

APPENDIX C: AIR QUALITY MODELING WORKSHEETS

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Winter

2800 Casitas Avenue - Existing Conditions
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	117.00	1000sqft	5.70	117,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2017
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 117,000 sf of existing light industrial facility with associated surface parking on 5.7-acre lot.

Construction Phase - IGNORE CONSTRUCTION EMISSIONS FOR EXISTING CONDITIONS SCENARIO.

Vehicle Trips - Existing trip rates adjusted based on Project Traffic Study.

Energy Use - Historical Title 24 assumed for Existing Conditions scenario.

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	44.00
tblConstructionPhase	PhaseEndDate	8/22/2018	9/29/2017
tblConstructionPhase	PhaseEndDate	6/27/2018	8/1/2017
tblConstructionPhase	PhaseStartDate	7/26/2018	8/1/2017
tblConstructionPhase	PhaseStartDate	8/10/2017	6/1/2017
tblEnergyUse	LightingElect	3.85	3.10
tblEnergyUse	T24E	2.94	2.25
tblEnergyUse	T24NG	15.35	13.65
tblLandUse	LotAcreage	2.69	5.70
tblVehicleTrips	ST_TR	1.32	0.71
tblVehicleTrips	SU_TR	0.68	0.37
tblVehicleTrips	WD_TR	6.97	3.76

2.0 Emissions Summary

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.6149	1.2000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0256	0.0256	7.0000e-005		0.0274
Energy	0.0626	0.5688	0.4778	3.4100e-003		0.0432	0.0432		0.0432	0.0432		682.5786	682.5786	0.0131	0.0125	686.6348
Mobile	1.2984	6.8538	18.7835	0.0535	4.1432	0.0739	4.2171	1.1089	0.0698	1.1788		5,423.8245	5,423.8245	0.3176		5,431.7643
Total	3.9759	7.4228	19.2734	0.0569	4.1432	0.1172	4.2604	1.1089	0.1131	1.2220		6,106.4287	6,106.4287	0.3307	0.0125	6,118.4265

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	2.6149	1.2000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0256	0.0256	7.0000e-005		0.0274
Energy	0.0626	0.5688	0.4778	3.4100e-003		0.0432	0.0432		0.0432	0.0432		682.5786	682.5786	0.0131	0.0125	686.6348
Mobile	1.2984	6.8538	18.7835	0.0535	4.1432	0.0739	4.2171	1.1089	0.0698	1.1788		5,423.8245	5,423.8245	0.3176		5,431.7643
Total	3.9759	7.4228	19.2734	0.0569	4.1432	0.1172	4.2604	1.1089	0.1131	1.2220		6,106.4287	6,106.4287	0.3307	0.0125	6,118.4265

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

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	IGNORE Architectural Coating	Architectural Coating	8/1/2017	9/29/2017	5	44	
2	IGNORE Building Construction	Building Construction	6/1/2017	8/1/2017	5	44	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 175,500; Non-Residential Outdoor: 58,500; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
IGNORE Architectural Coating	Air Compressors	1	6.00	78	0.48
IGNORE Building Construction	Cranes	1	7.00	231	0.29
IGNORE Building Construction	Forklifts	3	8.00	89	0.20
IGNORE Building Construction	Generator Sets	1	8.00	84	0.74
IGNORE Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
IGNORE Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

2800 Casitas Avenue - Existing Conditions - 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
IGNORE Building Construction	9	49.00	19.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
IGNORE Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 IGNORE Architectural Coating - 2017

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	24.6498					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909
Total	24.9821	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Winter

3.2 IGNORE Architectural Coating - 2017

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	0.0658	0.0486	0.5183	1.1800e-003	0.1118	9.2000e-004	0.1127	0.0296	8.5000e-004	0.0305		117.3648	117.3648	4.4400e-003		117.4757
Total	0.0658	0.0486	0.5183	1.1800e-003	0.1118	9.2000e-004	0.1127	0.0296	8.5000e-004	0.0305		117.3648	117.3648	4.4400e-003		117.4757

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	24.6498					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.1909
Total	24.9821	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.1909

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3.2 IGNORE Architectural Coating - 2017

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	0.0658	0.0486	0.5183	1.1800e-003	0.1118	9.2000e-004	0.1127	0.0296	8.5000e-004	0.0305		117.3648	117.3648	4.4400e-003		117.4757
Total	0.0658	0.0486	0.5183	1.1800e-003	0.1118	9.2000e-004	0.1127	0.0296	8.5000e-004	0.0305		117.3648	117.3648	4.4400e-003		117.4757

3.3 IGNORE Building Construction - 2017

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	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Winter

3.3 IGNORE Building Construction - 2017

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	0.0958	2.4600	0.7047	4.8600e-003	0.1216	0.0215	0.1431	0.0350	0.0206	0.0556		516.2885	516.2885	0.0408		517.3088
Worker	0.3223	0.2381	2.5398	5.7800e-003	0.5477	4.5200e-003	0.5522	0.1453	4.1700e-003	0.1494		575.0874	575.0874	0.0218		575.6310
Total	0.4181	2.6981	3.2445	0.0106	0.6693	0.0260	0.6954	0.1803	0.0248	0.2050		1,091.3758	1,091.3758	0.0626		1,092.9398

