
Appendix C

The Preserve Project - Sacramento Metropolitan AQMD Air District, Annual

The Preserve 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
Single Family Housing	440.00	Dwelling Unit	73.50	792,000.00	1175

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	387.09	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - CO2 Intensity Factor updated per SMUD's RPS reductions
- Land Use - Acreage updated per applicant-provided questionnaire
- Construction Phase - Timing updated per estimates provided on applicant's construction questionnaire
- Demolition -
- Grading - Based on applicant-provided questionnaire
- Vehicle Trips - Trip rates and trip lengths updated to match project-specific data from Kimley Horn Traffic Study
- Mobile Land Use Mitigation -
- Energy Mitigation - Title 24 exceedance applied to reflect compliance with the 2019 CBSC.
- Water Mitigation - Water conservation strategy applied to reflect compliance with 2019 CalGreen Code and MWEL0.

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	75.00	391.00
tblConstructionPhase	NumDays	1,110.00	391.00
tblConstructionPhase	NumDays	70.00	23.00
tblConstructionPhase	NumDays	110.00	44.00
tblConstructionPhase	NumDays	75.00	24.00
tblConstructionPhase	NumDays	40.00	11.00
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LotAcreage	142.86	73.50
tblProjectCharacteristics	CO2IntensityFactor	590.31	387.09
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	HO_TL	8.50	6.65
tblVehicleTrips	HS_TL	7.50	5.87
tblVehicleTrips	HW_TL	15.00	11.74
tblVehicleTrips	ST_TR	9.91	9.12
tblVehicleTrips	SU_TR	8.62	9.12
tblVehicleTrips	WD_TR	9.52	9.12

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	1.0875	2.8391	2.2530	5.2100e-003	0.4113	0.1206	0.5319	0.1655	0.1121	0.2776	0.0000	466.7041	466.7041	0.0917	0.0000	468.9973
2022	3.6727	2.9478	3.3452	8.1900e-003	0.3187	0.1195	0.4381	0.0858	0.1130	0.1988	0.0000	733.6739	733.6739	0.0885	0.0000	735.8866
2023	0.9409	0.5992	0.7376	1.8300e-003	0.0728	0.0233	0.0961	0.0196	0.0221	0.0417	0.0000	163.7641	163.7641	0.0194	0.0000	164.2488
Maximum	3.6727	2.9478	3.3452	8.1900e-003	0.4113	0.1206	0.5319	0.1655	0.1130	0.2776	0.0000	733.6739	733.6739	0.0917	0.0000	735.8866

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	1.0875	2.8391	2.2530	5.2100e-003	0.4113	0.1206	0.5319	0.1655	0.1121	0.2776	0.0000	466.7037	466.7037	0.0917	0.0000	468.9969
2022	3.6727	2.9478	3.3452	8.1900e-003	0.3187	0.1195	0.4381	0.0858	0.1130	0.1988	0.0000	733.6735	733.6735	0.0885	0.0000	735.8862
2023	0.9409	0.5992	0.7376	1.8300e-003	0.0728	0.0233	0.0961	0.0196	0.0221	0.0417	0.0000	163.7640	163.7640	0.0194	0.0000	164.2487
Maximum	3.6727	2.9478	3.3452	8.1900e-003	0.4113	0.1206	0.5319	0.1655	0.1130	0.2776	0.0000	733.6735	733.6735	0.0917	0.0000	735.8862

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2021	7-31-2021	1.5699	1.5699
2	8-1-2021	10-31-2021	1.1783	1.1783
3	11-1-2021	1-31-2022	1.7346	1.7346
4	2-1-2022	4-30-2022	1.6211	1.6211
5	5-1-2022	7-31-2022	1.6711	1.6711
6	8-1-2022	10-31-2022	1.6735	1.6735
7	11-1-2022	1-31-2023	1.6505	1.6505
8	2-1-2023	4-30-2023	1.0027	1.0027
		Highest	1.7346	1.7346

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2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.7255	0.0523	4.5386	2.4000e-004		0.0251	0.0251		0.0251	0.0251	0.0000	7.4120	7.4120	7.1300e-003	0.0000	7.5902
Energy	0.0613	0.5238	0.2229	3.3400e-003		0.0424	0.0424		0.0424	0.0424	0.0000	1,258.9304	1,258.9304	0.0605	0.0212	1,266.7700
Mobile	1.1263	4.7232	13.9603	0.0476	4.3122	0.0369	4.3491	1.1559	0.0344	1.1903	0.0000	4,376.8398	4,376.8398	0.1936	0.0000	4,381.6791
Waste						0.0000	0.0000		0.0000	0.0000	85.8652	0.0000	85.8652	5.0745	0.0000	212.7273
Water						0.0000	0.0000		0.0000	0.0000	10.1427	36.1866	46.3293	0.0376	0.0226	54.0100
Total	4.9131	5.2993	18.7218	0.0511	4.3122	0.1044	4.4165	1.1559	0.1019	1.2577	96.0079	5,679.3687	5,775.3766	5.3733	0.0439	5,922.7766

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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	3.7255	0.0523	4.5386	2.4000e-004		0.0251	0.0251		0.0251	0.0251	0.0000	7.4120	7.4120	7.1300e-003	0.0000	7.5902
Energy	0.0575	0.4909	0.2089	3.1300e-003		0.0397	0.0397		0.0397	0.0397	0.0000	568.5548	568.5548	0.0109	0.0104	571.9335
Mobile	1.1178	4.6708	13.7405	0.0467	4.2259	0.0363	4.2622	1.1328	0.0338	1.1665	0.0000	4,294.1341	4,294.1341	0.1904	0.0000	4,298.8948
Waste						0.0000	0.0000		0.0000	0.0000	85.8652	0.0000	85.8652	5.0745	0.0000	212.7273
Water						0.0000	0.0000		0.0000	0.0000	8.1142	28.9493	37.0634	0.0301	0.0181	43.2080
Total	4.9007	5.2141	18.4880	0.0500	4.2259	0.1011	4.3270	1.1328	0.0986	1.2314	93.9793	4,899.0503	4,993.0296	5.3131	0.0285	5,134.3538

	ROG	NOx	CO	SO2	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	0.25	1.61	1.25	2.17	2.00	3.16	2.03	2.00	3.20	2.10	2.11	13.74	13.55	1.12	34.98	13.31

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2021	6/2/2021	5	23	
2	Site Preparation	Site Preparation	6/3/2021	6/17/2021	5	11	
3	Grading	Grading	6/18/2021	8/18/2021	5	44	
4	Paving	Paving	8/19/2021	9/21/2021	5	24	
5	Building Construction	Building Construction	9/22/2021	3/22/2023	5	391	
6	Architectural Coating	Architectural Coating	10/6/2021	4/5/2023	5	391	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 110

Acres of Paving: 0

Residential Indoor: 1,603,800; Residential Outdoor: 534,600; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
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
Demolition	6	15.00	0.00	55.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	1,250.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	158.00	47.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.1600e-003	0.0000	6.1600e-003	9.3000e-004	0.0000	9.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0364	0.3616	0.2480	4.5000e-004		0.0178	0.0178		0.0166	0.0166	0.0000	39.1009	39.1009	0.0110	0.0000	39.3760
Total	0.0364	0.3616	0.2480	4.5000e-004	6.1600e-003	0.0178	0.0240	9.3000e-004	0.0166	0.0175	0.0000	39.1009	39.1009	0.0110	0.0000	39.3760

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3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	7.2600e-003	1.6600e-003	2.0000e-005	4.6000e-004	2.0000e-005	4.9000e-004	1.3000e-004	2.0000e-005	1.5000e-004	0.0000	2.0797	2.0797	1.2000e-004	0.0000	2.0827
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	8.1000e-004	5.6000e-004	6.1300e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9100e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6093	1.6093	4.0000e-005	0.0000	1.6103
Total	1.0100e-003	7.8200e-003	7.7900e-003	4.0000e-005	2.3600e-003	3.0000e-005	2.4000e-003	6.4000e-004	3.0000e-005	6.7000e-004	0.0000	3.6889	3.6889	1.6000e-004	0.0000	3.6929

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					6.1600e-003	0.0000	6.1600e-003	9.3000e-004	0.0000	9.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0364	0.3616	0.2480	4.5000e-004		0.0178	0.0178		0.0166	0.0166	0.0000	39.1009	39.1009	0.0110	0.0000	39.3760
Total	0.0364	0.3616	0.2480	4.5000e-004	6.1600e-003	0.0178	0.0240	9.3000e-004	0.0166	0.0175	0.0000	39.1009	39.1009	0.0110	0.0000	39.3760

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3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	7.2600e-003	1.6600e-003	2.0000e-005	4.6000e-004	2.0000e-005	4.9000e-004	1.3000e-004	2.0000e-005	1.5000e-004	0.0000	2.0797	2.0797	1.2000e-004	0.0000	2.0827
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	8.1000e-004	5.6000e-004	6.1300e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9100e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6093	1.6093	4.0000e-005	0.0000	1.6103
Total	1.0100e-003	7.8200e-003	7.7900e-003	4.0000e-005	2.3600e-003	3.0000e-005	2.4000e-003	6.4000e-004	3.0000e-005	6.7000e-004	0.0000	3.6889	3.6889	1.6000e-004	0.0000	3.6929

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0994	0.0000	0.0994	0.0546	0.0000	0.0546	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0214	0.2227	0.1164	2.1000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	18.3896	18.3896	5.9500e-003	0.0000	18.5383
Total	0.0214	0.2227	0.1164	2.1000e-004	0.0994	0.0112	0.1106	0.0546	0.0103	0.0650	0.0000	18.3896	18.3896	5.9500e-003	0.0000	18.5383

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3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.5200e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9236	0.9236	2.0000e-005	0.0000	0.9242
Total	4.6000e-004	3.2000e-004	3.5200e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9236	0.9236	2.0000e-005	0.0000	0.9242

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					0.0994	0.0000	0.0994	0.0546	0.0000	0.0546	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0214	0.2227	0.1164	2.1000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	18.3896	18.3896	5.9500e-003	0.0000	18.5383
Total	0.0214	0.2227	0.1164	2.1000e-004	0.0994	0.0112	0.1106	0.0546	0.0103	0.0650	0.0000	18.3896	18.3896	5.9500e-003	0.0000	18.5383

