

APPENDIX A: AIR QUALITY MODELING WORKSHEETS

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SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Winter

SMC Art Complex Replacement - Construction Emissions Only
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	2,310.00	Student	1.65	19,028.00	0
General Office Building	1.69	1000sqft	0.00	1,692.00	0
Parking Lot	40.00	Space	0.00	16,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Proposed 20,720 sf Art Complex Replacement building with 19,028 sf classroom/lab space and 1,692 sf office space. Enrollment based on Fall 2019 enrollment

Construction Phase - Based on approximate 24-month construction timeline provided by Applicant.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Equipment use on worst-case day.

Grading - Estimated 32,000 cy export for one level subterranean.

Demolition -

Trips and VMT - Assumes 14 cy haul truck capacity with average 30 mi to disposal site

Vehicle Trips - IGNORE OPERATIONAL EMISSIONS FOR CONSTRUCTION EMISSIONS SCENARIO.

Stationary Sources - Emergency Generators and Fire Pumps -

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	95.00
tblConstructionPhase	NumDays	200.00	347.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	4.00	66.00
tblConstructionPhase	PhaseEndDate	6/27/2022	8/11/2023
tblConstructionPhase	PhaseEndDate	5/30/2022	3/30/2023
tblConstructionPhase	PhaseEndDate	8/13/2021	8/31/2021
tblConstructionPhase	PhaseEndDate	8/23/2021	12/1/2021
tblConstructionPhase	PhaseStartDate	6/14/2022	4/1/2023
tblConstructionPhase	PhaseStartDate	8/24/2021	12/1/2021
tblConstructionPhase	PhaseStartDate	7/19/2021	8/1/2021

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tblConstructionPhase	PhaseStartDate	8/18/2021	9/1/2021
tblGrading	AcresOfGrading	24.75	1.50
tblGrading	MaterialExported	0.00	32,000.00
tblLandUse	LandUseSquareFeet	100,836.67	19,028.00
tblLandUse	LotAcreage	2.31	1.65
tblLandUse	LotAcreage	0.04	0.00
tblLandUse	LotAcreage	0.36	0.00
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,000.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripNumber	4,000.00	4,571.00

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2.0 Emissions Summary

SMC Art Complex Replacement - Construction Emissions Only - South Coast 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	4.9156	61.0994	36.5172	0.1329	6.7279	1.8737	8.6017	3.0760	1.7726	4.8486	0.0000	13,584.1756	13,584.1756	1.7156	0.0000	13,627.0650
2022	2.3956	19.2161	20.8401	0.0377	0.2061	0.9000	1.1060	0.0555	0.8680	0.9235	0.0000	3,508.0651	3,508.0651	0.5675	0.0000	3,522.2528
2023	2.9164	17.8278	20.6581	0.0377	0.2061	0.7900	0.9961	0.0555	0.7617	0.8173	0.0000	3,497.9972	3,497.9972	0.5549	0.0000	3,511.8691
Maximum	4.9156	61.0994	36.5172	0.1329	6.7279	1.8737	8.6017	3.0760	1.7726	4.8486	0.0000	13,584.1756	13,584.1756	1.7156	0.0000	13,627.0650

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	4.9156	61.0994	36.5172	0.1329	4.2004	1.8737	6.0741	1.7045	1.7726	3.4771	0.0000	13,584.1755	13,584.1755	1.7156	0.0000	13,627.0650
2022	2.3956	19.2161	20.8401	0.0377	0.2061	0.9000	1.1060	0.0555	0.8680	0.9235	0.0000	3,508.0651	3,508.0651	0.5675	0.0000	3,522.2528
2023	2.9164	17.8278	20.6581	0.0377	0.2061	0.7900	0.9961	0.0555	0.7617	0.8173	0.0000	3,497.9972	3,497.9972	0.5549	0.0000	3,511.8691
Maximum	4.9156	61.0994	36.5172	0.1329	4.2004	1.8737	6.0741	1.7045	1.7726	3.4771	0.0000	13,584.1755	13,584.1755	1.7156	0.0000	13,627.0650

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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	35.40	0.00	23.61	43.03	0.00	20.81	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Energy	0.0157	0.1431	0.1202	8.6000e-004		0.0109	0.0109		0.0109	0.0109		171.7621	171.7621	3.2900e-003	3.1500e-003	172.7828
Mobile	4.0991	19.1189	52.1529	0.2062	18.3757	0.1494	18.5251	4.9164	0.1390	5.0554		21,027.1854	21,027.1854	0.9808		21,051.7061
Stationary	0.8204	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	5.4273	22.9336	54.6054	0.2110	18.3757	0.2819	18.6576	4.9164	0.2714	5.1878		21,619.2192	21,619.2192	1.0443	3.1500e-003	21,646.2657

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Winter

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	lb/day										lb/day					
Area	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Energy	0.0134	0.1221	0.1026	7.3000e-004		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003		146.5725	146.5725	2.8100e-003	2.6900e-003	147.4435
Mobile	4.0991	19.1189	52.1529	0.2062	18.3757	0.1494	18.5251	4.9164	0.1390	5.0554		21,027.1854	21,027.1854	0.9808		21,051.7061
Stationary	0.8204	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	5.4250	22.9126	54.5877	0.2109	18.3757	0.2803	18.6560	4.9164	0.2698	5.1862		21,594.0296	21,594.0296	1.0438	2.6900e-003	21,620.9263

	ROG	NOx	CO	SO2	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	0.04	0.09	0.03	0.06	0.00	0.57	0.01	0.00	0.59	0.03	0.00	0.12	0.12	0.05	14.60	0.12

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	8/1/2021	8/31/2021	5	22	
2	Grading	Grading	9/1/2021	12/1/2021	5	66	
3	Building Construction	Building Construction	12/1/2021	3/30/2023	5	347	
4	Architectural Coating	Architectural Coating	4/1/2023	8/11/2023	5	95	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 31,080; Non-Residential Outdoor: 10,360; Striped Parking Area: 960 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	4	6.00	78	0.48
Grading	Excavators	1	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Architectural Coating	Aerial Lifts	2	8.00	63	0.31
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pavers	1	6.00	130	0.42
Building Construction	Rollers	1	6.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	6.00	231	0.29
Grading	Graders	1	6.00	187	0.41
Building Construction	Welders	3	8.00	46	0.45

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Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	62.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	4,571.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Building Construction	11	15.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 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					0.6147	0.0000	0.6147	0.0931	0.0000	0.0931			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.717 1	2,322.717 1	0.5940		2,337.565 8
Total	1.9930	19.6966	14.4925	0.0241	0.6147	1.0409	1.6556	0.0931	0.9715	1.0646		2,322.717 1	2,322.717 1	0.5940		2,337.565 8

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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	lb/day										lb/day					
Hauling	0.0290	0.9538	0.2222	3.0400e-003	0.0738	3.3000e-003	0.0771	0.0202	3.1600e-003	0.0234		329.5298	329.5298	0.0216		330.0685
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	0.0600	0.0390	0.4401	1.3500e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		134.6368	134.6368	3.6100e-003		134.7270
Total	0.0889	0.9927	0.6623	4.3900e-003	0.2192	4.3700e-003	0.2235	0.0588	4.1500e-003	0.0629		464.1666	464.1666	0.0252		464.7956

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					0.2766	0.0000	0.2766	0.0419	0.0000	0.0419			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
Total	1.9930	19.6966	14.4925	0.0241	0.2766	1.0409	1.3175	0.0419	0.9715	1.0134	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658

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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	lb/day										lb/day					
Hauling	0.0290	0.9538	0.2222	3.0400e-003	0.0738	3.3000e-003	0.0771	0.0202	3.1600e-003	0.0234		329.5298	329.5298	0.0216		330.0685
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	0.0600	0.0390	0.4401	1.3500e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		134.6368	134.6368	3.6100e-003		134.7270
Total	0.0889	0.9927	0.6623	4.3900e-003	0.2192	4.3700e-003	0.2235	0.0588	4.1500e-003	0.0629		464.1666	464.1666	0.0252		464.7956

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5955	0.0000	4.5955	2.4936	0.0000	2.4936			0.0000			0.0000
Off-Road	1.5187	16.4949	9.6196	0.0193		0.7429	0.7429		0.6835	0.6835		1,867.7577	1,867.7577	0.6041		1,882.8595
Total	1.5187	16.4949	9.6196	0.0193	4.5955	0.7429	5.3384	2.4936	0.6835	3.1770		1,867.7577	1,867.7577	0.6041		1,882.8595