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	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Winter

3.3 IGNORE Building Construction - 2017

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	0.0958	2.4600	0.7047	4.8600e-003	0.1216	0.0215	0.1431	0.0350	0.0206	0.0556		516.2885	516.2885	0.0408		517.3088
Worker	0.3223	0.2381	2.5398	5.7800e-003	0.5477	4.5200e-003	0.5522	0.1453	4.1700e-003	0.1494		575.0874	575.0874	0.0218		575.6310
Total	0.4181	2.6981	3.2445	0.0106	0.6693	0.0260	0.6954	0.1803	0.0248	0.2050		1,091.3758	1,091.3758	0.0626		1,092.9398

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

2800 Casitas Avenue - Existing Conditions - 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	1.2984	6.8538	18.7835	0.0535	4.1432	0.0739	4.2171	1.1089	0.0698	1.1788		5,423.8245	5,423.8245	0.3176		5,431.7643
Unmitigated	1.2984	6.8538	18.7835	0.0535	4.1432	0.0739	4.2171	1.1089	0.0698	1.1788		5,423.8245	5,423.8245	0.3176		5,431.7643

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	439.92	83.07	43.29	1,471,428	1,471,428
Total	439.92	83.07	43.29	1,471,428	1,471,428

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 Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.542123	0.045435	0.198009	0.129481	0.019131	0.005886	0.019249	0.030178	0.001920	0.002234	0.004581	0.000701	0.001073

5.0 Energy Detail

Historical Energy Use: Y

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Winter

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0626	0.5688	0.4778	3.4100e-003		0.0432	0.0432		0.0432	0.0432		682.5786	682.5786	0.0131	0.0125	686.6348
NaturalGas Unmitigated	0.0626	0.5688	0.4778	3.4100e-003		0.0432	0.0432		0.0432	0.0432		682.5786	682.5786	0.0131	0.0125	686.6348

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 Light Industry	5801.92	0.0626	0.5688	0.4778	3.4100e-003		0.0432	0.0432		0.0432	0.0432		682.5786	682.5786	0.0131	0.0125	686.6348
Total		0.0626	0.5688	0.4778	3.4100e-003		0.0432	0.0432		0.0432	0.0432		682.5786	682.5786	0.0131	0.0125	686.6348

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	5.80192	0.0626	0.5688	0.4778	3.4100e-003		0.0432	0.0432		0.0432	0.0432		682.5786	682.5786	0.0131	0.0125	686.6348
Total		0.0626	0.5688	0.4778	3.4100e-003		0.0432	0.0432		0.0432	0.0432		682.5786	682.5786	0.0131	0.0125	686.6348

6.0 Area Detail

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	2.6149	1.2000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0256	0.0256	7.0000e-005		0.0274
Unmitigated	2.6149	1.2000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0256	0.0256	7.0000e-005		0.0274

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Winter

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	0.2972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3166					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1700e-003	1.2000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0256	0.0256	7.0000e-005		0.0274
Total	2.6149	1.2000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0256	0.0256	7.0000e-005		0.0274

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	0.2972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3166					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1700e-003	1.2000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0256	0.0256	7.0000e-005		0.0274
Total	2.6149	1.2000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0256	0.0256	7.0000e-005		0.0274

7.0 Water Detail

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Winter

7.1 Mitigation Measures Water**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Summer

2800 Casitas Avenue - Existing Conditions
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	117.00	1000sqft	5.70	117,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2017
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 117,000 sf of existing light industrial facility with associated surface parking on 5.7-acre lot.

Construction Phase - IGNORE CONSTRUCTION EMISSIONS FOR EXISTING CONDITIONS SCENARIO.

Vehicle Trips - Existing trip rates adjusted based on Project Traffic Study.

Energy Use - Historical Title 24 assumed for Existing Conditions scenario.

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tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	44.00
tblConstructionPhase	PhaseEndDate	8/22/2018	9/29/2017
tblConstructionPhase	PhaseEndDate	6/27/2018	8/1/2017
tblConstructionPhase	PhaseStartDate	7/26/2018	8/1/2017
tblConstructionPhase	PhaseStartDate	8/10/2017	6/1/2017
tblEnergyUse	LightingElect	3.85	3.10
tblEnergyUse	T24E	2.94	2.25
tblEnergyUse	T24NG	15.35	13.65
tblLandUse	LotAcreage	2.69	5.70
tblVehicleTrips	ST_TR	1.32	0.71
tblVehicleTrips	SU_TR	0.68	0.37
tblVehicleTrips	WD_TR	6.97	3.76