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3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.5200e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9236	0.9236	2.0000e-005	0.0000	0.9242
Total	4.6000e-004	3.2000e-004	3.5200e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9236	0.9236	2.0000e-005	0.0000	0.9242

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1919	0.0000	0.1919	0.0793	0.0000	0.0793	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0922	1.0208	0.6793	1.3600e-003		0.0437	0.0437		0.0402	0.0402	0.0000	119.8890	119.8890	0.0388	0.0000	120.8583
Total	0.0922	1.0208	0.6793	1.3600e-003	0.1919	0.0437	0.2355	0.0793	0.0402	0.1195	0.0000	119.8890	119.8890	0.0388	0.0000	120.8583

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3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4500e-003	0.1649	0.0377	4.9000e-004	0.0105	5.7000e-004	0.0111	2.8900e-003	5.4000e-004	3.4300e-003	0.0000	47.2647	47.2647	2.7300e-003	0.0000	47.3329
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	2.0600e-003	1.4200e-003	0.0156	5.0000e-005	4.8500e-003	3.0000e-005	4.8800e-003	1.2900e-003	3.0000e-005	1.3200e-003	0.0000	4.1048	4.1048	1.0000e-004	0.0000	4.1074
Total	6.5100e-003	0.1663	0.0533	5.4000e-004	0.0154	6.0000e-004	0.0160	4.1800e-003	5.7000e-004	4.7500e-003	0.0000	51.3695	51.3695	2.8300e-003	0.0000	51.4402

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					0.1919	0.0000	0.1919	0.0793	0.0000	0.0793	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0922	1.0208	0.6793	1.3600e-003		0.0437	0.0437		0.0402	0.0402	0.0000	119.8888	119.8888	0.0388	0.0000	120.8582
Total	0.0922	1.0208	0.6793	1.3600e-003	0.1919	0.0437	0.2355	0.0793	0.0402	0.1195	0.0000	119.8888	119.8888	0.0388	0.0000	120.8582

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3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4500e-003	0.1649	0.0377	4.9000e-004	0.0105	5.7000e-004	0.0111	2.8900e-003	5.4000e-004	3.4300e-003	0.0000	47.2647	47.2647	2.7300e-003	0.0000	47.3329
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	2.0600e-003	1.4200e-003	0.0156	5.0000e-005	4.8500e-003	3.0000e-005	4.8800e-003	1.2900e-003	3.0000e-005	1.3200e-003	0.0000	4.1048	4.1048	1.0000e-004	0.0000	4.1074
Total	6.5100e-003	0.1663	0.0533	5.4000e-004	0.0154	6.0000e-004	0.0160	4.1800e-003	5.7000e-004	4.7500e-003	0.0000	51.3695	51.3695	2.8300e-003	0.0000	51.4402

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0151	0.1550	0.1758	2.7000e-004		8.1300e-003	8.1300e-003		7.4800e-003	7.4800e-003	0.0000	24.0282	24.0282	7.7700e-003	0.0000	24.2225
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0151	0.1550	0.1758	2.7000e-004		8.1300e-003	8.1300e-003		7.4800e-003	7.4800e-003	0.0000	24.0282	24.0282	7.7700e-003	0.0000	24.2225

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3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6800e-003	1.1600e-003	0.0128	4.0000e-005	7.3900e-003	3.0000e-005	7.4200e-003	1.9000e-003	2.0000e-005	1.9200e-003	0.0000	3.3585	3.3585	9.0000e-005	0.0000	3.3606
Total	1.6800e-003	1.1600e-003	0.0128	4.0000e-005	7.3900e-003	3.0000e-005	7.4200e-003	1.9000e-003	2.0000e-005	1.9200e-003	0.0000	3.3585	3.3585	9.0000e-005	0.0000	3.3606

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	0.0151	0.1550	0.1758	2.7000e-004		8.1300e-003	8.1300e-003		7.4800e-003	7.4800e-003	0.0000	24.0282	24.0282	7.7700e-003	0.0000	24.2224
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0151	0.1550	0.1758	2.7000e-004		8.1300e-003	8.1300e-003		7.4800e-003	7.4800e-003	0.0000	24.0282	24.0282	7.7700e-003	0.0000	24.2224

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3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6800e-003	1.1600e-003	0.0128	4.0000e-005	7.3900e-003	3.0000e-005	7.4200e-003	1.9000e-003	2.0000e-005	1.9200e-003	0.0000	3.3585	3.3585	9.0000e-005	0.0000	3.3606
Total	1.6800e-003	1.1600e-003	0.0128	4.0000e-005	7.3900e-003	3.0000e-005	7.4200e-003	1.9000e-003	2.0000e-005	1.9200e-003	0.0000	3.3585	3.3585	9.0000e-005	0.0000	3.3606

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0694	0.6363	0.6050	9.8000e-004		0.0350	0.0350		0.0329	0.0329	0.0000	84.5476	84.5476	0.0204	0.0000	85.0576
Total	0.0694	0.6363	0.6050	9.8000e-004		0.0350	0.0350		0.0329	0.0329	0.0000	84.5476	84.5476	0.0204	0.0000	85.0576

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3.6 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2700e-003	0.1970	0.0531	5.2000e-004	0.0131	6.1000e-004	0.0137	3.7800e-003	5.8000e-004	4.3600e-003	0.0000	50.1614	50.1614	2.5800e-003	0.0000	50.2259
Worker	0.0270	0.0186	0.2049	6.0000e-004	0.0635	4.3000e-004	0.0639	0.0169	3.9000e-004	0.0173	0.0000	53.8006	53.8006	1.3600e-003	0.0000	53.8346
Total	0.0333	0.2157	0.2580	1.1200e-003	0.0766	1.0400e-003	0.0776	0.0207	9.7000e-004	0.0216	0.0000	103.9619	103.9619	3.9400e-003	0.0000	104.0605

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	0.0694	0.6363	0.6050	9.8000e-004		0.0350	0.0350		0.0329	0.0329	0.0000	84.5475	84.5475	0.0204	0.0000	85.0575
Total	0.0694	0.6363	0.6050	9.8000e-004		0.0350	0.0350		0.0329	0.0329	0.0000	84.5475	84.5475	0.0204	0.0000	85.0575

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3.6 Building Construction - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2700e-003	0.1970	0.0531	5.2000e-004	0.0131	6.1000e-004	0.0137	3.7800e-003	5.8000e-004	4.3600e-003	0.0000	50.1614	50.1614	2.5800e-003	0.0000	50.2259
Worker	0.0270	0.0186	0.2049	6.0000e-004	0.0635	4.3000e-004	0.0639	0.0169	3.9000e-004	0.0173	0.0000	53.8006	53.8006	1.3600e-003	0.0000	53.8346
Total	0.0333	0.2157	0.2580	1.1200e-003	0.0766	1.0400e-003	0.0776	0.0207	9.7000e-004	0.0216	0.0000	103.9619	103.9619	3.9400e-003	0.0000	104.0605

3.6 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
Total	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471

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3.6 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0208	0.6629	0.1748	1.8400e-003	0.0467	1.8900e-003	0.0486	0.0135	1.8100e-003	0.0153	0.0000	177.0732	177.0732	8.9300e-003	0.0000	177.2964
Worker	0.0900	0.0597	0.6714	2.0400e-003	0.2262	1.4800e-003	0.2277	0.0601	1.3600e-003	0.0615	0.0000	184.7483	184.7483	4.3600e-003	0.0000	184.8574
Total	0.1107	0.7226	0.8462	3.8800e-003	0.2728	3.3700e-003	0.2762	0.0736	3.1700e-003	0.0768	0.0000	361.8214	361.8214	0.0133	0.0000	362.1538

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	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
Total	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467

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3.6 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0208	0.6629	0.1748	1.8400e-003	0.0467	1.8900e-003	0.0486	0.0135	1.8100e-003	0.0153	0.0000	177.0732	177.0732	8.9300e-003	0.0000	177.2964
Worker	0.0900	0.0597	0.6714	2.0400e-003	0.2262	1.4800e-003	0.2277	0.0601	1.3600e-003	0.0615	0.0000	184.7483	184.7483	4.3600e-003	0.0000	184.8574
Total	0.1107	0.7226	0.8462	3.8800e-003	0.2728	3.3700e-003	0.2762	0.0736	3.1700e-003	0.0768	0.0000	361.8214	361.8214	0.0133	0.0000	362.1538

3.6 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	0.0456	0.4172	0.4711	7.8000e-004		0.0203	0.0203		0.0191	0.0191	0.0000	67.2234	67.2234	0.0160	0.0000	67.6232
Total	0.0456	0.4172	0.4711	7.8000e-004		0.0203	0.0203		0.0191	0.0191	0.0000	67.2234	67.2234	0.0160	0.0000	67.6232

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3.6 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	3.6400e-003	0.1229	0.0345	4.0000e-004	0.0104	2.0000e-004	0.0106	3.0100e-003	1.9000e-004	3.2000e-003	0.0000	38.7772	38.7772	1.8000e-003	0.0000	38.8222
Worker	0.0188	0.0120	0.1377	4.4000e-004	0.0505	3.2000e-004	0.0508	0.0134	3.0000e-004	0.0137	0.0000	39.6641	39.6641	8.7000e-004	0.0000	39.6860
Total	0.0225	0.1349	0.1722	8.4000e-004	0.0609	5.2000e-004	0.0614	0.0164	4.9000e-004	0.0169	0.0000	78.4414	78.4414	2.6700e-003	0.0000	78.5082

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	0.0456	0.4172	0.4711	7.8000e-004		0.0203	0.0203		0.0191	0.0191	0.0000	67.2233	67.2233	0.0160	0.0000	67.6231
Total	0.0456	0.4172	0.4711	7.8000e-004		0.0203	0.0203		0.0191	0.0191	0.0000	67.2233	67.2233	0.0160	0.0000	67.6231

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3.6 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	3.6400e-003	0.1229	0.0345	4.0000e-004	0.0104	2.0000e-004	0.0106	3.0100e-003	1.9000e-004	3.2000e-003	0.0000	38.7772	38.7772	1.8000e-003	0.0000	38.8222
Worker	0.0188	0.0120	0.1377	4.4000e-004	0.0505	3.2000e-004	0.0508	0.0134	3.0000e-004	0.0137	0.0000	39.6641	39.6641	8.7000e-004	0.0000	39.6860
Total	0.0225	0.1349	0.1722	8.4000e-004	0.0609	5.2000e-004	0.0614	0.0164	4.9000e-004	0.0169	0.0000	78.4414	78.4414	2.6700e-003	0.0000	78.5082

