	6.50	33.00	48.00	19.00	100	0	0
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	100	0	0
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
City Park	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Other Asphalt Surfaces	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Single Family Housing	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071
Strip Mall	0.550065	0.056538	0.183073	0.126916	0.023794	0.005777	0.013314	0.009484	0.000878	0.000597	0.025554	0.000937	0.003071

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
NaturalGas Unmitigated	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	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
City Park	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Strip Mall	341.425	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Total		3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

5.2 Energy by Land Use - NaturalGas

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					
Apartments Low Rise	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
City Park	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Strip Mall	0.341425	3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063
Total		3.6800e-003	0.0335	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003		40.1676	40.1676	7.7000e-004	7.4000e-004	40.4063

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	35.0481	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218
Unmitigated	42.6391	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218

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	5.4975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	34.2723					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8693	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301		172.1983	172.1983	0.1649		176.3218
Total	42.6391	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218

Mitigated

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	32.1788					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8693	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301		172.1983	172.1983	0.1649		176.3218
Total	35.0481	1.1005	95.5405	5.0500e-003		0.5301	0.5301		0.5301	0.5301	0.0000	172.1983	172.1983	0.1649	0.0000	176.3218

7.0 Water Detail

7.1 Mitigation Measures Water

Stone Beetland Project - Sacramento Metropolitan AQMD Air District, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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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11.0 Vegetation

Stone Beetland Project

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

Sacramento Metropolitan AQMD Air District, Mitigation Report

Construction Mitigation Summary

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

OFFROAD Equipment Mitigation

Mitigated

Stone Beetland Project

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

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Mitigated

Stone Beetland Project

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	6.28600E-002	4.22380E-001	6.51420E-001	1.07000E-003	1.98200E-002	1.98200E-002	0.00000E+000	9.19171E+001	9.19171E+001	5.08000E-003	0.00000E+000	9.20440E+001
Cranes	1.00960E-001	1.04070E+000	5.52010E-001	1.82000E-003	4.38600E-002	4.03500E-002	0.00000E+000	1.59690E+002	1.59690E+002	5.16500E-002	0.00000E+000	1.60981E+002
Excavators	1.50900E-002	1.23890E-001	2.60620E-001	4.10000E-004	6.06000E-003	5.58000E-003	0.00000E+000	3.62951E+001	3.62951E+001	1.17400E-002	0.00000E+000	3.65885E+001
Forklifts	9.70600E-002	9.12740E-001	1.22688E+000	1.65000E-003	5.05000E-002	4.64600E-002	0.00000E+000	1.45035E+002	1.45035E+002	4.69100E-002	0.00000E+000	1.46207E+002
Generator Sets	9.86400E-002	8.84290E-001	1.31807E+000	2.37000E-003	3.65900E-002	3.65900E-002	0.00000E+000	2.03475E+002	2.03475E+002	7.81000E-003	0.00000E+000	2.03670E+002
Graders	1.53400E-002	1.86120E-001	6.77000E-002	2.60000E-004	6.03000E-003	5.55000E-003	0.00000E+000	2.32550E+001	2.32550E+001	7.52000E-003	0.00000E+000	2.34430E+001
Pavers	1.15200E-002	1.12970E-001	1.72990E-001	2.80000E-004	5.31000E-003	4.89000E-003	0.00000E+000	2.47780E+001	2.47780E+001	8.01000E-003	0.00000E+000	2.49783E+001
Paving Equipment	1.02400E-002	9.61800E-002	1.53400E-001	2.40000E-004	4.68000E-003	4.30000E-003	0.00000E+000	2.14713E+001	2.14713E+001	6.94000E-003	0.00000E+000	2.16449E+001
Rollers	9.22000E-003	9.66100E-002	1.11130E-001	1.60000E-004	5.32000E-003	4.89000E-003	0.00000E+000	1.38314E+001	1.38314E+001	4.47000E-003	0.00000E+000	1.39432E+001
Rubber Tired Dozers	4.79300E-002	4.98900E-001	2.17440E-001	6.00000E-004	2.24600E-002	2.06700E-002	0.00000E+000	5.25170E+001	5.25170E+001	1.69900E-002	0.00000E+000	5.29416E+001
Scrapers	6.29400E-002	6.62670E-001	4.90960E-001	1.21000E-003	2.59800E-002	2.39000E-002	0.00000E+000	1.06694E+002	1.06694E+002	3.45100E-002	0.00000E+000	1.07557E+002
Tractors/Loaders/Backhoes	1.47460E-001	1.48881E+000	2.37686E+000	3.32000E-003	6.49000E-002	5.97100E-002	0.00000E+000	2.91681E+002	2.91681E+002	9.43400E-002	0.00000E+000	2.94039E+002
Welders	8.14900E-002	4.88800E-001	5.96370E-001	9.20000E-004	1.56900E-002	1.56900E-002	0.00000E+000	6.77594E+001	6.77594E+001	6.63000E-003	0.00000E+000	6.79252E+001