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3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7124	23.4388	5.4596	0.0748	1.8146	0.0811	1.8957	0.4972	0.0776	0.5748		8,098.2827	8,098.2827	0.5296		8,111.5231
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	0.0461	0.0300	0.3385	1.0400e-003	0.1118	8.2000e-004	0.1126	0.0296	7.6000e-004	0.0304		103.5668	103.5668	2.7800e-003		103.6362
Total	0.7585	23.4688	5.7982	0.0758	1.9264	0.0819	2.0083	0.5269	0.0783	0.6052		8,201.8495	8,201.8495	0.5324		8,215.1593

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	1.1221	0.0000	1.1221			0.0000			0.0000
Off-Road	1.5187	16.4949	9.6196	0.0193		0.7429	0.7429		0.6835	0.6835	0.0000	1,867.7577	1,867.7577	0.6041		1,882.8595
Total	1.5187	16.4949	9.6196	0.0193	2.0680	0.7429	2.8109	1.1221	0.6835	1.8056	0.0000	1,867.7577	1,867.7577	0.6041		1,882.8595

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Winter

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7124	23.4388	5.4596	0.0748	1.8146	0.0811	1.8957	0.4972	0.0776	0.5748		8,098.2827	8,098.2827	0.5296		8,111.5231
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	0.0461	0.0300	0.3385	1.0400e-003	0.1118	8.2000e-004	0.1126	0.0296	7.6000e-004	0.0304		103.5668	103.5668	2.7800e-003		103.6362
Total	0.7585	23.4688	5.7982	0.0758	1.9264	0.0819	2.0083	0.5269	0.0783	0.6052		8,201.8495	8,201.8495	0.5324		8,215.1593

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5516	20.5203	20.4397	0.0348		1.0465	1.0465		1.0086	1.0086		3,200.4880	3,200.4880	0.5643		3,214.5964
Total	2.5516	20.5203	20.4397	0.0348		1.0465	1.0465		1.0086	1.0086		3,200.4880	3,200.4880	0.5643		3,214.5964

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3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0176	0.5704	0.1520	1.4900e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		158.7301	158.7301	0.0106		158.9956
Worker	0.0692	0.0450	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
Total	0.0868	0.6154	0.6598	3.0500e-003	0.2061	2.4200e-003	0.2085	0.0555	2.2800e-003	0.0578		314.0803	314.0803	0.0148		314.4499

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	2.5516	20.5203	20.4397	0.0348		1.0465	1.0465		1.0086	1.0086	0.0000	3,200.4880	3,200.4880	0.5643		3,214.5964
Total	2.5516	20.5203	20.4397	0.0348		1.0465	1.0465		1.0086	1.0086	0.0000	3,200.4880	3,200.4880	0.5643		3,214.5964

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Winter

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0176	0.5704	0.1520	1.4900e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		158.7301	158.7301	0.0106		158.9956
Worker	0.0692	0.0450	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
Total	0.0868	0.6154	0.6598	3.0500e-003	0.2061	2.4200e-003	0.2085	0.0555	2.2800e-003	0.0578		314.0803	314.0803	0.0148		314.4499

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3140	18.6345	20.2277	0.0348		0.8977	0.8977		0.8659	0.8659		3,200.9681	3,200.9681	0.5535		3,214.8064
Total	2.3140	18.6345	20.2277	0.0348		0.8977	0.8977		0.8659	0.8659		3,200.9681	3,200.9681	0.5535		3,214.8064

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Winter

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0165	0.5410	0.1437	1.4700e-003	0.0384	1.0300e-003	0.0394	0.0111	9.9000e-004	0.0120		157.3165	157.3165	0.0102		157.5720
Worker	0.0651	0.0406	0.4687	1.5000e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		149.7805	149.7805	3.7600e-003		149.8745
Total	0.0816	0.5816	0.6124	2.9700e-003	0.2061	2.2300e-003	0.2083	0.0555	2.0900e-003	0.0576		307.0970	307.0970	0.0140		307.4464

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	2.3140	18.6345	20.2277	0.0348		0.8977	0.8977		0.8659	0.8659	0.0000	3,200.9681	3,200.9681	0.5535		3,214.8064
Total	2.3140	18.6345	20.2277	0.0348		0.8977	0.8977		0.8659	0.8659	0.0000	3,200.9681	3,200.9681	0.5535		3,214.8064

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Winter

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0165	0.5410	0.1437	1.4700e-003	0.0384	1.0300e-003	0.0394	0.0111	9.9000e-004	0.0120		157.3165	157.3165	0.0102		157.5720
Worker	0.0651	0.0406	0.4687	1.5000e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		149.7805	149.7805	3.7600e-003		149.8745
Total	0.0816	0.5816	0.6124	2.9700e-003	0.2061	2.2300e-003	0.2083	0.0555	2.0900e-003	0.0576		307.0970	307.0970	0.0140		307.4464

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1441	17.3831	20.0991	0.0348		0.7884	0.7884		0.7602	0.7602		3,201.1857	3,201.1857	0.5426		3,214.7518
Total	2.1441	17.3831	20.0991	0.0348		0.7884	0.7884		0.7602	0.7602		3,201.1857	3,201.1857	0.5426		3,214.7518

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Winter

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0123	0.4080	0.1271	1.4300e-003	0.0384	4.8000e-004	0.0389	0.0111	4.6000e-004	0.0115		152.6170	152.6170	8.8500e-003		152.8381
Worker	0.0614	0.0367	0.4320	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		144.1945	144.1945	3.3900e-003		144.2792
Total	0.0737	0.4448	0.5591	2.8800e-003	0.2061	1.6500e-003	0.2077	0.0555	1.5400e-003	0.0571		296.8115	296.8115	0.0122		297.1173

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	2.1441	17.3831	20.0991	0.0348		0.7884	0.7884		0.7602	0.7602	0.0000	3,201.1857	3,201.1857	0.5426		3,214.7518
Total	2.1441	17.3831	20.0991	0.0348		0.7884	0.7884		0.7602	0.7602	0.0000	3,201.1857	3,201.1857	0.5426		3,214.7518

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Winter

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0123	0.4080	0.1271	1.4300e-003	0.0384	4.8000e-004	0.0389	0.0111	4.6000e-004	0.0115		152.6170	152.6170	8.8500e-003		152.8381
Worker	0.0614	0.0367	0.4320	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		144.1945	144.1945	3.3900e-003		144.2792
Total	0.0737	0.4448	0.5591	2.8800e-003	0.2061	1.6500e-003	0.2077	0.0555	1.5400e-003	0.0571		296.8115	296.8115	0.0122		297.1173

3.5 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.8355	6.2723	9.4158	0.0152		0.3016	0.3016		0.3001	0.3001		1,449.1434	1,449.1434	0.1719		1,453.4417
Total	2.9041	6.2723	9.4158	0.0152		0.3016	0.3016		0.3001	0.3001		1,449.1434	1,449.1434	0.1719		1,453.4417

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Winter

3.5 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	0.0123	7.3400e-003	0.0864	2.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.2000e-004	9.1100e-003		28.8389	28.8389	6.8000e-004		28.8558
Total	0.0123	7.3400e-003	0.0864	2.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.2000e-004	9.1100e-003		28.8389	28.8389	6.8000e-004		28.8558

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.8355	6.2723	9.4158	0.0152		0.3016	0.3016		0.3001	0.3001	0.0000	1,449.1434	1,449.1434	0.1719		1,453.4417
Total	2.9041	6.2723	9.4158	0.0152		0.3016	0.3016		0.3001	0.3001	0.0000	1,449.1434	1,449.1434	0.1719		1,453.4417

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Winter

3.5 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	0.0123	7.3400e-003	0.0864	2.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.2000e-004	9.1100e-003		28.8389	28.8389	6.8000e-004		28.8558
Total	0.0123	7.3400e-003	0.0864	2.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.2000e-004	9.1100e-003		28.8389	28.8389	6.8000e-004		28.8558

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

SMC Art Complex Replacement - Construction Emissions Only - South Coast 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	4.0991	19.1189	52.1529	0.2062	18.3757	0.1494	18.5251	4.9164	0.1390	5.0554		21,027.18 54	21,027.18 54	0.9808		21,051.70 61
Unmitigated	4.0991	19.1189	52.1529	0.2062	18.3757	0.1494	18.5251	4.9164	0.1390	5.0554		21,027.18 54	21,027.18 54	0.9808		21,051.70 61

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	18.66	4.16	1.78	45,677	45,677
Junior College (2Yr)	2,841.30	970.20	92.40	6,588,307	6,588,307
Parking Lot	0.00	0.00	0.00		
Total	2,859.96	974.36	94.18	6,633,984	6,633,984