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7985					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9000e-003	0.0481	0.0573	9.0000e-005		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	8.0428	8.0428	5.5000e-004	0.0000	8.0566
Total	0.8054	0.0481	0.0573	9.0000e-005		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	8.0428	8.0428	5.5000e-004	0.0000	8.0566

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3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7200e-003	3.2600e-003	0.0358	1.0000e-004	0.0111	7.0000e-005	0.0112	2.9500e-003	7.0000e-005	3.0200e-003	0.0000	9.4037	9.4037	2.4000e-004	0.0000	9.4096
Total	4.7200e-003	3.2600e-003	0.0358	1.0000e-004	0.0111	7.0000e-005	0.0112	2.9500e-003	7.0000e-005	3.0200e-003	0.0000	9.4037	9.4037	2.4000e-004	0.0000	9.4096

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	0.7985					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9000e-003	0.0481	0.0573	9.0000e-005		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	8.0427	8.0427	5.5000e-004	0.0000	8.0565
Total	0.8054	0.0481	0.0573	9.0000e-005		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	8.0427	8.0427	5.5000e-004	0.0000	8.0565

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3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7200e-003	3.2600e-003	0.0358	1.0000e-004	0.0111	7.0000e-005	0.0112	2.9500e-003	7.0000e-005	3.0200e-003	0.0000	9.4037	9.4037	2.4000e-004	0.0000	9.4096
Total	4.7200e-003	3.2600e-003	0.0358	1.0000e-004	0.0111	7.0000e-005	0.0112	2.9500e-003	7.0000e-005	3.0200e-003	0.0000	9.4037	9.4037	2.4000e-004	0.0000	9.4096

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.2954					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.1831	0.2358	3.9000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	33.1923	33.1923	2.1600e-003	0.0000	33.2463
Total	3.3220	0.1831	0.2358	3.9000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	33.1923	33.1923	2.1600e-003	0.0000	33.2463

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3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0182	0.0121	0.1360	4.1000e-004	0.0458	3.0000e-004	0.0461	0.0122	2.8000e-004	0.0125	0.0000	37.4174	37.4174	8.8000e-004	0.0000	37.4395
Total	0.0182	0.0121	0.1360	4.1000e-004	0.0458	3.0000e-004	0.0461	0.0122	2.8000e-004	0.0125	0.0000	37.4174	37.4174	8.8000e-004	0.0000	37.4395

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	3.2954					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.1831	0.2358	3.9000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	33.1923	33.1923	2.1600e-003	0.0000	33.2463
Total	3.3220	0.1831	0.2358	3.9000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	33.1923	33.1923	2.1600e-003	0.0000	33.2463

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3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0182	0.0121	0.1360	4.1000e-004	0.0458	3.0000e-004	0.0461	0.0122	2.8000e-004	0.0125	0.0000	37.4174	37.4174	8.8000e-004	0.0000	37.4395
Total	0.0182	0.0121	0.1360	4.1000e-004	0.0458	3.0000e-004	0.0461	0.0122	2.8000e-004	0.0125	0.0000	37.4174	37.4174	8.8000e-004	0.0000	37.4395

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8619					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5200e-003	0.0443	0.0616	1.0000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	8.6811	8.6811	5.2000e-004	0.0000	8.6941
Total	0.8684	0.0443	0.0616	1.0000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	8.6811	8.6811	5.2000e-004	0.0000	8.6941

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3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4700e-003	2.8500e-003	0.0327	1.0000e-004	0.0120	8.0000e-005	0.0121	3.1900e-003	7.0000e-005	3.2600e-003	0.0000	9.4183	9.4183	2.1000e-004	0.0000	9.4235
Total	4.4700e-003	2.8500e-003	0.0327	1.0000e-004	0.0120	8.0000e-005	0.0121	3.1900e-003	7.0000e-005	3.2600e-003	0.0000	9.4183	9.4183	2.1000e-004	0.0000	9.4235

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	0.8619					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5200e-003	0.0443	0.0616	1.0000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	8.6811	8.6811	5.2000e-004	0.0000	8.6940
Total	0.8684	0.0443	0.0616	1.0000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	8.6811	8.6811	5.2000e-004	0.0000	8.6940

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3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4700e-003	2.8500e-003	0.0327	1.0000e-004	0.0120	8.0000e-005	0.0121	3.1900e-003	7.0000e-005	3.2600e-003	0.0000	9.4183	9.4183	2.1000e-004	0.0000	9.4235
Total	4.4700e-003	2.8500e-003	0.0327	1.0000e-004	0.0120	8.0000e-005	0.0121	3.1900e-003	7.0000e-005	3.2600e-003	0.0000	9.4183	9.4183	2.1000e-004	0.0000	9.4235

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

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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	1.1178	4.6708	13.7405	0.0467	4.2259	0.0363	4.2622	1.1328	0.0338	1.1665	0.0000	4,294.134 1	4,294.134 1	0.1904	0.0000	4,298.894 8
Unmitigated	1.1263	4.7232	13.9603	0.0476	4.3122	0.0369	4.3491	1.1559	0.0344	1.1903	0.0000	4,376.839 8	4,376.839 8	0.1936	0.0000	4,381.679 1

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	4,012.80	4,012.80	4,012.80	11,566,848	11,335,511
Total	4,012.80	4,012.80	4,012.80	11,566,848	11,335,511

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
Single Family Housing	11.74	5.87	6.65	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable 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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	652.3299	652.3299	0.0489	0.0101	656.5648
NaturalGas Mitigated	0.0575	0.4909	0.2089	3.1300e-003		0.0397	0.0397		0.0397	0.0397	0.0000	568.5548	568.5548	0.0109	0.0104	571.9335
NaturalGas Unmitigated	0.0613	0.5238	0.2229	3.3400e-003		0.0424	0.0424		0.0424	0.0424	0.0000	606.6005	606.6005	0.0116	0.0111	610.2052

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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					
Single Family Housing	1.13673e+007	0.0613	0.5238	0.2229	3.3400e-003		0.0424	0.0424		0.0424	0.0424	0.0000	606.6005	606.6005	0.0116	0.0111	610.2052
Total		0.0613	0.5238	0.2229	3.3400e-003		0.0424	0.0424		0.0424	0.0424	0.0000	606.6005	606.6005	0.0116	0.0111	610.2052

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					
Single Family Housing	1.06543e+007	0.0575	0.4909	0.2089	3.1300e-003		0.0397	0.0397		0.0397	0.0397	0.0000	568.5548	568.5548	0.0109	0.0104	571.9335
Total		0.0575	0.4909	0.2089	3.1300e-003		0.0397	0.0397		0.0397	0.0397	0.0000	568.5548	568.5548	0.0109	0.0104	571.9335

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	3.71526e+006	652.3299	0.0489	0.0101	656.5648
Total		652.3299	0.0489	0.0101	656.5648

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

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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	3.7255	0.0523	4.5386	2.4000e-004		0.0251	0.0251		0.0251	0.0251	0.0000	7.4120	7.4120	7.1300e-003	0.0000	7.5902
Unmitigated	3.7255	0.0523	4.5386	2.4000e-004		0.0251	0.0251		0.0251	0.0251	0.0000	7.4120	7.4120	7.1300e-003	0.0000	7.5902

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4956					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.0932					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	0.1367	0.0523	4.5386	2.4000e-004		0.0251	0.0251		0.0251	0.0251	0.0000	7.4120	7.4120	7.1300e-003	0.0000	7.5902
Total	3.7255	0.0523	4.5386	2.4000e-004		0.0251	0.0251		0.0251	0.0251	0.0000	7.4120	7.4120	7.1300e-003	0.0000	7.5902

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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	0.4956					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.0932					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	0.1367	0.0523	4.5386	2.4000e-004		0.0251	0.0251		0.0251	0.0251	0.0000	7.4120	7.4120	7.1300e-003	0.0000	7.5902
Total	3.7255	0.0523	4.5386	2.4000e-004		0.0251	0.0251		0.0251	0.0251	0.0000	7.4120	7.4120	7.1300e-003	0.0000	7.5902

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	37.0634	0.0301	0.0181	43.2080
Unmitigated	46.3293	0.0376	0.0226	54.0100

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	28.6678 / 18.0732	46.3293	0.0376	0.0226	54.0100
Total		46.3293	0.0376	0.0226	54.0100

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	22.9342 / 14.4585	37.0634	0.0301	0.0181	43.2080
Total		37.0634	0.0301	0.0181	43.2080

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	85.8652	5.0745	0.0000	212.7273
Unmitigated	85.8652	5.0745	0.0000	212.7273

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	423	85.8652	5.0745	0.0000	212.7273
Total		85.8652	5.0745	0.0000	212.7273

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	423	85.8652	5.0745	0.0000	212.7273
Total		85.8652	5.0745	0.0000	212.7273

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

The Preserve 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
Single Family Housing	440.00	Dwelling Unit	73.50	792,000.00	1175

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	387.09	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - CO2 Intensity Factor updated per SMUD's RPS reductions
- Land Use - Acreage updated per applicant-provided questionnaire
- Construction Phase - Timing updated per estimates provided on applicant's construction questionnaire
- Demolition -
- Grading - Based on applicant-provided questionnaire
- Vehicle Trips - Trip rates and trip lengths updated to match project-specific data from Kimley Horn Traffic Study
- Mobile Land Use Mitigation -
- Energy Mitigation - Title 24 exceedance applied to reflect compliance with the 2019 CBSC.
- Water Mitigation - Water conservation strategy applied to reflect compliance with 2019 CalGreen Code and MWEL0.