Mitigated

Stone Beetland Project

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	6.28600E-002	4.22380E-001	6.51420E-001	1.07000E-003	1.98200E-002	1.98200E-002	0.00000E+000	9.19170E+001	9.19170E+001	5.08000E-003	0.00000E+000	9.20439E+001
Cranes	1.00960E-001	1.04070E+000	5.52010E-001	1.82000E-003	4.38600E-002	4.03500E-002	0.00000E+000	1.59690E+002	1.59690E+002	5.16500E-002	0.00000E+000	1.60981E+002
Excavators	1.50900E-002	1.23890E-001	2.60620E-001	4.10000E-004	6.06000E-003	5.58000E-003	0.00000E+000	3.62950E+001	3.62950E+001	1.17400E-002	0.00000E+000	3.65885E+001
Forklifts	9.70600E-002	9.12730E-001	1.22688E+000	1.65000E-003	5.05000E-002	4.64600E-002	0.00000E+000	1.45034E+002	1.45034E+002	4.69100E-002	0.00000E+000	1.46207E+002
Generator Sets	9.86400E-002	8.84290E-001	1.31807E+000	2.37000E-003	3.65900E-002	3.65900E-002	0.00000E+000	2.03474E+002	2.03474E+002	7.81000E-003	0.00000E+000	2.03670E+002
Graders	1.53400E-002	1.86120E-001	6.77000E-002	2.60000E-004	6.03000E-003	5.55000E-003	0.00000E+000	2.32549E+001	2.32549E+001	7.52000E-003	0.00000E+000	2.34430E+001
Pavers	1.15200E-002	1.12970E-001	1.72990E-001	2.80000E-004	5.31000E-003	4.89000E-003	0.00000E+000	2.47779E+001	2.47779E+001	8.01000E-003	0.00000E+000	2.49783E+001
Paving Equipment	1.02400E-002	9.61800E-002	1.53400E-001	2.40000E-004	4.68000E-003	4.30000E-003	0.00000E+000	2.14712E+001	2.14712E+001	6.94000E-003	0.00000E+000	2.16449E+001
Rollers	9.22000E-003	9.66100E-002	1.11130E-001	1.60000E-004	5.32000E-003	4.89000E-003	0.00000E+000	1.38313E+001	1.38313E+001	4.47000E-003	0.00000E+000	1.39432E+001
Rubber Tired Dozers	4.79300E-002	4.98900E-001	2.17440E-001	6.00000E-004	2.24600E-002	2.06700E-002	0.00000E+000	5.25169E+001	5.25169E+001	1.69900E-002	0.00000E+000	5.29415E+001
Scrapers	6.29400E-002	6.62670E-001	4.90960E-001	1.21000E-003	2.59800E-002	2.39000E-002	0.00000E+000	1.06694E+002	1.06694E+002	3.45100E-002	0.00000E+000	1.07557E+002
Tractors/Loaders/Balckhoes	1.47460E-001	1.48880E+000	2.37686E+000	3.32000E-003	6.49000E-002	5.97100E-002	0.00000E+000	2.91681E+002	2.91681E+002	9.43400E-002	0.00000E+000	2.94039E+002
Welders	8.14900E-002	4.88800E-001	5.96370E-001	9.20000E-004	1.56900E-002	1.56900E-002	0.00000E+000	6.77594E+001	6.77594E+001	6.63000E-003	0.00000E+000	6.79251E+001

Mitigated

Stone Beetland Project

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.08794E-006	1.08794E-006	0.00000E+000	0.00000E+000	1.19508E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18981E-006	1.18981E-006	0.00000E+000	0.00000E+000	1.18026E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.37760E-006	1.37760E-006	0.00000E+000	0.00000E+000	1.09324E-006
Forklifts	0.00000E+000	1.09560E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.24108E-006	1.24108E-006	0.00000E+000	0.00000E+000	1.16273E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.22748E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.29005E-006	1.29005E-006	0.00000E+000	0.00000E+000	1.27970E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21075E-006	1.21075E-006	0.00000E+000	0.00000E+000	1.20104E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.39722E-006	1.39722E-006	0.00000E+000	0.00000E+000	1.38601E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.44599E-006	1.44599E-006	0.00000E+000	0.00000E+000	1.43439E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14249E-006	1.14249E-006	0.00000E+000	0.00000E+000	1.32221E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12471E-006	1.12471E-006	0.00000E+000	0.00000E+000	1.20866E-006
Tractors/Loaders/Balckhoes	0.00000E+000	6.71677E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16566E-006	1.16566E-006	0.00000E+000	0.00000E+000	1.19032E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18065E-006	1.18065E-006	0.00000E+000	0.00000E+000	1.32499E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
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Mitigated

Stone Beetland Project

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

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

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.63	0.17	0.63	0.17	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	3.83	1.04	3.83	1.04	0.00	0.00
Grading	Fugitive Dust	0.38	0.15	0.38	0.15	0.00	0.00
Grading	Roads	0.13	0.04	0.13	0.04	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.20	0.10	0.20	0.10	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Mitigated

Stone Beetland Project

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

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	5.22	9.09	9.03	11.45	10.59	10.60	0.00	11.45	11.45	7.77	9.05	11.41
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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

Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
Yes	Land Use	Increase Density	0.00	20.90	0.00	
Yes	Land Use	Increase Diversity	0.30	0.66		
No	Land Use	Improve Walkability Design	0.00	0.00		
Yes	Land Use	Improve Destination Accessibility	0.03	10.30		
Yes	Land Use	Increase Transit Accessibility	0.24	0.01		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.10			

Mitigated

Stone Beetland Project

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

Yes	Neighborhood Enhancements	Improve Pedestrian Network	2.00	Project Site and Connecting Off-Site		
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.02			
Yes	Parking Policy Pricing	Limit Parking Supply	0.00	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00	0.00		
No	Transit Improvements	Expand Transit Network	0.00	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		0.00	
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.12			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	4.50			
No	Commute	Workplace Parking Charge		0.00		
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00			2.00

Mitigated

Stone Beetland Project

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

No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.12		

Area Mitigation

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

Mitigated

Stone Beetland Project

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

No	Install High Efficiency Lighting		
No	On-site Renewable		

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

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
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

Mitigated

Stone Beetland Project

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

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

Mitigated