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Junior College (2Yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Junior College (2Yr)	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Parking Lot	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0134	0.1221	0.1026	7.3000e-004		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003		146.5725	146.5725	2.8100e-003	2.6900e-003	147.4435
NaturalGas Unmitigated	0.0157	0.1431	0.1202	8.6000e-004		0.0109	0.0109		0.0109	0.0109		171.7621	171.7621	3.2900e-003	3.1500e-003	172.7828

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Winter

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					
General Office Building	48.2568	5.2000e-004	4.7300e-003	3.9700e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004		5.6773	5.6773	1.1000e-004	1.0000e-004	5.7110
Junior College (2Yr)	1411.72	0.0152	0.1384	0.1163	8.3000e-004		0.0105	0.0105		0.0105	0.0105		166.0849	166.0849	3.1800e-003	3.0400e-003	167.0718
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0157	0.1431	0.1202	8.6000e-004		0.0109	0.0109		0.0109	0.0109		171.7621	171.7621	3.2900e-003	3.1400e-003	172.7828

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.0412894	4.5000e-004	4.0500e-003	3.4000e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8576	4.8576	9.0000e-005	9.0000e-005	4.8865
Junior College (2Yr)	1.20458	0.0130	0.1181	0.0992	7.1000e-004		8.9800e-003	8.9800e-003		8.9800e-003	8.9800e-003		141.7149	141.7149	2.7200e-003	2.6000e-003	142.5570
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0134	0.1222	0.1026	7.3000e-004		9.2900e-003	9.2900e-003		9.2900e-003	9.2900e-003		146.5725	146.5725	2.8100e-003	2.6900e-003	147.4435

6.0 Area Detail

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Winter

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Unmitigated	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0538					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0222	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Total	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484

SMC Art Complex Replacement - Construction Emissions Only - South Coast 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	0.0538					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0222	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Total	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484

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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10.0 Stationary Equipment

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Winter

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	12	1000	0.73	Diesel

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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10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	0.8204	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	0.8204	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283

11.0 Vegetation

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

SMC Art Complex Replacement - Construction Emissions Only
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	2,310.00	Student	1.65	19,028.00	0
General Office Building	1.69	1000sqft	0.00	1,692.00	0
Parking Lot	40.00	Space	0.00	16,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

Project Characteristics -

Land Use - Proposed 20,720 sf Art Complex Replacement building with 19,028 sf classroom/lab space and 1,692 sf office space. Enrollment based on Fall 2019 enrollment

Construction Phase - Based on approximate 24-month construction timeline provided by Applicant.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Equipment use on worst-case day.

Grading - Estimated 32,000 cy export for one level subterranean.

Demolition -

Trips and VMT - Assumes 14 cy haul truck capacity with average 30 mi to disposal site

Vehicle Trips - IGNORE OPERATIONAL EMISSIONS FOR CONSTRUCTION EMISSIONS SCENARIO.

Stationary Sources - Emergency Generators and Fire Pumps -

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	95.00
tblConstructionPhase	NumDays	200.00	347.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	4.00	66.00
tblConstructionPhase	PhaseEndDate	6/27/2022	8/11/2023
tblConstructionPhase	PhaseEndDate	5/30/2022	3/30/2023
tblConstructionPhase	PhaseEndDate	8/13/2021	8/31/2021
tblConstructionPhase	PhaseEndDate	8/23/2021	12/1/2021
tblConstructionPhase	PhaseStartDate	6/14/2022	4/1/2023
tblConstructionPhase	PhaseStartDate	8/24/2021	12/1/2021
tblConstructionPhase	PhaseStartDate	7/19/2021	8/1/2021

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

tblConstructionPhase	PhaseStartDate	8/18/2021	9/1/2021
tblGrading	AcresOfGrading	24.75	1.50
tblGrading	MaterialExported	0.00	32,000.00
tblLandUse	LandUseSquareFeet	100,836.67	19,028.00
tblLandUse	LotAcreage	2.31	1.65
tblLandUse	LotAcreage	0.04	0.00
tblLandUse	LotAcreage	0.36	0.00
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,000.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripNumber	4,000.00	4,571.00

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

2.0 Emissions Summary

SMC Art Complex Replacement - Construction Emissions Only - South Coast 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	4.8907	60.6554	36.3333	0.1341	6.7279	1.8729	8.6008	3.0760	1.7718	4.8478	0.0000	13,713.11 29	13,713.11 29	1.6992	0.0000	13,755.59 33
2022	2.3891	19.2148	20.8786	0.0379	0.2061	0.8999	1.1060	0.0555	0.8679	0.9235	0.0000	3,523.162 2	3,523.162 2	0.5671	0.0000	3,537.339 4
2023	2.9153	17.8273	20.6973	0.0378	0.2061	0.7900	0.9961	0.0555	0.7617	0.8172	0.0000	3,512.495 9	3,512.495 9	0.5546	0.0000	3,526.360 5
Maximum	4.8907	60.6554	36.3333	0.1341	6.7279	1.8729	8.6008	3.0760	1.7718	4.8478	0.0000	13,713.11 29	13,713.11 29	1.6992	0.0000	13,755.59 33

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	4.8907	60.6554	36.3333	0.1341	4.2004	1.8729	6.0733	1.7045	1.7718	3.4763	0.0000	13,713.11 29	13,713.11 29	1.6992	0.0000	13,755.59 33
2022	2.3891	19.2148	20.8786	0.0379	0.2061	0.8999	1.1060	0.0555	0.8679	0.9235	0.0000	3,523.162 2	3,523.162 2	0.5671	0.0000	3,537.339 4
2023	2.9153	17.8273	20.6973	0.0378	0.2061	0.7900	0.9961	0.0555	0.7617	0.8172	0.0000	3,512.495 9	3,512.495 9	0.5546	0.0000	3,526.360 5
Maximum	4.8907	60.6554	36.3333	0.1341	4.2004	1.8729	6.0733	1.7045	1.7718	3.4763	0.0000	13,713.11 29	13,713.11 29	1.6992	0.0000	13,755.59 33

SMC Art Complex Replacement - Construction Emissions Only - South Coast 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	0.00	0.00	0.00	0.00	35.40	0.00	23.62	43.03	0.00	20.82	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Energy	0.0157	0.1431	0.1202	8.6000e-004		0.0109	0.0109		0.0109	0.0109		171.7621	171.7621	3.2900e-003	3.1500e-003	172.7828
Mobile	4.3330	18.7883	55.7263	0.2179	18.3757	0.1487	18.5244	4.9164	0.1382	5.0547		22,201.4245	22,201.4245	0.9810		22,225.9502
Stationary	0.8204	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	5.6612	22.6030	58.1788	0.2227	18.3757	0.2811	18.6568	4.9164	0.2707	5.1871		22,793.4583	22,793.4583	1.0445	3.1500e-003	22,820.5097

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

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	lb/day										lb/day					
Area	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Energy	0.0134	0.1221	0.1026	7.3000e-004		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003		146.5725	146.5725	2.8100e-003	2.6900e-003	147.4435
Mobile	4.3330	18.7883	55.7263	0.2179	18.3757	0.1487	18.5244	4.9164	0.1382	5.0547		22,201.4245	22,201.4245	0.9810		22,225.9502
Stationary	0.8204	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	5.6589	22.5820	58.1611	0.2226	18.3757	0.2795	18.6552	4.9164	0.2691	5.1855		22,768.2687	22,768.2687	1.0440	2.6900e-003	22,795.1704

	ROG	NOx	CO	SO2	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	0.04	0.09	0.03	0.06	0.00	0.57	0.01	0.00	0.59	0.03	0.00	0.11	0.11	0.05	14.60	0.11

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	8/1/2021	8/31/2021	5	22	
2	Grading	Grading	9/1/2021	12/1/2021	5	66	
3	Building Construction	Building Construction	12/1/2021	3/30/2023	5	347	
4	Architectural Coating	Architectural Coating	4/1/2023	8/11/2023	5	95	

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 31,080; Non-Residential Outdoor: 10,360; Striped Parking Area: 960 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	4	6.00	78	0.48
Grading	Excavators	1	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Architectural Coating	Aerial Lifts	2	8.00	63	0.31
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pavers	1	6.00	130	0.42
Building Construction	Rollers	1	6.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	6.00	231	0.29
Grading	Graders	1	6.00	187	0.41
Building Construction	Welders	3	8.00	46	0.45