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	75.00	391.00
tblConstructionPhase	NumDays	1,110.00	391.00
tblConstructionPhase	NumDays	70.00	23.00
tblConstructionPhase	NumDays	110.00	44.00
tblConstructionPhase	NumDays	75.00	24.00
tblConstructionPhase	NumDays	40.00	11.00
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LotAcreage	142.86	73.50
tblProjectCharacteristics	CO2IntensityFactor	590.31	387.09
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	HO_TL	8.50	6.65
tblVehicleTrips	HS_TL	7.50	5.87
tblVehicleTrips	HW_TL	15.00	11.74
tblVehicleTrips	ST_TR	9.91	9.12
tblVehicleTrips	SU_TR	8.62	9.12
tblVehicleTrips	WD_TR	9.52	9.12

2.0 Emissions Summary

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	28.6329	53.7083	33.4031	0.0865	18.2716	2.0458	20.3174	9.9851	1.8821	11.8673	0.0000	8,618.4329	8,618.4329	2.0828	0.0000	8,670.5031
2022	28.3469	22.5128	26.9515	0.0651	2.5365	0.9186	3.4551	0.6810	0.8691	1.5501	0.0000	6,435.7585	6,435.7585	0.7542	0.0000	6,454.6140
2023	28.1073	20.2996	26.0952	0.0641	2.5364	0.7905	3.3269	0.6810	0.7479	1.4288	0.0000	6,330.3880	6,330.3880	0.7364	0.0000	6,348.7975
Maximum	28.6329	53.7083	33.4031	0.0865	18.2716	2.0458	20.3174	9.9851	1.8821	11.8673	0.0000	8,618.4329	8,618.4329	2.0828	0.0000	8,670.5031

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	28.6329	53.7083	33.4031	0.0865	18.2716	2.0458	20.3174	9.9851	1.8821	11.8673	0.0000	8,618.4328	8,618.4328	2.0828	0.0000	8,670.5030
2022	28.3469	22.5128	26.9515	0.0651	2.5365	0.9186	3.4551	0.6810	0.8691	1.5501	0.0000	6,435.7585	6,435.7585	0.7542	0.0000	6,454.6140
2023	28.1073	20.2996	26.0952	0.0641	2.5364	0.7905	3.3269	0.6810	0.7479	1.4288	0.0000	6,330.3880	6,330.3880	0.7364	0.0000	6,348.7975
Maximum	28.6329	53.7083	33.4031	0.0865	18.2716	2.0458	20.3174	9.9851	1.8821	11.8673	0.0000	8,618.4328	8,618.4328	2.0828	0.0000	8,670.5030

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

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	20.7581	0.4185	36.3087	1.9200e-003		0.2010	0.2010		0.2010	0.2010	0.0000	65.3630	65.3630	0.0629	0.0000	66.9344
Energy	0.3359	2.8701	1.2213	0.0183		0.2321	0.2321		0.2321	0.2321		3,663.9045	3,663.9045	0.0702	0.0672	3,685.6772
Mobile	7.7883	24.9023	87.1323	0.2830	24.5278	0.2022	24.7299	6.5558	0.1884	6.7442		28,665.4343	28,665.4343	1.2077		28,695.6274
Total	28.8823	28.1909	124.6623	0.3032	24.5278	0.6352	25.1629	6.5558	0.6215	7.1772	0.0000	32,394.7017	32,394.7017	1.3408	0.0672	32,448.2390

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	20.7581	0.4185	36.3087	1.9200e-003		0.2010	0.2010		0.2010	0.2010	0.0000	65.3630	65.3630	0.0629	0.0000	66.9344
Energy	0.3148	2.6901	1.1447	0.0172		0.2175	0.2175		0.2175	0.2175		3,434.1063	3,434.1063	0.0658	0.0630	3,454.5135
Mobile	7.7391	24.6368	85.6620	0.2776	24.0372	0.1986	24.2358	6.4247	0.1851	6.6098		28,122.4736	28,122.4736	1.1876		28,152.1624
Total	28.8120	27.7453	123.1153	0.2967	24.0372	0.6171	24.6543	6.4247	0.6036	7.0282	0.0000	31,621.9429	31,621.9429	1.3162	0.0630	31,673.6102

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

	ROG	NOx	CO	SO2	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	0.24	1.58	1.24	2.15	2.00	2.85	2.02	2.00	2.88	2.08	0.00	2.39	2.39	1.83	6.27	2.39

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2021	6/2/2021	5	23	
2	Site Preparation	Site Preparation	6/3/2021	6/17/2021	5	11	
3	Grading	Grading	6/18/2021	8/18/2021	5	44	
4	Paving	Paving	8/19/2021	9/21/2021	5	24	
5	Building Construction	Building Construction	9/22/2021	3/22/2023	5	391	
6	Architectural Coating	Architectural Coating	10/6/2021	4/5/2023	5	391	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 110

Acres of Paving: 0

Residential Indoor: 1,603,800; Residential Outdoor: 534,600; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	55.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	1,250.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	158.00	47.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5354	0.0000	0.5354	0.0811	0.0000	0.0811			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.5354	1.5513	2.0868	0.0811	1.4411	1.5222		3,747.9449	3,747.9449	1.0549		3,774.3174

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0168	0.6103	0.1404	1.8700e-003	0.0416	2.1300e-003	0.0437	0.0114	2.0400e-003	0.0134		200.6467	200.6467	0.0113		200.9288
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
Worker	0.0785	0.0439	0.6425	1.7100e-003	0.1711	1.1100e-003	0.1722	0.0454	1.0200e-003	0.0464		170.7555	170.7555	4.4300e-003		170.8664
Total	0.0954	0.6542	0.7829	3.5800e-003	0.2127	3.2400e-003	0.2159	0.0568	3.0600e-003	0.0598		371.4022	371.4022	0.0157		371.7952

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5354	0.0000	0.5354	0.0811	0.0000	0.0811			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.5354	1.5513	2.0868	0.0811	1.4411	1.5222	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0168	0.6103	0.1404	1.8700e-003	0.0416	2.1300e-003	0.0437	0.0114	2.0400e-003	0.0134		200.6467	200.6467	0.0113		200.9288
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
Worker	0.0785	0.0439	0.6425	1.7100e-003	0.1711	1.1100e-003	0.1722	0.0454	1.0200e-003	0.0464		170.7555	170.7555	4.4300e-003		170.8664
Total	0.0954	0.6542	0.7829	3.5800e-003	0.2127	3.2400e-003	0.2159	0.0568	3.0600e-003	0.0598		371.4022	371.4022	0.0157		371.7952

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0942	0.0527	0.7710	2.0600e-003	0.2053	1.3300e-003	0.2066	0.0545	1.2300e-003	0.0557		204.9066	204.9066	5.3200e-003		205.0396
Total	0.0942	0.0527	0.7710	2.0600e-003	0.2053	1.3300e-003	0.2066	0.0545	1.2300e-003	0.0557		204.9066	204.9066	5.3200e-003		205.0396

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0942	0.0527	0.7710	2.0600e-003	0.2053	1.3300e-003	0.2066	0.0545	1.2300e-003	0.0557		204.9066	204.9066	5.3200e-003		205.0396
Total	0.0942	0.0527	0.7710	2.0600e-003	0.2053	1.3300e-003	0.2066	0.0545	1.2300e-003	0.0557		204.9066	204.9066	5.3200e-003		205.0396

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7203	0.0000	8.7203	3.6036	0.0000	3.6036			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.7203	1.9853	10.7057	3.6036	1.8265	5.4301		6,007.0434	6,007.0434	1.9428		6,055.6134

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1999	7.2499	1.6680	0.0222	0.4941	0.0253	0.5194	0.1352	0.0242	0.1594		2,383.7154	2,383.7154	0.1341		2,387.0678
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
Worker	0.1047	0.0585	0.8567	2.2900e-003	0.2281	1.4800e-003	0.2296	0.0605	1.3600e-003	0.0619		227.6740	227.6740	5.9100e-003		227.8218
Total	0.3046	7.3084	2.5246	0.0245	0.7222	0.0268	0.7490	0.1957	0.0256	0.2213		2,611.3894	2,611.3894	0.1400		2,614.8896

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					8.7203	0.0000	8.7203	3.6036	0.0000	3.6036			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.7203	1.9853	10.7057	3.6036	1.8265	5.4301	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1999	7.2499	1.6680	0.0222	0.4941	0.0253	0.5194	0.1352	0.0242	0.1594		2,383.7154	2,383.7154	0.1341		2,387.0678
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
Worker	0.1047	0.0585	0.8567	2.2900e-003	0.2281	1.4800e-003	0.2296	0.0605	1.3600e-003	0.0619		227.6740	227.6740	5.9100e-003		227.8218
Total	0.3046	7.3084	2.5246	0.0245	0.7222	0.0268	0.7490	0.1957	0.0256	0.2213		2,611.3894	2,611.3894	0.1400		2,614.8896

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.1570	0.0878	1.2850	3.4300e-003	0.6396	2.2200e-003	0.6419	0.1638	2.0400e-003	0.1658		341.5110	341.5110	8.8700e-003		341.7327
Total	0.1570	0.0878	1.2850	3.4300e-003	0.6396	2.2200e-003	0.6419	0.1638	2.0400e-003	0.1658		341.5110	341.5110	8.8700e-003		341.7327

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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.1570	0.0878	1.2850	3.4300e-003	0.6396	2.2200e-003	0.6419	0.1638	2.0400e-003	0.1658		341.5110	341.5110	8.8700e-003		341.7327
Total	0.1570	0.0878	1.2850	3.4300e-003	0.6396	2.2200e-003	0.6419	0.1638	2.0400e-003	0.1658		341.5110	341.5110	8.8700e-003		341.7327

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.6 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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
Vendor	0.1695	5.2736	1.3786	0.0144	0.3695	0.0163	0.3857	0.1063	0.0156	0.1218		1,528.1735	1,528.1735	0.0756			1,530.0644
Worker	0.8271	0.4625	6.7676	0.0181	1.8021	0.0117	1.8138	0.4779	0.0108	0.4887		1,798.6248	1,798.6248	0.0467			1,799.7923
Total	0.9966	5.7361	8.1463	0.0325	2.1715	0.0279	2.1995	0.5842	0.0263	0.6105		3,326.7983	3,326.7983	0.1223			3,329.8567

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160			2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160			2,568.7643

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.6 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.1695	5.2736	1.3786	0.0144	0.3695	0.0163	0.3857	0.1063	0.0156	0.1218		1,528.1735	1,528.1735	0.0756		1,530.0644
Worker	0.8271	0.4625	6.7676	0.0181	1.8021	0.0117	1.8138	0.4779	0.0108	0.4887		1,798.6248	1,798.6248	0.0467		1,799.7923
Total	0.9966	5.7361	8.1463	0.0325	2.1715	0.0279	2.1995	0.5842	0.0263	0.6105		3,326.7983	3,326.7983	0.1223		3,329.8567

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.6 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.1574	4.9881	1.2727	0.0143	0.3694	0.0142	0.3837	0.1063	0.0136	0.1199		1,514.7098	1,514.7098	0.0734		1,516.5459
Worker	0.7731	0.4163	6.2384	0.0174	1.8021	0.0114	1.8134	0.4779	0.0105	0.4884		1,734.0642	1,734.0642	0.0420		1,735.1142
Total	0.9304	5.4044	7.5110	0.0317	2.1715	0.0256	2.1971	0.5842	0.0241	0.6083		3,248.7740	3,248.7740	0.1154		3,251.6601

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.6 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.1574	4.9881	1.2727	0.0143	0.3694	0.0142	0.3837	0.1063	0.0136	0.1199		1,514.7098	1,514.7098	0.0734		1,516.5459
Worker	0.7731	0.4163	6.2384	0.0174	1.8021	0.0114	1.8134	0.4779	0.0105	0.4884		1,734.0642	1,734.0642	0.0420		1,735.1142
Total	0.9304	5.4044	7.5110	0.0317	2.1715	0.0256	2.1971	0.5842	0.0241	0.6083		3,248.7740	3,248.7740	0.1154		3,251.6601

3.6 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

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.6 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	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
Vendor	0.1236	4.1608	1.1289	0.0140	0.3694	6.6400e-003	0.3760	0.1062	6.3500e-003	0.1126		1,486.9223	1,486.9223	0.0664		1,488.5823
Worker	0.7236	0.3750	5.7472	0.0168	1.8021	0.0111	1.8132	0.4779	0.0102	0.4881		1,668.8191	1,668.8191	0.0377		1,669.7608
Total	0.8472	4.5358	6.8761	0.0308	2.1715	0.0177	2.1892	0.5842	0.0166	0.6007		3,155.7414	3,155.7414	0.1041		3,158.3431

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

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.6 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	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
Vendor	0.1236	4.1608	1.1289	0.0140	0.3694	6.6400e-003	0.3760	0.1062	6.3500e-003	0.1126		1,486.9223	1,486.9223	0.0664			1,488.5823
Worker	0.7236	0.3750	5.7472	0.0168	1.8021	0.0111	1.8132	0.4779	0.0102	0.4881		1,668.8191	1,668.8191	0.0377			1,669.7608
Total	0.8472	4.5358	6.8761	0.0308	2.1715	0.0177	2.1892	0.5842	0.0166	0.6007		3,155.7414	3,155.7414	0.1041			3,158.3431

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	25.3491					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193			281.9309
Total	25.5680	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193			281.9309

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.1675	0.0937	1.3707	3.6600e-003	0.3650	2.3600e-003	0.3673	0.0968	2.1800e-003	0.0990		364.2784	364.2784	9.4600e-003		364.5149
Total	0.1675	0.0937	1.3707	3.6600e-003	0.3650	2.3600e-003	0.3673	0.0968	2.1800e-003	0.0990		364.2784	364.2784	9.4600e-003		364.5149

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	25.3491					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	25.5680	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.1675	0.0937	1.3707	3.6600e-003	0.3650	2.3600e-003	0.3673	0.0968	2.1800e-003	0.0990		364.2784	364.2784	9.4600e-003		364.5149
Total	0.1675	0.0937	1.3707	3.6600e-003	0.3650	2.3600e-003	0.3673	0.0968	2.1800e-003	0.0990		364.2784	364.2784	9.4600e-003		364.5149

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	25.3491					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	25.5536	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.1566	0.0843	1.2635	3.5300e-003	0.3650	2.3000e-003	0.3673	0.0968	2.1200e-003	0.0989		351.2029	351.2029	8.5100e-003		351.4155
Total	0.1566	0.0843	1.2635	3.5300e-003	0.3650	2.3000e-003	0.3673	0.0968	2.1200e-003	0.0989		351.2029	351.2029	8.5100e-003		351.4155

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	25.3491					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	25.5536	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.1566	0.0843	1.2635	3.5300e-003	0.3650	2.3000e-003	0.3673	0.0968	2.1200e-003	0.0989		351.2029	351.2029	8.5100e-003		351.4155
Total	0.1566	0.0843	1.2635	3.5300e-003	0.3650	2.3000e-003	0.3673	0.0968	2.1200e-003	0.0989		351.2029	351.2029	8.5100e-003		351.4155

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	25.3491					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	25.5407	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.1466	0.0760	1.1640	3.3900e-003	0.3650	2.2500e-003	0.3672	0.0968	2.0700e-003	0.0989		337.9887	337.9887	7.6300e-003		338.1794
Total	0.1466	0.0760	1.1640	3.3900e-003	0.3650	2.2500e-003	0.3672	0.0968	2.0700e-003	0.0989		337.9887	337.9887	7.6300e-003		338.1794

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	25.3491					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	25.5407	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

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.1466	0.0760	1.1640	3.3900e-003	0.3650	2.2500e-003	0.3672	0.0968	2.0700e-003	0.0989		337.9887	337.9887	7.6300e-003		338.1794
Total	0.1466	0.0760	1.1640	3.3900e-003	0.3650	2.2500e-003	0.3672	0.0968	2.0700e-003	0.0989		337.9887	337.9887	7.6300e-003		338.1794

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.7391	24.6368	85.6620	0.2776	24.0372	0.1986	24.2358	6.4247	0.1851	6.6098		28,122.47 36	28,122.47 36	1.1876		28,152.16 24
Unmitigated	7.7883	24.9023	87.1323	0.2830	24.5278	0.2022	24.7299	6.5558	0.1884	6.7442		28,665.43 43	28,665.43 43	1.2077		28,695.62 74

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	4,012.80	4,012.80	4,012.80	11,566,848	11,335,511
Total	4,012.80	4,012.80	4,012.80	11,566,848	11,335,511

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
Single Family Housing	11.74	5.87	6.65	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817

5.0 Energy Detail

Historical Energy Use: N

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3148	2.6901	1.1447	0.0172		0.2175	0.2175		0.2175	0.2175		3,434.1063	3,434.1063	0.0658	0.0630	3,454.5135
NaturalGas Unmitigated	0.3359	2.8701	1.2213	0.0183		0.2321	0.2321		0.2321	0.2321		3,663.9045	3,663.9045	0.0702	0.0672	3,685.6772

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

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					
Single Family Housing	31143.2	0.3359	2.8701	1.2213	0.0183		0.2321	0.2321		0.2321	0.2321		3,663.9045	3,663.9045	0.0702	0.0672	3,685.6772
Total		0.3359	2.8701	1.2213	0.0183		0.2321	0.2321		0.2321	0.2321		3,663.9045	3,663.9045	0.0702	0.0672	3,685.6772

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					
Single Family Housing	29.1899	0.3148	2.6901	1.1447	0.0172		0.2175	0.2175		0.2175	0.2175		3,434.1063	3,434.1063	0.0658	0.0630	3,454.5135
Total		0.3148	2.6901	1.1447	0.0172		0.2175	0.2175		0.2175	0.2175		3,434.1063	3,434.1063	0.0658	0.0630	3,454.5135

6.0 Area Detail

6.1 Mitigation Measures Area

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	20.7581	0.4185	36.3087	1.9200e-003		0.2010	0.2010		0.2010	0.2010	0.0000	65.3630	65.3630	0.0629	0.0000	66.9344
Unmitigated	20.7581	0.4185	36.3087	1.9200e-003		0.2010	0.2010		0.2010	0.2010	0.0000	65.3630	65.3630	0.0629	0.0000	66.9344

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	2.7155					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	16.9488					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	1.0939	0.4185	36.3087	1.9200e-003		0.2010	0.2010		0.2010	0.2010		65.3630	65.3630	0.0629		66.9344
Total	20.7581	0.4185	36.3087	1.9200e-003		0.2010	0.2010		0.2010	0.2010	0.0000	65.3630	65.3630	0.0629	0.0000	66.9344

The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

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	2.7155					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	16.9488					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	1.0939	0.4185	36.3087	1.9200e-003		0.2010	0.2010		0.2010	0.2010		65.3630	65.3630	0.0629		66.9344
Total	20.7581	0.4185	36.3087	1.9200e-003		0.2010	0.2010		0.2010	0.2010	0.0000	65.3630	65.3630	0.0629	0.0000	66.9344

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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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The Preserve Project - Sacramento Metropolitan AQMD Air District, Summer

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

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

The Preserve 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
Single Family Housing	440.00	Dwelling Unit	73.50	792,000.00	1175

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	387.09	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor updated per SMUD's RPS reductions

Land Use - Acreage updated per applicant-provided questionnaire

Construction Phase - Timing updated per estimates provided on applicant's construction questionnaire

Demolition -

Grading - Based on applicant-provided questionnaire

Vehicle Trips - Trip rates and trip lengths updated to match project-specific data from Kimley Horn Traffic Study

Mobile Land Use Mitigation -

Energy Mitigation - Title 24 exceedance applied to reflect compliance with the 2019 CBSC.

Water Mitigation - Water conservation strategy applied to reflect compliance with 2019 CalGreen Code and MWEL0.