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	62.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	4,571.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Building Construction	11	15.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 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					0.6147	0.0000	0.6147	0.0931	0.0000	0.0931			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.717 1	2,322.717 1	0.5940		2,337.565 8
Total	1.9930	19.6966	14.4925	0.0241	0.6147	1.0409	1.6556	0.0931	0.9715	1.0646		2,322.717 1	2,322.717 1	0.5940		2,337.565 8

SMC Art Complex Replacement - Construction Emissions Only - South Coast 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	0.0284	0.9359	0.2115	3.0800e-003	0.0738	3.2700e-003	0.0771	0.0202	3.1200e-003	0.0234		333.8541	333.8541	0.0209		334.3764
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	0.0549	0.0356	0.4897	1.4400e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		143.9624	143.9624	3.8700e-003		144.0592
Total	0.0833	0.9715	0.7012	4.5200e-003	0.2192	4.3400e-003	0.2235	0.0588	4.1100e-003	0.0629		477.8165	477.8165	0.0248		478.4356

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					0.2766	0.0000	0.2766	0.0419	0.0000	0.0419			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
Total	1.9930	19.6966	14.4925	0.0241	0.2766	1.0409	1.3175	0.0419	0.9715	1.0134	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658

SMC Art Complex Replacement - Construction Emissions Only - South Coast 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	0.0284	0.9359	0.2115	3.0800e-003	0.0738	3.2700e-003	0.0771	0.0202	3.1200e-003	0.0234		333.8541	333.8541	0.0209		334.3764
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	0.0549	0.0356	0.4897	1.4400e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		143.9624	143.9624	3.8700e-003		144.0592
Total	0.0833	0.9715	0.7012	4.5200e-003	0.2192	4.3400e-003	0.2235	0.0588	4.1100e-003	0.0629		477.8165	477.8165	0.0248		478.4356

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5955	0.0000	4.5955	2.4936	0.0000	2.4936			0.0000			0.0000
Off-Road	1.5187	16.4949	9.6196	0.0193		0.7429	0.7429		0.6835	0.6835		1,867.7577	1,867.7577	0.6041		1,882.8595
Total	1.5187	16.4949	9.6196	0.0193	4.5955	0.7429	5.3384	2.4936	0.6835	3.1770		1,867.7577	1,867.7577	0.6041		1,882.8595

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6982	22.9995	5.1964	0.0758	1.8146	0.0803	1.8948	0.4972	0.0768	0.5740		8,204.553 2	8,204.553 2	0.5135		8,217.390 2
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	0.0422	0.0274	0.3767	1.1100e-003	0.1118	8.2000e-004	0.1126	0.0296	7.6000e-004	0.0304		110.7403	110.7403	2.9800e-003		110.8148
Total	0.7404	23.0269	5.5731	0.0769	1.9264	0.0811	2.0074	0.5269	0.0775	0.6044		8,315.293 5	8,315.293 5	0.5165		8,328.205 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					2.0680	0.0000	2.0680	1.1221	0.0000	1.1221			0.0000			0.0000
Off-Road	1.5187	16.4949	9.6196	0.0193		0.7429	0.7429		0.6835	0.6835	0.0000	1,867.757 7	1,867.757 7	0.6041		1,882.859 5
Total	1.5187	16.4949	9.6196	0.0193	2.0680	0.7429	2.8109	1.1221	0.6835	1.8056	0.0000	1,867.757 7	1,867.757 7	0.6041		1,882.859 5

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6982	22.9995	5.1964	0.0758	1.8146	0.0803	1.8948	0.4972	0.0768	0.5740		8,204.553 2	8,204.553 2	0.5135		8,217.390 2
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	0.0422	0.0274	0.3767	1.1100e-003	0.1118	8.2000e-004	0.1126	0.0296	7.6000e-004	0.0304		110.7403	110.7403	2.9800e-003		110.8148
Total	0.7404	23.0269	5.5731	0.0769	1.9264	0.0811	2.0074	0.5269	0.0775	0.6044		8,315.293 5	8,315.293 5	0.5165		8,328.205 0

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5516	20.5203	20.4397	0.0348		1.0465	1.0465		1.0086	1.0086		3,200.488 0	3,200.488 0	0.5643		3,214.596 4
Total	2.5516	20.5203	20.4397	0.0348		1.0465	1.0465		1.0086	1.0086		3,200.488 0	3,200.488 0	0.5643		3,214.596 4

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0167	0.5723	0.1358	1.5300e-003	0.0384	1.1500e-003	0.0396	0.0111	1.1000e-003	0.0122		163.4631	163.4631	9.8900e-003		163.7103
Worker	0.0633	0.0411	0.5651	1.6700e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		166.1105	166.1105	4.4700e-003		166.2222
Total	0.0800	0.6133	0.7009	3.2000e-003	0.2061	2.3800e-003	0.2085	0.0555	2.2400e-003	0.0578		329.5736	329.5736	0.0144		329.9325

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	2.5516	20.5203	20.4397	0.0348		1.0465	1.0465		1.0086	1.0086	0.0000	3,200.4880	3,200.4880	0.5643		3,214.5964
Total	2.5516	20.5203	20.4397	0.0348		1.0465	1.0465		1.0086	1.0086	0.0000	3,200.4880	3,200.4880	0.5643		3,214.5964

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0167	0.5723	0.1358	1.5300e-003	0.0384	1.1500e-003	0.0396	0.0111	1.1000e-003	0.0122		163.4631	163.4631	9.8900e-003		163.7103
Worker	0.0633	0.0411	0.5651	1.6700e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		166.1105	166.1105	4.4700e-003		166.2222
Total	0.0800	0.6133	0.7009	3.2000e-003	0.2061	2.3800e-003	0.2085	0.0555	2.2400e-003	0.0578		329.5736	329.5736	0.0144		329.9325

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3140	18.6345	20.2277	0.0348		0.8977	0.8977		0.8659	0.8659		3,200.9681	3,200.9681	0.5535		3,214.8064
Total	2.3140	18.6345	20.2277	0.0348		0.8977	0.8977		0.8659	0.8659		3,200.9681	3,200.9681	0.5535		3,214.8064

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0157	0.5432	0.1283	1.5200e-003	0.0384	1.0000e-003	0.0394	0.0111	9.5000e-004	0.0120		162.0355	162.0355	9.5200e-003		162.2735
Worker	0.0594	0.0371	0.5225	1.6100e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		160.1586	160.1586	4.0400e-003		160.2595
Total	0.0751	0.5803	0.6509	3.1300e-003	0.2061	2.2000e-003	0.2083	0.0555	2.0500e-003	0.0576		322.1941	322.1941	0.0136		322.5330

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	2.3140	18.6345	20.2277	0.0348		0.8977	0.8977		0.8659	0.8659	0.0000	3,200.9681	3,200.9681	0.5535		3,214.8064
Total	2.3140	18.6345	20.2277	0.0348		0.8977	0.8977		0.8659	0.8659	0.0000	3,200.9681	3,200.9681	0.5535		3,214.8064

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0157	0.5432	0.1283	1.5200e-003	0.0384	1.0000e-003	0.0394	0.0111	9.5000e-004	0.0120		162.0355	162.0355	9.5200e-003		162.2735
Worker	0.0594	0.0371	0.5225	1.6100e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		160.1586	160.1586	4.0400e-003		160.2595
Total	0.0751	0.5803	0.6509	3.1300e-003	0.2061	2.2000e-003	0.2083	0.0555	2.0500e-003	0.0576		322.1941	322.1941	0.0136		322.5330

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1441	17.3831	20.0991	0.0348		0.7884	0.7884		0.7602	0.7602		3,201.1857	3,201.1857	0.5426		3,214.7518
Total	2.1441	17.3831	20.0991	0.0348		0.7884	0.7884		0.7602	0.7602		3,201.1857	3,201.1857	0.5426		3,214.7518

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0117	0.4107	0.1156	1.4700e-003	0.0384	4.6000e-004	0.0389	0.0111	4.4000e-004	0.0115		157.1206	157.1206	8.3000e-003		157.3282
Worker	0.0558	0.0336	0.4825	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		154.1895	154.1895	3.6400e-003		154.2806
Total	0.0675	0.4442	0.5982	3.0200e-003	0.2061	1.6300e-003	0.2077	0.0555	1.5200e-003	0.0570		311.3102	311.3102	0.0119		311.6087

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	2.1441	17.3831	20.0991	0.0348		0.7884	0.7884		0.7602	0.7602	0.0000	3,201.1857	3,201.1857	0.5426		3,214.7518
Total	2.1441	17.3831	20.0991	0.0348		0.7884	0.7884		0.7602	0.7602	0.0000	3,201.1857	3,201.1857	0.5426		3,214.7518