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	75.00	391.00
tblConstructionPhase	NumDays	1,110.00	391.00
tblConstructionPhase	NumDays	70.00	23.00
tblConstructionPhase	NumDays	110.00	44.00
tblConstructionPhase	NumDays	75.00	24.00
tblConstructionPhase	NumDays	40.00	11.00
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LotAcreage	142.86	73.50
tblProjectCharacteristics	CO2IntensityFactor	590.31	387.09
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	HO_TL	8.50	6.65
tblVehicleTrips	HS_TL	7.50	5.87
tblVehicleTrips	HW_TL	15.00	11.74
tblVehicleTrips	ST_TR	9.91	9.12
tblVehicleTrips	SU_TR	8.62	9.12
tblVehicleTrips	WD_TR	9.52	9.12

2.0 Emissions Summary

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	28.6158	54.0019	33.3665	0.0859	18.2716	2.0458	20.3174	9.9851	1.8821	11.8673	0.0000	8,553.5898	8,553.5898	2.0881	0.0000	8,605.7914
2022	28.3331	22.7415	25.7748	0.0623	2.5365	0.9194	3.4558	0.6810	0.8698	1.5508	0.0000	6,148.7748	6,148.7748	0.7525	0.0000	6,167.5869
2023	28.0962	20.4760	24.9746	0.0613	2.5364	0.7910	3.3274	0.6810	0.7483	1.4293	0.0000	6,053.7797	6,053.7797	0.7346	0.0000	6,072.1436
Maximum	28.6158	54.0019	33.3665	0.0859	18.2716	2.0458	20.3174	9.9851	1.8821	11.8673	0.0000	8,553.5898	8,553.5898	2.0881	0.0000	8,605.7914

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	28.6158	54.0019	33.3665	0.0859	18.2716	2.0458	20.3174	9.9851	1.8821	11.8673	0.0000	8,553.5898	8,553.5898	2.0881	0.0000	8,605.7914
2022	28.3331	22.7415	25.7748	0.0623	2.5365	0.9194	3.4558	0.6810	0.8698	1.5508	0.0000	6,148.7748	6,148.7748	0.7525	0.0000	6,167.5869
2023	28.0962	20.4760	24.9746	0.0613	2.5364	0.7910	3.3274	0.6810	0.7483	1.4293	0.0000	6,053.7797	6,053.7797	0.7346	0.0000	6,072.1436
Maximum	28.6158	54.0019	33.3665	0.0859	18.2716	2.0458	20.3174	9.9851	1.8821	11.8673	0.0000	8,553.5898	8,553.5898	2.0881	0.0000	8,605.7914

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

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	20.7581	0.4185	36.3087	1.9200e-003		0.2010	0.2010		0.2010	0.2010	0.0000	65.3630	65.3630	0.0629	0.0000	66.9344
Energy	0.3359	2.8701	1.2213	0.0183		0.2321	0.2321		0.2321	0.2321		3,663.9045	3,663.9045	0.0702	0.0672	3,685.6772
Mobile	5.8490	26.7337	78.8765	0.2554	24.5278	0.2041	24.7318	6.5558	0.1903	6.7460		25,912.5115	25,912.5115	1.1899		25,942.2592
Total	26.9430	30.0223	116.4065	0.2757	24.5278	0.6371	25.1649	6.5558	0.6233	7.1791	0.0000	29,641.7790	29,641.7790	1.3230	0.0672	29,694.8707

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	20.7581	0.4185	36.3087	1.9200e-003		0.2010	0.2010		0.2010	0.2010	0.0000	65.3630	65.3630	0.0629	0.0000	66.9344
Energy	0.3148	2.6901	1.1447	0.0172		0.2175	0.2175		0.2175	0.2175		3,434.1063	3,434.1063	0.0658	0.0630	3,454.5135
Mobile	5.8020	26.4302	77.7010	0.2506	24.0372	0.2005	24.2377	6.4247	0.1869	6.6116		25,422.1045	25,422.1045	1.1710		25,451.3806
Total	26.8750	29.5388	115.1544	0.2697	24.0372	0.6190	24.6562	6.4247	0.6054	7.0301	0.0000	28,921.5738	28,921.5738	1.2997	0.0630	28,972.8284

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

	ROG	NOx	CO	SO2	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	0.25	1.61	1.08	2.17	2.00	2.84	2.02	2.00	2.87	2.08	0.00	2.43	2.43	1.76	6.27	2.43

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2021	6/2/2021	5	23	
2	Site Preparation	Site Preparation	6/3/2021	6/17/2021	5	11	
3	Grading	Grading	6/18/2021	8/18/2021	5	44	
4	Paving	Paving	8/19/2021	9/21/2021	5	24	
5	Building Construction	Building Construction	9/22/2021	3/22/2023	5	391	
6	Architectural Coating	Architectural Coating	10/6/2021	4/5/2023	5	391	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 110

Acres of Paving: 0

Residential Indoor: 1,603,800; Residential Outdoor: 534,600; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	55.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	1,250.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	158.00	47.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5354	0.0000	0.5354	0.0811	0.0000	0.0811			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.5354	1.5513	2.0868	0.0811	1.4411	1.5222		3,747.9449	3,747.9449	1.0549		3,774.3174

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0173	0.6338	0.1501	1.8400e-003	0.0416	2.2100e-003	0.0438	0.0114	2.1100e-003	0.0135		197.5372	197.5372	0.0118		197.8322
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
Worker	0.0765	0.0543	0.5288	1.5000e-003	0.1711	1.1100e-003	0.1722	0.0454	1.0200e-003	0.0464		149.8290	149.8290	3.8200e-003		149.9244
Total	0.0938	0.6881	0.6789	3.3400e-003	0.2127	3.3200e-003	0.2160	0.0568	3.1300e-003	0.0599		347.3662	347.3662	0.0156		347.7565

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5354	0.0000	0.5354	0.0811	0.0000	0.0811			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.5354	1.5513	2.0868	0.0811	1.4411	1.5222	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0173	0.6338	0.1501	1.8400e-003	0.0416	2.2100e-003	0.0438	0.0114	2.1100e-003	0.0135		197.5372	197.5372	0.0118		197.8322
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
Worker	0.0765	0.0543	0.5288	1.5000e-003	0.1711	1.1100e-003	0.1722	0.0454	1.0200e-003	0.0464		149.8290	149.8290	3.8200e-003		149.9244
Total	0.0938	0.6881	0.6789	3.3400e-003	0.2127	3.3200e-003	0.2160	0.0568	3.1300e-003	0.0599		347.3662	347.3662	0.0156		347.7565

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0918	0.0651	0.6345	1.8000e-003	0.2053	1.3300e-003	0.2066	0.0545	1.2300e-003	0.0557		179.7948	179.7948	4.5800e-003		179.9092
Total	0.0918	0.0651	0.6345	1.8000e-003	0.2053	1.3300e-003	0.2066	0.0545	1.2300e-003	0.0557		179.7948	179.7948	4.5800e-003		179.9092

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0918	0.0651	0.6345	1.8000e-003	0.2053	1.3300e-003	0.2066	0.0545	1.2300e-003	0.0557		179.7948	179.7948	4.5800e-003		179.9092
Total	0.0918	0.0651	0.6345	1.8000e-003	0.2053	1.3300e-003	0.2066	0.0545	1.2300e-003	0.0557		179.7948	179.7948	4.5800e-003		179.9092

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7203	0.0000	8.7203	3.6036	0.0000	3.6036			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.7203	1.9853	10.7057	3.6036	1.8265	5.4301		6,007.0434	6,007.0434	1.9428		6,055.6134

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2060	7.5297	1.7830	0.0219	0.4941	0.0262	0.5203	0.1352	0.0251	0.1603		2,346.774 3	2,346.774 3	0.1402		2,350.278 8
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
Worker	0.1020	0.0724	0.7051	2.0100e-003	0.2281	1.4800e-003	0.2296	0.0605	1.3600e-003	0.0619		199.7720	199.7720	5.0900e-003		199.8992
Total	0.3080	7.6021	2.4881	0.0239	0.7222	0.0277	0.7499	0.1957	0.0264	0.2221		2,546.546 3	2,546.546 3	0.1453		2,550.178 0

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					8.7203	0.0000	8.7203	3.6036	0.0000	3.6036			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	8.7203	1.9853	10.7057	3.6036	1.8265	5.4301	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2060	7.5297	1.7830	0.0219	0.4941	0.0262	0.5203	0.1352	0.0251	0.1603		2,346.7743	2,346.7743	0.1402		2,350.2788
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
Worker	0.1020	0.0724	0.7051	2.0100e-003	0.2281	1.4800e-003	0.2296	0.0605	1.3600e-003	0.0619		199.7720	199.7720	5.0900e-003		199.8992
Total	0.3080	7.6021	2.4881	0.0239	0.7222	0.0277	0.7499	0.1957	0.0264	0.2221		2,546.5463	2,546.5463	0.1453		2,550.1780

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.1529	0.1086	1.0576	3.0100e-003	0.6396	2.2200e-003	0.6419	0.1638	2.0400e-003	0.1658		299.6580	299.6580	7.6300e-003		299.8487
Total	0.1529	0.1086	1.0576	3.0100e-003	0.6396	2.2200e-003	0.6419	0.1638	2.0400e-003	0.1658		299.6580	299.6580	7.6300e-003		299.8487

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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.1529	0.1086	1.0576	3.0100e-003	0.6396	2.2200e-003	0.6419	0.1638	2.0400e-003	0.1658		299.6580	299.6580	7.6300e-003		299.8487
Total	0.1529	0.1086	1.0576	3.0100e-003	0.6396	2.2200e-003	0.6419	0.1638	2.0400e-003	0.1658		299.6580	299.6580	7.6300e-003		299.8487

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.6 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.1783	5.4010	1.5658	0.0141	0.3695	0.0171	0.3865	0.1063	0.0163	0.1226		1,496.5621	1,496.5621	0.0811		1,498.5906
Worker	0.8055	0.5717	5.5699	0.0158	1.8021	0.0117	1.8138	0.4779	0.0108	0.4887		1,578.1986	1,578.1986	0.0402		1,579.2033
Total	0.9838	5.9727	7.1357	0.0300	2.1715	0.0288	2.2003	0.5842	0.0271	0.6113		3,074.7607	3,074.7607	0.1213		3,077.7939

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.6 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.1783	5.4010	1.5658	0.0141	0.3695	0.0171	0.3865	0.1063	0.0163	0.1226		1,496.5621	1,496.5621	0.0811		1,498.5906
Worker	0.8055	0.5717	5.5699	0.0158	1.8021	0.0117	1.8138	0.4779	0.0108	0.4887		1,578.1986	1,578.1986	0.0402		1,579.2033
Total	0.9838	5.9727	7.1357	0.0300	2.1715	0.0288	2.2003	0.5842	0.0271	0.6113		3,074.7607	3,074.7607	0.1213		3,077.7939

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.6 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.1656	5.0988	1.4467	0.0140	0.3694	0.0150	0.3844	0.1063	0.0143	0.1206		1,483.1798	1,483.1798	0.0788		1,485.1506
Worker	0.7548	0.5144	5.1151	0.0153	1.8021	0.0114	1.8134	0.4779	0.0105	0.4884		1,521.6343	1,521.6343	0.0361		1,522.5362
Total	0.9204	5.6132	6.5618	0.0293	2.1715	0.0263	2.1978	0.5842	0.0248	0.6090		3,004.8141	3,004.8141	0.1149		3,007.6868

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.6 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.1656	5.0988	1.4467	0.0140	0.3694	0.0150	0.3844	0.1063	0.0143	0.1206		1,483.1798	1,483.1798	0.0788		1,485.1506
Worker	0.7548	0.5144	5.1151	0.0153	1.8021	0.0114	1.8134	0.4779	0.0105	0.4884		1,521.6343	1,521.6343	0.0361		1,522.5362
Total	0.9204	5.6132	6.5618	0.0293	2.1715	0.0263	2.1978	0.5842	0.0248	0.6090		3,004.8141	3,004.8141	0.1149		3,007.6868

3.6 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

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.6 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	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
Vendor	0.1305	4.2312	1.2759	0.0137	0.3694	7.1100e-003	0.3765	0.1062	6.7900e-003	0.1130		1,456.0569	1,456.0569	0.0711			1,457.8332
Worker	0.7087	0.4631	4.6931	0.0147	1.8021	0.0111	1.8132	0.4779	0.0102	0.4881		1,464.4644	1,464.4644	0.0323			1,465.2715
Total	0.8392	4.6943	5.9690	0.0284	2.1715	0.0182	2.1896	0.5842	0.0170	0.6012		2,920.5213	2,920.5213	0.1033			2,923.1047

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

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3.6 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	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
Vendor	0.1305	4.2312	1.2759	0.0137	0.3694	7.1100e-003	0.3765	0.1062	6.7900e-003	0.1130		1,456.0569	1,456.0569	0.0711		1,457.8332
Worker	0.7087	0.4631	4.6931	0.0147	1.8021	0.0111	1.8132	0.4779	0.0102	0.4881		1,464.4644	1,464.4644	0.0323		1,465.2715
Total	0.8392	4.6943	5.9690	0.0284	2.1715	0.0182	2.1896	0.5842	0.0170	0.6012		2,920.5213	2,920.5213	0.1033		2,923.1047

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	25.3491					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	25.5680	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.1631	0.1158	1.1281	3.2100e-003	0.3650	2.3600e-003	0.3673	0.0968	2.1800e-003	0.0990		319.6352	319.6352	8.1400e-003		319.8387
Total	0.1631	0.1158	1.1281	3.2100e-003	0.3650	2.3600e-003	0.3673	0.0968	2.1800e-003	0.0990		319.6352	319.6352	8.1400e-003		319.8387

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	25.3491					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	25.5680	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.1631	0.1158	1.1281	3.2100e-003	0.3650	2.3600e-003	0.3673	0.0968	2.1800e-003	0.0990		319.6352	319.6352	8.1400e-003		319.8387
Total	0.1631	0.1158	1.1281	3.2100e-003	0.3650	2.3600e-003	0.3673	0.0968	2.1800e-003	0.0990		319.6352	319.6352	8.1400e-003		319.8387

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	25.3491					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	25.5536	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.1529	0.1042	1.0360	3.0900e-003	0.3650	2.3000e-003	0.3673	0.0968	2.1200e-003	0.0989		308.1791	308.1791	7.3100e-003		308.3618
Total	0.1529	0.1042	1.0360	3.0900e-003	0.3650	2.3000e-003	0.3673	0.0968	2.1200e-003	0.0989		308.1791	308.1791	7.3100e-003		308.3618

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	25.3491					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	25.5536	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.1529	0.1042	1.0360	3.0900e-003	0.3650	2.3000e-003	0.3673	0.0968	2.1200e-003	0.0989		308.1791	308.1791	7.3100e-003		308.3618
Total	0.1529	0.1042	1.0360	3.0900e-003	0.3650	2.3000e-003	0.3673	0.0968	2.1200e-003	0.0989		308.1791	308.1791	7.3100e-003		308.3618

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	25.3491					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	25.5407	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.1435	0.0938	0.9505	2.9800e-003	0.3650	2.2500e-003	0.3672	0.0968	2.0700e-003	0.0989		296.6004	296.6004	6.5400e-003		296.7639
Total	0.1435	0.0938	0.9505	2.9800e-003	0.3650	2.2500e-003	0.3672	0.0968	2.0700e-003	0.0989		296.6004	296.6004	6.5400e-003		296.7639

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	25.3491					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	25.5407	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

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3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.1435	0.0938	0.9505	2.9800e-003	0.3650	2.2500e-003	0.3672	0.0968	2.0700e-003	0.0989		296.6004	296.6004	6.5400e-003		296.7639
Total	0.1435	0.0938	0.9505	2.9800e-003	0.3650	2.2500e-003	0.3672	0.0968	2.0700e-003	0.0989		296.6004	296.6004	6.5400e-003		296.7639

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.8020	26.4302	77.7010	0.2506	24.0372	0.2005	24.2377	6.4247	0.1869	6.6116		25,422.1045	25,422.1045	1.1710		25,451.3806
Unmitigated	5.8490	26.7337	78.8765	0.2554	24.5278	0.2041	24.7318	6.5558	0.1903	6.7460		25,912.5115	25,912.5115	1.1899		25,942.2592

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	4,012.80	4,012.80	4,012.80	11,566,848	11,335,511
Total	4,012.80	4,012.80	4,012.80	11,566,848	11,335,511

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
Single Family Housing	11.74	5.87	6.65	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817

5.0 Energy Detail

Historical Energy Use: N

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3148	2.6901	1.1447	0.0172		0.2175	0.2175		0.2175	0.2175		3,434.1063	3,434.1063	0.0658	0.0630	3,454.5135
NaturalGas Unmitigated	0.3359	2.8701	1.2213	0.0183		0.2321	0.2321		0.2321	0.2321		3,663.9045	3,663.9045	0.0702	0.0672	3,685.6772

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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	lb/day										lb/day					
Single Family Housing	31143.2	0.3359	2.8701	1.2213	0.0183		0.2321	0.2321		0.2321	0.2321		3,663.9045	3,663.9045	0.0702	0.0672	3,685.6772
Total		0.3359	2.8701	1.2213	0.0183		0.2321	0.2321		0.2321	0.2321		3,663.9045	3,663.9045	0.0702	0.0672	3,685.6772

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					
Single Family Housing	29.1899	0.3148	2.6901	1.1447	0.0172		0.2175	0.2175		0.2175	0.2175		3,434.1063	3,434.1063	0.0658	0.0630	3,454.5135
Total		0.3148	2.6901	1.1447	0.0172		0.2175	0.2175		0.2175	0.2175		3,434.1063	3,434.1063	0.0658	0.0630	3,454.5135

6.0 Area Detail

6.1 Mitigation Measures Area

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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	lb/day										lb/day					
Mitigated	20.7581	0.4185	36.3087	1.9200e-003		0.2010	0.2010		0.2010	0.2010	0.0000	65.3630	65.3630	0.0629	0.0000	66.9344
Unmitigated	20.7581	0.4185	36.3087	1.9200e-003		0.2010	0.2010		0.2010	0.2010	0.0000	65.3630	65.3630	0.0629	0.0000	66.9344

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	2.7155					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	16.9488					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	1.0939	0.4185	36.3087	1.9200e-003		0.2010	0.2010		0.2010	0.2010		65.3630	65.3630	0.0629		66.9344
Total	20.7581	0.4185	36.3087	1.9200e-003		0.2010	0.2010		0.2010	0.2010	0.0000	65.3630	65.3630	0.0629	0.0000	66.9344

The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

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	2.7155					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	16.9488					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	1.0939	0.4185	36.3087	1.9200e-003		0.2010	0.2010		0.2010	0.2010		65.3630	65.3630	0.0629		66.9344
Total	20.7581	0.4185	36.3087	1.9200e-003		0.2010	0.2010		0.2010	0.2010	0.0000	65.3630	65.3630	0.0629	0.0000	66.9344

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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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The Preserve Project - Sacramento Metropolitan AQMD Air District, Winter

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

The Preserve Project

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
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	5	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	6	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