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0117	0.4107	0.1156	1.4700e-003	0.0384	4.6000e-004	0.0389	0.0111	4.4000e-004	0.0115		157.1206	157.1206	8.3000e-003		157.3282
Worker	0.0558	0.0336	0.4825	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		154.1895	154.1895	3.6400e-003		154.2806
Total	0.0675	0.4442	0.5982	3.0200e-003	0.2061	1.6300e-003	0.2077	0.0555	1.5200e-003	0.0570		311.3102	311.3102	0.0119		311.6087

3.5 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.8355	6.2723	9.4158	0.0152		0.3016	0.3016		0.3001	0.3001		1,449.1434	1,449.1434	0.1719		1,453.4417
Total	2.9041	6.2723	9.4158	0.0152		0.3016	0.3016		0.3001	0.3001		1,449.1434	1,449.1434	0.1719		1,453.4417

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

3.5 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	0.0112	6.7100e-003	0.0965	3.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.2000e-004	9.1100e-003		30.8379	30.8379	7.3000e-004		30.8561
Total	0.0112	6.7100e-003	0.0965	3.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.2000e-004	9.1100e-003		30.8379	30.8379	7.3000e-004		30.8561

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.8355	6.2723	9.4158	0.0152		0.3016	0.3016		0.3001	0.3001	0.0000	1,449.1434	1,449.1434	0.1719		1,453.4417
Total	2.9041	6.2723	9.4158	0.0152		0.3016	0.3016		0.3001	0.3001	0.0000	1,449.1434	1,449.1434	0.1719		1,453.4417

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

3.5 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	0.0112	6.7100e-003	0.0965	3.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.2000e-004	9.1100e-003		30.8379	30.8379	7.3000e-004		30.8561
Total	0.0112	6.7100e-003	0.0965	3.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.2000e-004	9.1100e-003		30.8379	30.8379	7.3000e-004		30.8561

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

SMC Art Complex Replacement - Construction Emissions Only - South Coast 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	4.3330	18.7883	55.7263	0.2179	18.3757	0.1487	18.5244	4.9164	0.1382	5.0547		22,201.4245	22,201.4245	0.9810		22,225.9502
Unmitigated	4.3330	18.7883	55.7263	0.2179	18.3757	0.1487	18.5244	4.9164	0.1382	5.0547		22,201.4245	22,201.4245	0.9810		22,225.9502

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	18.66	4.16	1.78	45,677	45,677
Junior College (2Yr)	2,841.30	970.20	92.40	6,588,307	6,588,307
Parking Lot	0.00	0.00	0.00		
Total	2,859.96	974.36	94.18	6,633,984	6,633,984

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Junior College (2Yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Junior College (2Yr)	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Parking Lot	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0134	0.1221	0.1026	7.3000e-004		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003		146.5725	146.5725	2.8100e-003	2.6900e-003	147.4435
NaturalGas Unmitigated	0.0157	0.1431	0.1202	8.6000e-004		0.0109	0.0109		0.0109	0.0109		171.7621	171.7621	3.2900e-003	3.1500e-003	172.7828

SMC Art Complex Replacement - Construction Emissions Only - South Coast 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					
General Office Building	48.2568	5.2000e-004	4.7300e-003	3.9700e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004		5.6773	5.6773	1.1000e-004	1.0000e-004	5.7110
Junior College (2Yr)	1411.72	0.0152	0.1384	0.1163	8.3000e-004		0.0105	0.0105		0.0105	0.0105		166.0849	166.0849	3.1800e-003	3.0400e-003	167.0718
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0157	0.1431	0.1202	8.6000e-004		0.0109	0.0109		0.0109	0.0109		171.7621	171.7621	3.2900e-003	3.1400e-003	172.7828

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.0412894	4.5000e-004	4.0500e-003	3.4000e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8576	4.8576	9.0000e-005	9.0000e-005	4.8865
Junior College (2Yr)	1.20458	0.0130	0.1181	0.0992	7.1000e-004		8.9800e-003	8.9800e-003		8.9800e-003	8.9800e-003		141.7149	141.7149	2.7200e-003	2.6000e-003	142.5570
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0134	0.1222	0.1026	7.3000e-004		9.2900e-003	9.2900e-003		9.2900e-003	9.2900e-003		146.5725	146.5725	2.8100e-003	2.6900e-003	147.4435

6.0 Area Detail

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Unmitigated	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0538					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0222	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Total	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484

SMC Art Complex Replacement - Construction Emissions Only - South Coast 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	0.0538					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0222	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Total	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484

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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10.0 Stationary Equipment

SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Summer

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	12	1000	0.73	Diesel

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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10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	0.8204	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	0.8204	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283

11.0 Vegetation

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

SMC Art Complex Replacement - Operational Emissions Only
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	2,310.00	Student	1.65	19,028.00	0
General Office Building	1.69	1000sqft	0.00	1,692.00	0
Parking Lot	40.00	Space	0.00	16,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

Project Characteristics -

Land Use - Proposed 20,720 sf Art Complex Replacement building with 19,028 sf classroom/lab space and 1,692 office space. Enrollment based on Fall 2019 enrollment.

Construction Phase - IGNORE CONSTRUCTION EMISSIONS FOR OPERATIONAL EMISSIONS SCENARIO.

Vehicle Trips - Mobile trips based on Transportation Assessment.

Stationary Sources - Emergency Generators and Fire Pumps -

Sequestration -

Energy Mitigation - 15 percent reduction above Title 24 and solar requirement of 2 watts/building sf

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	95.00
tblConstructionPhase	NumDays	200.00	347.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	4.00	66.00
tblConstructionPhase	PhaseEndDate	6/27/2022	8/11/2023
tblConstructionPhase	PhaseEndDate	5/30/2022	3/30/2023
tblConstructionPhase	PhaseEndDate	8/13/2021	8/31/2021
tblConstructionPhase	PhaseEndDate	8/23/2021	12/1/2021
tblConstructionPhase	PhaseStartDate	6/14/2022	4/1/2023
tblConstructionPhase	PhaseStartDate	8/24/2021	12/1/2021
tblConstructionPhase	PhaseStartDate	7/19/2021	8/1/2021
tblConstructionPhase	PhaseStartDate	8/18/2021	9/1/2021
tblGrading	AcresOfGrading	24.75	1.50
tblLandUse	LandUseSquareFeet	100,836.67	19,028.00
tblLandUse	LotAcreage	2.31	1.65
tblLandUse	LotAcreage	0.04	0.00

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

tblLandUse	LotAcreage	0.36	0.00
tblSequestration	NumberOfNewTrees	0.00	19.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,000.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.00

2.0 Emissions Summary

SMC Art Complex Replacement - Operational Emissions Only - South Coast 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	3.2245	28.6062	20.1614	0.0400	4.8362	1.3253	6.1615	2.5645	1.2506	3.8151	0.0000	3,763.2185	3,763.2185	0.8158	0.0000	3,783.6126
2022	1.7302	13.0847	13.3388	0.0250	0.2061	0.5911	0.7972	0.0555	0.5709	0.6265	0.0000	2,308.6399	2,308.6399	0.3626	0.0000	2,317.7045
2023	2.2726	12.1551	13.1701	0.0249	0.2061	0.5161	0.7222	0.0555	0.4984	0.5539	0.0000	2,298.5991	2,298.5991	0.3522	0.0000	2,307.4030
Maximum	3.2245	28.6062	20.1614	0.0400	4.8362	1.3253	6.1615	2.5645	1.2506	3.8151	0.0000	3,763.2185	3,763.2185	0.8158	0.0000	3,783.6126

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	3.2245	28.6062	20.1614	0.0400	4.8362	1.3253	6.1615	2.5645	1.2506	3.8151	0.0000	3,763.2185	3,763.2185	0.8158	0.0000	3,783.6126
2022	1.7302	13.0847	13.3388	0.0250	0.2061	0.5911	0.7972	0.0555	0.5709	0.6265	0.0000	2,308.6399	2,308.6399	0.3626	0.0000	2,317.7045
2023	2.2726	12.1551	13.1701	0.0249	0.2061	0.5161	0.7222	0.0555	0.4984	0.5539	0.0000	2,298.5991	2,298.5991	0.3522	0.0000	2,307.4030
Maximum	3.2245	28.6062	20.1614	0.0400	4.8362	1.3253	6.1615	2.5645	1.2506	3.8151	0.0000	3,763.2185	3,763.2185	0.8158	0.0000	3,783.6126