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	4.00000E-002	2.75500E-001	3.54600E-001	5.80000E-004	1.59900E-002	1.59900E-002	0.00000E+000	4.99161E+001	4.99161E+001	3.23000E-003	0.00000E+000	4.99969E+001
Concrete/Industrial Saws	4.43000E-003	3.49400E-002	4.22500E-002	7.00000E-005	1.99000E-003	1.99000E-003	0.00000E+000	6.18305E+000	6.18305E+000	3.60000E-004	0.00000E+000	6.19202E+000
Cranes	6.45300E-002	7.27660E-001	3.25130E-001	9.90000E-004	3.00900E-002	2.76900E-002	0.00000E+000	8.67193E+001	8.67193E+001	2.80500E-002	0.00000E+000	8.74205E+001
Excavators	1.79900E-002	1.69040E-001	2.56840E-001	4.10000E-004	8.20000E-003	7.54000E-003	0.00000E+000	3.56207E+001	3.56207E+001	1.15200E-002	0.00000E+000	3.59087E+001
Forklifts	6.73900E-002	6.24020E-001	6.77440E-001	9.00000E-004	4.15800E-002	3.82500E-002	0.00000E+000	7.87619E+001	7.87619E+001	2.54700E-002	0.00000E+000	7.93987E+001
Generator Sets	6.48100E-002	5.74990E-001	7.18780E-001	1.29000E-003	2.89400E-002	2.89400E-002	0.00000E+000	1.10498E+002	1.10498E+002	5.26000E-003	0.00000E+000	1.10630E+002
Graders	9.97000E-003	1.30340E-001	3.88800E-002	1.50000E-004	4.13000E-003	3.80000E-003	0.00000E+000	1.28068E+001	1.28068E+001	4.14000E-003	0.00000E+000	1.29103E+001
Pavers	5.91000E-003	6.22800E-002	6.97200E-002	1.10000E-004	3.01000E-003	2.77000E-003	0.00000E+000	9.90778E+000	9.90778E+000	3.20000E-003	0.00000E+000	9.98789E+000
Paving Equipment	4.61000E-003	4.65700E-002	6.09900E-002	1.00000E-004	2.30000E-003	2.12000E-003	0.00000E+000	8.58826E+000	8.58826E+000	2.78000E-003	0.00000E+000	8.65770E+000
Rollers	4.55000E-003	4.61800E-002	4.51300E-002	6.00000E-005	2.82000E-003	2.60000E-003	0.00000E+000	5.53213E+000	5.53213E+000	1.79000E-003	0.00000E+000	5.57686E+000
Rubber Tired Dozers	6.43500E-002	6.74730E-001	2.48320E-001	5.20000E-004	3.27500E-002	3.01300E-002	0.00000E+000	4.61595E+001	4.61595E+001	1.49300E-002	0.00000E+000	4.65327E+001
Scrapers	4.09000E-002	4.70920E-001	3.08210E-001	6.70000E-004	1.83200E-002	1.68600E-002	0.00000E+000	5.85933E+001	5.85933E+001	1.89500E-002	0.00000E+000	5.90671E+001
Tractors/Loaders/Backhoes	9.80300E-002	9.95480E-001	1.29929E+000	1.80000E-003	5.46100E-002	5.02400E-002	0.00000E+000	1.58254E+002	1.58254E+002	5.11800E-002	0.00000E+000	1.59533E+002
Welders	5.44000E-002	2.86450E-001	3.31850E-001	5.00000E-004	1.26100E-002	1.26100E-002	0.00000E+000	3.67971E+001	3.67971E+001	4.42000E-003	0.00000E+000	3.69076E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	4.00000E-002	2.75500E-001	3.54600E-001	5.80000E-004	1.59900E-002	1.59900E-002	0.00000E+000	4.99161E+001	4.99161E+001	3.23000E-003	0.00000E+000	4.99969E+001
Concrete/Industrial Saws	4.43000E-003	3.49400E-002	4.22500E-002	7.00000E-005	1.99000E-003	1.99000E-003	0.00000E+000	6.18304E+000	6.18304E+000	3.60000E-004	0.00000E+000	6.19202E+000
Cranes	6.45300E-002	7.27650E-001	3.25130E-001	9.90000E-004	3.00900E-002	2.76900E-002	0.00000E+000	8.67192E+001	8.67192E+001	2.80500E-002	0.00000E+000	8.74204E+001
Excavators	1.79900E-002	1.69040E-001	2.56840E-001	4.10000E-004	8.20000E-003	7.54000E-003	0.00000E+000	3.56206E+001	3.56206E+001	1.15200E-002	0.00000E+000	3.59086E+001
Forklifts	6.73900E-002	6.24020E-001	6.77440E-001	9.00000E-004	4.15800E-002	3.82500E-002	0.00000E+000	7.87618E+001	7.87618E+001	2.54700E-002	0.00000E+000	7.93986E+001
Generator Sets	6.48100E-002	5.74990E-001	7.18780E-001	1.29000E-003	2.89400E-002	2.89400E-002	0.00000E+000	1.10498E+002	1.10498E+002	5.26000E-003	0.00000E+000	1.10630E+002
Graders	9.97000E-003	1.30340E-001	3.88800E-002	1.50000E-004	4.13000E-003	3.80000E-003	0.00000E+000	1.28068E+001	1.28068E+001	4.14000E-003	0.00000E+000	1.29103E+001
Pavers	5.91000E-003	6.22800E-002	6.97200E-002	1.10000E-004	3.01000E-003	2.77000E-003	0.00000E+000	9.90777E+000	9.90777E+000	3.20000E-003	0.00000E+000	9.98788E+000
Paving Equipment	4.61000E-003	4.65700E-002	6.09900E-002	1.00000E-004	2.30000E-003	2.12000E-003	0.00000E+000	8.58825E+000	8.58825E+000	2.78000E-003	0.00000E+000	8.65769E+000
Rollers	4.55000E-003	4.61800E-002	4.51300E-002	6.00000E-005	2.82000E-003	2.60000E-003	0.00000E+000	5.53213E+000	5.53213E+000	1.79000E-003	0.00000E+000	5.57686E+000
Rubber Tired Dozers	6.43500E-002	6.74730E-001	2.48320E-001	5.20000E-004	3.27500E-002	3.01300E-002	0.00000E+000	4.61595E+001	4.61595E+001	1.49300E-002	0.00000E+000	4.65327E+001
Scrapers	4.09000E-002	4.70920E-001	3.08210E-001	6.70000E-004	1.83200E-002	1.68600E-002	0.00000E+000	5.85933E+001	5.85933E+001	1.89500E-002	0.00000E+000	5.90670E+001
Tractors/Loaders/Balkhoes	9.80300E-002	9.95480E-001	1.29929E+000	1.80000E-003	5.46100E-002	5.02400E-002	0.00000E+000	1.58253E+002	1.58253E+002	5.11800E-002	0.00000E+000	1.59533E+002
Welders	5.44000E-002	2.86450E-001	3.31850E-001	5.00000E-004	1.26100E-002	1.26100E-002	0.00000E+000	3.67971E+001	3.67971E+001	4.42000E-003	0.00000E+000	3.69075E+001

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	1.20202E-006	1.20202E-006	0.00000E+000	0.00000E+000	1.20007E-006
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.61732E-006	1.61732E-006	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	1.37427E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15315E-006	1.15315E-006	0.00000E+000	0.00000E+000	1.14390E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12294E-006	1.12294E-006	0.00000E+000	0.00000E+000	1.11394E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14269E-006	1.14269E-006	0.00000E+000	0.00000E+000	1.13352E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17649E-006	1.17649E-006	0.00000E+000	0.00000E+000	1.17509E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	7.80837E-007	7.80837E-007	0.00000E+000	0.00000E+000	7.74574E-007
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.00931E-006	1.00931E-006	0.00000E+000	0.00000E+000	1.00121E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16438E-006	1.16438E-006	0.00000E+000	0.00000E+000	1.15504E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.29984E-006	1.29984E-006	0.00000E+000	0.00000E+000	1.07451E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.02401E-006	1.02401E-006	0.00000E+000	0.00000E+000	1.18509E-006
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.13742E-006	1.13742E-006	0.00000E+000	0.00000E+000	1.19098E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.08704E-006	1.08704E-006	0.00000E+000	0.00000E+000	1.08379E-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		
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	0.07	0.02	0.07	0.02	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.41	0.11	0.41	0.11	0.00	0.00
Demolition	Fugitive Dust	0.01	0.00	0.01	0.00	0.00	0.00
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.19	0.08	0.19	0.08	0.00	0.00
Grading	Roads	0.02	0.00	0.02	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.10	0.05	0.10	0.05	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00
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	0.76	1.11	1.57	1.89	1.73	1.74	0.00	1.89	1.89	1.62	0.00	1.89
Natural Gas	6.27	6.27	6.27	6.29	6.28	6.28	0.00	6.27	6.27	6.28	6.29	6.27
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	19.99	20.03	20.00
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: Low Density Suburban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

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			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.02			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	3.00			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00			2.00
No	Commute	Provide Ride Sharing Program	5.00			
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.02		

Area Mitigation

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

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	7.00	
No	Install High Efficiency Lighting	0.00	
Yes	On-site Renewable	0.00	100.00

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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Minor Project Health Effects Tool

Latitude	38.576556	<-- Step 1: Input latitude (Please chose a value between 38.0 and 39.7)
Longitude	-121.195628	<-- Step 2: Input longitude (Please chose a value between -122.5 and -120.0)

PM2.5 Health Endpoint	Age Range ¹	Incidences Across the Reduced Sacramento 4-km Modeling Domain Resulting from Project Emissions (per year) ^{2,5}	Incidences Across the 5-Air-District Region Resulting from Project Emissions (per year) ²	Percent of Background Health Incidences Across the 5-Air-District Region ³	Total Number of Health Incidences Across the 5-Air-District Region (per year) ⁴
		(Mean)	(Mean)		
Respiratory					
Emergency Room Visits, Asthma	0 - 99	0.74	0.67	0.0037%	18419
Hospital Admissions, Asthma	0 - 64	0.047	0.043	0.0024%	1846
Hospital Admissions, All Respiratory	65 - 99	0.29	0.26	0.0013%	19644
Cardiovascular					
Hospital Admissions, All Cardiovascular (less Myocardial Infarctions)	65 - 99	0.16	0.14	0.00060%	24037
Acute Myocardial Infarction, Nonfatal	18 - 24	0.000060	0.000054	0.0014%	4
Acute Myocardial Infarction, Nonfatal	25 - 44	0.0054	0.0050	0.0016%	308
Acute Myocardial Infarction, Nonfatal	45 - 54	0.014	0.013	0.0018%	741
Acute Myocardial Infarction, Nonfatal	55 - 64	0.023	0.022	0.0018%	1239
Acute Myocardial Infarction, Nonfatal	65 - 99	0.098	0.091	0.0018%	5052
Mortality					
Mortality, All Cause	30 - 99	1.9	1.7	0.0039%	44766

Ozone Health Endpoint	Age Range ¹	Incidences Across the Reduced Sacramento 4-km Modeling Domain Resulting from Project Emissions (per year) ^{2,5}	Incidences Across the 5-Air-District Region Resulting from Project Emissions (per year) ²	Percent of Background Health Incidences Across the 5-Air-District Region ³	Total Number of Health Incidences Across the 5-Air-District Region (per year) ⁴
		(Mean)	(Mean)		
Respiratory					
Hospital Admissions, All Respiratory	65 - 99	0.069	0.055	0.00028%	19644
Emergency Room Visits, Asthma	0 - 17	0.25	0.20	0.0034%	5859
Emergency Room Visits, Asthma	18 - 99	0.44	0.36	0.0028%	12560
Mortality					
Mortality, Non-Accidental	0 - 99	0.044	0.037	0.00012%	30386

1. Affected age ranges are shown. Other age ranges are available, but the endpoints and age ranges shown here are the ones used by the USEPA in their health assessments. The age ranges are consistent with the epidemiological study that is the basis of the health function.

2. Health effects are shown in terms of incidences of each health endpoint and how it compares to the base (2035 base year health effect incidences, or “background health incidence”) values. Health effects are shown for the Reduced Sacramento 4-km Modeling Domain and the 5-Air-District Region.

3. The percent of background health incidence uses the mean incidence. The background health incidence is an estimate of the average number of people that are affected by the health endpoint in a given population over a given period of time. In this case, the background incidence rates cover the 5-Air-District Region (estimated 2035 population of 3,271,451 persons). Health incidence rates and other health data are typically collected by the government as well as the World Health Organization. The background incidence rates used here are obtained from BenMAP.

4. The total number of health incidences across the 5-Air-District Region is calculated based on the modeling data. The information is presented to assist in providing overall health context.

5. The technical specifications and map for the Reduced Sacramento 4-km Modeling Domain are included in Appendix A, Table A-1 and Appendix B, Figure B-2 of the *Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District*.

Sac Metro Air District Minor Project Health Effects Tool, version 2, published June 2020