SMC Art Complex Replacement - Operational Emissions Only - South Coast 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	0.00	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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Energy	0.0157	0.1431	0.1202	8.6000e-004		0.0109	0.0109		0.0109	0.0109		171.7621	171.7621	3.2900e-003	3.1500e-003	172.7828
Mobile	4.0717	18.9901	51.7945	0.2048	18.2479	0.1484	18.3963	4.8822	0.1380	5.0202		20,881.4895	20,881.4895	0.9741		20,905.8419
Stationary	0.8204	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	5.3998	22.8048	54.2470	0.2096	18.2479	0.2808	18.5287	4.8822	0.2704	5.1527		21,473.5234	21,473.5234	1.0376	3.1500e-003	21,500.4014

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

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	lb/day										lb/day					
Area	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Energy	0.0134	0.1221	0.1026	7.3000e-004		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003		146.5725	146.5725	2.8100e-003	2.6900e-003	147.4435
Mobile	4.0717	18.9901	51.7945	0.2048	18.2479	0.1484	18.3963	4.8822	0.1380	5.0202		20,881.4895	20,881.4895	0.9741		20,905.8419
Stationary	0.8204	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	5.3975	22.7838	54.2294	0.2095	18.2479	0.2792	18.5271	4.8822	0.2688	5.1511		21,448.3337	21,448.3337	1.0371	2.6900e-003	21,475.0621

	ROG	NOx	CO	SO2	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	0.04	0.09	0.03	0.06	0.00	0.57	0.01	0.00	0.59	0.03	0.00	0.12	0.12	0.05	14.60	0.12

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	8/1/2021	8/31/2021	5	22	
2	Grading	Grading	9/1/2021	12/1/2021	5	66	
3	Building Construction	Building Construction	12/1/2021	3/30/2023	5	347	
4	Architectural Coating	Architectural Coating	4/1/2023	8/11/2023	5	95	

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 1.5****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 31,080; Non-Residential Outdoor: 10,360; Striped Parking Area: 960 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

SMC Art Complex Replacement - Operational Emissions Only - South Coast 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	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	15.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	14.70	6.90	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					
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.7171	2,322.7171	0.5940		2,337.5658
Total	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.7171	2,322.7171	0.5940		2,337.5658

SMC Art Complex Replacement - Operational Emissions Only - South Coast 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	0.0000	0.0000	0.0000	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	0.0600	0.0390	0.4401	1.3500e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		134.6368	134.6368	3.6100e-003		134.7270
Total	0.0600	0.0390	0.4401	1.3500e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		134.6368	134.6368	3.6100e-003		134.7270

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	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
Total	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658

SMC Art Complex Replacement - Operational Emissions Only - South Coast 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	0.0000	0.0000	0.0000	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	0.0600	0.0390	0.4401	1.3500e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		134.6368	134.6368	3.6100e-003		134.7270
Total	0.0600	0.0390	0.4401	1.3500e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		134.6368	134.6368	3.6100e-003		134.7270

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5407	0.0000	4.5407	2.4853	0.0000	2.4853			0.0000			0.0000
Off-Road	1.2884	14.3307	6.3314	0.0141		0.6379	0.6379		0.5869	0.5869		1,365.0648	1,365.0648	0.4415		1,376.1020
Total	1.2884	14.3307	6.3314	0.0141	4.5407	0.6379	5.1786	2.4853	0.5869	3.0722		1,365.0648	1,365.0648	0.4415		1,376.1020

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0369	0.0240	0.2708	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		82.8534	82.8534	2.2200e-003		82.9089
Total	0.0369	0.0240	0.2708	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		82.8534	82.8534	2.2200e-003		82.9089

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					4.5407	0.0000	4.5407	2.4853	0.0000	2.4853			0.0000			0.0000
Off-Road	1.2884	14.3307	6.3314	0.0141		0.6379	0.6379		0.5869	0.5869	0.0000	1,365.0648	1,365.0648	0.4415		1,376.1020
Total	1.2884	14.3307	6.3314	0.0141	4.5407	0.6379	5.1786	2.4853	0.5869	3.0722	0.0000	1,365.0648	1,365.0648	0.4415		1,376.1020

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0369	0.0240	0.2708	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		82.8534	82.8534	2.2200e-003		82.9089
Total	0.0369	0.0240	0.2708	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		82.8534	82.8534	2.2200e-003		82.9089

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0176	0.5704	0.1520	1.4900e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		158.7301	158.7301	0.0106		158.9956
Worker	0.0692	0.0450	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
Total	0.0868	0.6154	0.6598	3.0500e-003	0.2061	2.4200e-003	0.2085	0.0555	2.2800e-003	0.0578		314.0803	314.0803	0.0148		314.4499

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	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0176	0.5704	0.1520	1.4900e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		158.7301	158.7301	0.0106		158.9956
Worker	0.0692	0.0450	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
Total	0.0868	0.6154	0.6598	3.0500e-003	0.2061	2.4200e-003	0.2085	0.0555	2.2800e-003	0.0578		314.0803	314.0803	0.0148		314.4499

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0165	0.5410	0.1437	1.4700e-003	0.0384	1.0300e-003	0.0394	0.0111	9.9000e-004	0.0120		157.3165	157.3165	0.0102		157.5720
Worker	0.0651	0.0406	0.4687	1.5000e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		149.7805	149.7805	3.7600e-003		149.8745
Total	0.0816	0.5816	0.6124	2.9700e-003	0.2061	2.2300e-003	0.2083	0.0555	2.0900e-003	0.0576		307.0970	307.0970	0.0140		307.4464

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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0165	0.5410	0.1437	1.4700e-003	0.0384	1.0300e-003	0.0394	0.0111	9.9000e-004	0.0120		157.3165	157.3165	0.0102		157.5720
Worker	0.0651	0.0406	0.4687	1.5000e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		149.7805	149.7805	3.7600e-003		149.8745
Total	0.0816	0.5816	0.6124	2.9700e-003	0.2061	2.2300e-003	0.2083	0.0555	2.0900e-003	0.0576		307.0970	307.0970	0.0140		307.4464

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0123	0.4080	0.1271	1.4300e-003	0.0384	4.8000e-004	0.0389	0.0111	4.6000e-004	0.0115		152.6170	152.6170	8.8500e-003		152.8381
Worker	0.0614	0.0367	0.4320	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		144.1945	144.1945	3.3900e-003		144.2792
Total	0.0737	0.4448	0.5591	2.8800e-003	0.2061	1.6500e-003	0.2077	0.0555	1.5400e-003	0.0571		296.8115	296.8115	0.0122		297.1173

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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0123	0.4080	0.1271	1.4300e-003	0.0384	4.8000e-004	0.0389	0.0111	4.6000e-004	0.0115		152.6170	152.6170	8.8500e-003		152.8381
Worker	0.0614	0.0367	0.4320	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		144.1945	144.1945	3.3900e-003		144.2792
Total	0.0737	0.4448	0.5591	2.8800e-003	0.2061	1.6500e-003	0.2077	0.0555	1.5400e-003	0.0571		296.8115	296.8115	0.0122		297.1173

3.5 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0687					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	2.2603	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

3.5 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	0.0123	7.3400e-003	0.0864	2.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.2000e-004	9.1100e-003		28.8389	28.8389	6.8000e-004		28.8558
Total	0.0123	7.3400e-003	0.0864	2.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.2000e-004	9.1100e-003		28.8389	28.8389	6.8000e-004		28.8558

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0687					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	2.2603	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

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

3.5 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	0.0123	7.3400e-003	0.0864	2.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.2000e-004	9.1100e-003		28.8389	28.8389	6.8000e-004		28.8558
Total	0.0123	7.3400e-003	0.0864	2.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.2000e-004	9.1100e-003		28.8389	28.8389	6.8000e-004		28.8558

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

SMC Art Complex Replacement - Operational Emissions Only - South Coast 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	4.0717	18.9901	51.7945	0.2048	18.2479	0.1484	18.3963	4.8822	0.1380	5.0202		20,881.48 95	20,881.48 95	0.9741		20,905.84 19
Unmitigated	4.0717	18.9901	51.7945	0.2048	18.2479	0.1484	18.3963	4.8822	0.1380	5.0202		20,881.48 95	20,881.48 95	0.9741		20,905.84 19

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Junior College (2Yr)	2,841.30	970.20	92.40	6,588,307	6,588,307
Parking Lot	0.00	0.00	0.00		
Total	2,841.30	970.20	92.40	6,588,307	6,588,307

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Junior College (2Yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Junior College (2Yr)	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Parking Lot	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0134	0.1221	0.1026	7.3000e-004		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003		146.5725	146.5725	2.8100e-003	2.6900e-003	147.4435
NaturalGas Unmitigated	0.0157	0.1431	0.1202	8.6000e-004		0.0109	0.0109		0.0109	0.0109		171.7621	171.7621	3.2900e-003	3.1500e-003	172.7828

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

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					
General Office Building	48.2568	5.2000e-004	4.7300e-003	3.9700e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004		5.6773	5.6773	1.1000e-004	1.0000e-004	5.7110
Junior College (2Yr)	1411.72	0.0152	0.1384	0.1163	8.3000e-004		0.0105	0.0105		0.0105	0.0105		166.0849	166.0849	3.1800e-003	3.0400e-003	167.0718
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0157	0.1431	0.1202	8.6000e-004		0.0109	0.0109		0.0109	0.0109		171.7621	171.7621	3.2900e-003	3.1400e-003	172.7828

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.0412894	4.5000e-004	4.0500e-003	3.4000e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8576	4.8576	9.0000e-005	9.0000e-005	4.8865
Junior College (2Yr)	1.20458	0.0130	0.1181	0.0992	7.1000e-004		8.9800e-003	8.9800e-003		8.9800e-003	8.9800e-003		141.7149	141.7149	2.7200e-003	2.6000e-003	142.5570
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0134	0.1222	0.1026	7.3000e-004		9.2900e-003	9.2900e-003		9.2900e-003	9.2900e-003		146.5725	146.5725	2.8100e-003	2.6900e-003	147.4435

6.0 Area Detail

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Winter

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Unmitigated	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0538					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0222	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Total	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484

SMC Art Complex Replacement - Operational Emissions Only - South Coast 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	0.0538					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0222	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Total	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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SMC Art Complex Replacement - Operational Emissions Only - South Coast 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
Emergency Generator	1	0.5	12	1000	0.73	Diesel

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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10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	0.8204	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	0.8204	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283

11.0 Vegetation

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Summer

SMC Art Complex Replacement - Operational Emissions Only
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	2,310.00	Student	1.65	19,028.00	0
General Office Building	1.69	1000sqft	0.00	1,692.00	0
Parking Lot	40.00	Space	0.00	16,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Summer

Project Characteristics -

Land Use - Proposed 20,720 sf Art Complex Replacement building with 19,028 sf classroom/lab space and 1,692 office space. Enrollment based on Fall 2019 enrollment.

Construction Phase - IGNORE CONSTRUCTION EMISSIONS FOR OPERATIONAL EMISSIONS SCENARIO.

Vehicle Trips - Mobile trips based on Transportation Assessment.

Stationary Sources - Emergency Generators and Fire Pumps -

Sequestration -

Energy Mitigation - 15 percent reduction above Title 24 and solar requirement of 2 watts/building sf

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	95.00
tblConstructionPhase	NumDays	200.00	347.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	4.00	66.00
tblConstructionPhase	PhaseEndDate	6/27/2022	8/11/2023
tblConstructionPhase	PhaseEndDate	5/30/2022	3/30/2023
tblConstructionPhase	PhaseEndDate	8/13/2021	8/31/2021
tblConstructionPhase	PhaseEndDate	8/23/2021	12/1/2021
tblConstructionPhase	PhaseStartDate	6/14/2022	4/1/2023
tblConstructionPhase	PhaseStartDate	8/24/2021	12/1/2021
tblConstructionPhase	PhaseStartDate	7/19/2021	8/1/2021
tblConstructionPhase	PhaseStartDate	8/18/2021	9/1/2021
tblGrading	AcresOfGrading	24.75	1.50
tblLandUse	LandUseSquareFeet	100,836.67	19,028.00
tblLandUse	LotAcreage	2.31	1.65
tblLandUse	LotAcreage	0.04	0.00

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Summer

tblLandUse	LotAcreage	0.36	0.00
tblSequestration	NumberOfNewTrees	0.00	19.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,000.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.00

2.0 Emissions Summary

SMC Art Complex Replacement - Operational Emissions Only - South Coast 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	3.2147	28.6020	20.2331	0.0402	4.8362	1.3253	6.1615	2.5645	1.2505	3.8150	0.0000	3,784.4507	3,784.4507	0.8155	0.0000	3,804.8380
2022	1.7237	13.0834	13.3773	0.0252	0.2061	0.5911	0.7971	0.0555	0.5709	0.6264	0.0000	2,323.7369	2,323.7369	0.3622	0.0000	2,332.7910
2023	2.2715	12.1546	13.2092	0.0251	0.2061	0.5161	0.7222	0.0555	0.4983	0.5539	0.0000	2,313.0978	2,313.0978	0.3519	0.0000	2,321.8945
Maximum	3.2147	28.6020	20.2331	0.0402	4.8362	1.3253	6.1615	2.5645	1.2505	3.8150	0.0000	3,784.4507	3,784.4507	0.8155	0.0000	3,804.8380

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	3.2147	28.6020	20.2331	0.0402	4.8362	1.3253	6.1615	2.5645	1.2505	3.8150	0.0000	3,784.4507	3,784.4507	0.8155	0.0000	3,804.8380
2022	1.7237	13.0834	13.3773	0.0252	0.2061	0.5911	0.7971	0.0555	0.5709	0.6264	0.0000	2,323.7369	2,323.7369	0.3622	0.0000	2,332.7910
2023	2.2715	12.1546	13.2092	0.0251	0.2061	0.5161	0.7222	0.0555	0.4983	0.5539	0.0000	2,313.0978	2,313.0978	0.3519	0.0000	2,321.8945
Maximum	3.2147	28.6020	20.2331	0.0402	4.8362	1.3253	6.1615	2.5645	1.2505	3.8150	0.0000	3,784.4507	3,784.4507	0.8155	0.0000	3,804.8380

SMC Art Complex Replacement - Operational Emissions Only - South Coast 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	0.00	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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Energy	0.0157	0.1431	0.1202	8.6000e-004		0.0109	0.0109		0.0109	0.0109		171.7621	171.7621	3.2900e-003	3.1500e-003	172.7828
Mobile	4.3040	18.6619	55.3424	0.2164	18.2479	0.1477	18.3955	4.8822	0.1373	5.0195		22,047.6238	22,047.6238	0.9743		22,071.9808
Stationary	0.8204	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	5.6322	22.4766	57.7949	0.2212	18.2479	0.2801	18.5279	4.8822	0.2697	5.1520		22,639.6576	22,639.6576	1.0378	3.1500e-003	22,666.5403

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Summer

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	lb/day										lb/day					
Area	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Energy	0.0134	0.1221	0.1026	7.3000e-004		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003		146.5725	146.5725	2.8100e-003	2.6900e-003	147.4435
Mobile	4.3040	18.6619	55.3424	0.2164	18.2479	0.1477	18.3955	4.8822	0.1373	5.0195		22,047.6238	22,047.6238	0.9743		22,071.9808
Stationary	0.8204	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	5.6299	22.4556	57.7772	0.2211	18.2479	0.2785	18.5263	4.8822	0.2681	5.1504		22,614.4680	22,614.4680	1.0373	2.6900e-003	22,641.2010

	ROG	NOx	CO	SO2	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	0.04	0.09	0.03	0.06	0.00	0.57	0.01	0.00	0.59	0.03	0.00	0.11	0.11	0.05	14.60	0.11

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	8/1/2021	8/31/2021	5	22	
2	Grading	Grading	9/1/2021	12/1/2021	5	66	
3	Building Construction	Building Construction	12/1/2021	3/30/2023	5	347	
4	Architectural Coating	Architectural Coating	4/1/2023	8/11/2023	5	95	

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Summer

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 1.5****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 31,080; Non-Residential Outdoor: 10,360; Striped Parking Area: 960 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

SMC Art Complex Replacement - Operational Emissions Only - South Coast 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	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	15.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	14.70	6.90	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					
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.7171	2,322.7171	0.5940		2,337.5658
Total	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.7171	2,322.7171	0.5940		2,337.5658

SMC Art Complex Replacement - Operational Emissions Only - South Coast 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	0.0000	0.0000	0.0000	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	0.0549	0.0356	0.4897	1.4400e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		143.9624	143.9624	3.8700e-003		144.0592
Total	0.0549	0.0356	0.4897	1.4400e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		143.9624	143.9624	3.8700e-003		144.0592

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
Total	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658

SMC Art Complex Replacement - Operational Emissions Only - South Coast 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	0.0000	0.0000	0.0000	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	0.0549	0.0356	0.4897	1.4400e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		143.9624	143.9624	3.8700e-003		144.0592
Total	0.0549	0.0356	0.4897	1.4400e-003	0.1453	1.0700e-003	0.1464	0.0385	9.9000e-004	0.0395		143.9624	143.9624	3.8700e-003		144.0592

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5407	0.0000	4.5407	2.4853	0.0000	2.4853			0.0000			0.0000
Off-Road	1.2884	14.3307	6.3314	0.0141		0.6379	0.6379		0.5869	0.5869		1,365.0648	1,365.0648	0.4415		1,376.1020
Total	1.2884	14.3307	6.3314	0.0141	4.5407	0.6379	5.1786	2.4853	0.5869	3.0722		1,365.0648	1,365.0648	0.4415		1,376.1020

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Summer

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0338	0.0219	0.3014	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5923	88.5923	2.3800e-003		88.6518
Total	0.0338	0.0219	0.3014	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5923	88.5923	2.3800e-003		88.6518

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					4.5407	0.0000	4.5407	2.4853	0.0000	2.4853			0.0000			0.0000
Off-Road	1.2884	14.3307	6.3314	0.0141		0.6379	0.6379		0.5869	0.5869	0.0000	1,365.0648	1,365.0648	0.4415		1,376.1020
Total	1.2884	14.3307	6.3314	0.0141	4.5407	0.6379	5.1786	2.4853	0.5869	3.0722	0.0000	1,365.0648	1,365.0648	0.4415		1,376.1020

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Summer

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0338	0.0219	0.3014	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5923	88.5923	2.3800e-003		88.6518
Total	0.0338	0.0219	0.3014	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5923	88.5923	2.3800e-003		88.6518

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Summer

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0167	0.5723	0.1358	1.5300e-003	0.0384	1.1500e-003	0.0396	0.0111	1.1000e-003	0.0122		163.4631	163.4631	9.8900e-003		163.7103
Worker	0.0633	0.0411	0.5651	1.6700e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		166.1105	166.1105	4.4700e-003		166.2222
Total	0.0800	0.6133	0.7009	3.2000e-003	0.2061	2.3800e-003	0.2085	0.0555	2.2400e-003	0.0578		329.5736	329.5736	0.0144		329.9325

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	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Summer

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0167	0.5723	0.1358	1.5300e-003	0.0384	1.1500e-003	0.0396	0.0111	1.1000e-003	0.0122		163.4631	163.4631	9.8900e-003		163.7103
Worker	0.0633	0.0411	0.5651	1.6700e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		166.1105	166.1105	4.4700e-003		166.2222
Total	0.0800	0.6133	0.7009	3.2000e-003	0.2061	2.3800e-003	0.2085	0.0555	2.2400e-003	0.0578		329.5736	329.5736	0.0144		329.9325

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Summer

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0157	0.5432	0.1283	1.5200e-003	0.0384	1.0000e-003	0.0394	0.0111	9.5000e-004	0.0120		162.0355	162.0355	9.5200e-003		162.2735
Worker	0.0594	0.0371	0.5225	1.6100e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		160.1586	160.1586	4.0400e-003		160.2595
Total	0.0751	0.5803	0.6509	3.1300e-003	0.2061	2.2000e-003	0.2083	0.0555	2.0500e-003	0.0576		322.1941	322.1941	0.0136		322.5330

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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Summer

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0157	0.5432	0.1283	1.5200e-003	0.0384	1.0000e-003	0.0394	0.0111	9.5000e-004	0.0120		162.0355	162.0355	9.5200e-003		162.2735
Worker	0.0594	0.0371	0.5225	1.6100e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		160.1586	160.1586	4.0400e-003		160.2595
Total	0.0751	0.5803	0.6509	3.1300e-003	0.2061	2.2000e-003	0.2083	0.0555	2.0500e-003	0.0576		322.1941	322.1941	0.0136		322.5330

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Summer

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0117	0.4107	0.1156	1.4700e-003	0.0384	4.6000e-004	0.0389	0.0111	4.4000e-004	0.0115		157.1206	157.1206	8.3000e-003		157.3282
Worker	0.0558	0.0336	0.4825	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		154.1895	154.1895	3.6400e-003		154.2806
Total	0.0675	0.4442	0.5982	3.0200e-003	0.2061	1.6300e-003	0.2077	0.0555	1.5200e-003	0.0570		311.3102	311.3102	0.0119		311.6087

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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Summer

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0117	0.4107	0.1156	1.4700e-003	0.0384	4.6000e-004	0.0389	0.0111	4.4000e-004	0.0115		157.1206	157.1206	8.3000e-003		157.3282
Worker	0.0558	0.0336	0.4825	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		154.1895	154.1895	3.6400e-003		154.2806
Total	0.0675	0.4442	0.5982	3.0200e-003	0.2061	1.6300e-003	0.2077	0.0555	1.5200e-003	0.0570		311.3102	311.3102	0.0119		311.6087

3.5 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0687					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	2.2603	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Summer

3.5 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	0.0112	6.7100e-003	0.0965	3.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.2000e-004	9.1100e-003		30.8379	30.8379	7.3000e-004		30.8561
Total	0.0112	6.7100e-003	0.0965	3.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.2000e-004	9.1100e-003		30.8379	30.8379	7.3000e-004		30.8561

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0687					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	2.2603	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

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Summer

3.5 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	0.0112	6.7100e-003	0.0965	3.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.2000e-004	9.1100e-003		30.8379	30.8379	7.3000e-004		30.8561
Total	0.0112	6.7100e-003	0.0965	3.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.2000e-004	9.1100e-003		30.8379	30.8379	7.3000e-004		30.8561

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

SMC Art Complex Replacement - Operational Emissions Only - South Coast 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	4.3040	18.6619	55.3424	0.2164	18.2479	0.1477	18.3955	4.8822	0.1373	5.0195		22,047.6238	22,047.6238	0.9743		22,071.9808
Unmitigated	4.3040	18.6619	55.3424	0.2164	18.2479	0.1477	18.3955	4.8822	0.1373	5.0195		22,047.6238	22,047.6238	0.9743		22,071.9808

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Junior College (2Yr)	2,841.30	970.20	92.40	6,588,307	6,588,307
Parking Lot	0.00	0.00	0.00		
Total	2,841.30	970.20	92.40	6,588,307	6,588,307

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Junior College (2Yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

SMC Art Complex Replacement - Operational Emissions Only - South Coast AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Junior College (2Yr)	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Parking Lot	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0134	0.1221	0.1026	7.3000e-004		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003		146.5725	146.5725	2.8100e-003	2.6900e-003	147.4435
NaturalGas Unmitigated	0.0157	0.1431	0.1202	8.6000e-004		0.0109	0.0109		0.0109	0.0109		171.7621	171.7621	3.2900e-003	3.1500e-003	172.7828

SMC Art Complex Replacement - Operational Emissions Only - South Coast 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					
General Office Building	48.2568	5.2000e-004	4.7300e-003	3.9700e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004		5.6773	5.6773	1.1000e-004	1.0000e-004	5.7110
Junior College (2Yr)	1411.72	0.0152	0.1384	0.1163	8.3000e-004		0.0105	0.0105		0.0105	0.0105		166.0849	166.0849	3.1800e-003	3.0400e-003	167.0718
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0157	0.1431	0.1202	8.6000e-004		0.0109	0.0109		0.0109	0.0109		171.7621	171.7621	3.2900e-003	3.1400e-003	172.7828

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.0412894	4.5000e-004	4.0500e-003	3.4000e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8576	4.8576	9.0000e-005	9.0000e-005	4.8865
Junior College (2Yr)	1.20458	0.0130	0.1181	0.0992	7.1000e-004		8.9800e-003	8.9800e-003		8.9800e-003	8.9800e-003		141.7149	141.7149	2.7200e-003	2.6000e-003	142.5570
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0134	0.1222	0.1026	7.3000e-004		9.2900e-003	9.2900e-003		9.2900e-003	9.2900e-003		146.5725	146.5725	2.8100e-003	2.6900e-003	147.4435

6.0 Area Detail

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6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Unmitigated	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0538					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0222	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Total	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484

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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	lb/day										lb/day					
Architectural Coating	0.0538					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0222	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484
Total	0.4920	2.1900e-003	0.2401	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004		0.5147	0.5147	1.3500e-003		0.5484

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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SMC Art Complex Replacement - Operational Emissions Only - South Coast 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
Emergency Generator	1	0.5	12	1000	0.73	Diesel

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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10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	0.8204	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	0.8204	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283

11.0 Vegetation