2.0 Emissions Summary

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.6149	1.2000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0256	0.0256	7.0000e-005		0.0274
Energy	0.0626	0.5688	0.4778	3.4100e-003		0.0432	0.0432		0.0432	0.0432		682.5786	682.5786	0.0131	0.0125	686.6348
Mobile	1.3483	6.6276	20.1812	0.0566	4.1432	0.0735	4.2167	1.1089	0.0694	1.1784		5,728.9571	5,728.9571	0.3218		5,737.0025
Total	4.0258	7.1966	20.6711	0.0600	4.1432	0.1168	4.2600	1.1089	0.1127	1.2216		6,411.5613	6,411.5613	0.3350	0.0125	6,423.6646

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	2.6149	1.2000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0256	0.0256	7.0000e-005		0.0274
Energy	0.0626	0.5688	0.4778	3.4100e-003		0.0432	0.0432		0.0432	0.0432		682.5786	682.5786	0.0131	0.0125	686.6348
Mobile	1.3483	6.6276	20.1812	0.0566	4.1432	0.0735	4.2167	1.1089	0.0694	1.1784		5,728.9571	5,728.9571	0.3218		5,737.0025
Total	4.0258	7.1966	20.6711	0.0600	4.1432	0.1168	4.2600	1.1089	0.1127	1.2216		6,411.5613	6,411.5613	0.3350	0.0125	6,423.6646

2800 Casitas Avenue - Existing Conditions - 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

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	IGNORE Architectural Coating	Architectural Coating	8/1/2017	9/29/2017	5	44	
2	IGNORE Building Construction	Building Construction	6/1/2017	8/1/2017	5	44	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 175,500; Non-Residential Outdoor: 58,500; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
IGNORE Architectural Coating	Air Compressors	1	6.00	78	0.48
IGNORE Building Construction	Cranes	1	7.00	231	0.29
IGNORE Building Construction	Forklifts	3	8.00	89	0.20
IGNORE Building Construction	Generator Sets	1	8.00	84	0.74
IGNORE Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
IGNORE Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

2800 Casitas Avenue - Existing Conditions - 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
IGNORE Building Construction	9	49.00	19.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
IGNORE Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 IGNORE Architectural Coating - 2017

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	24.6498					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909
Total	24.9821	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Summer

3.2 IGNORE Architectural Coating - 2017

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	0.0605	0.0443	0.5699	1.2600e-003	0.1118	9.2000e-004	0.1127	0.0296	8.5000e-004	0.0305		125.4351	125.4351	4.7300e-003		125.5533
Total	0.0605	0.0443	0.5699	1.2600e-003	0.1118	9.2000e-004	0.1127	0.0296	8.5000e-004	0.0305		125.4351	125.4351	4.7300e-003		125.5533

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	24.6498					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.1909
Total	24.9821	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.1909

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Summer

3.2 IGNORE Architectural Coating - 2017

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	0.0605	0.0443	0.5699	1.2600e-003	0.1118	9.2000e-004	0.1127	0.0296	8.5000e-004	0.0305		125.4351	125.4351	4.7300e-003		125.5533
Total	0.0605	0.0443	0.5699	1.2600e-003	0.1118	9.2000e-004	0.1127	0.0296	8.5000e-004	0.0305		125.4351	125.4351	4.7300e-003		125.5533

3.3 IGNORE Building Construction - 2017

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	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Summer

3.3 IGNORE Building Construction - 2017

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	0.0920	2.4524	0.6375	4.9900e-003	0.1216	0.0212	0.1428	0.0350	0.0203	0.0553		530.9472	530.9472	0.0380		531.8980
Worker	0.2967	0.2172	2.7927	6.1800e-003	0.5477	4.5200e-003	0.5522	0.1453	4.1700e-003	0.1494		614.6322	614.6322	0.0232		615.2110
Total	0.3886	2.6697	3.4302	0.0112	0.6693	0.0257	0.6950	0.1803	0.0245	0.2047		1,145.5794	1,145.5794	0.0612		1,147.1090

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	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Summer

3.3 IGNORE Building Construction - 2017**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	0.0920	2.4524	0.6375	4.9900e-003	0.1216	0.0212	0.1428	0.0350	0.0203	0.0553		530.9472	530.9472	0.0380		531.8980
Worker	0.2967	0.2172	2.7927	6.1800e-003	0.5477	4.5200e-003	0.5522	0.1453	4.1700e-003	0.1494		614.6322	614.6322	0.0232		615.2110
Total	0.3886	2.6697	3.4302	0.0112	0.6693	0.0257	0.6950	0.1803	0.0245	0.2047		1,145.5794	1,145.5794	0.0612		1,147.1090

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

2800 Casitas Avenue - Existing Conditions - 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	1.3483	6.6276	20.1812	0.0566	4.1432	0.0735	4.2167	1.1089	0.0694	1.1784		5,728.957 1	5,728.957 1	0.3218		5,737.002 5
Unmitigated	1.3483	6.6276	20.1812	0.0566	4.1432	0.0735	4.2167	1.1089	0.0694	1.1784		5,728.957 1	5,728.957 1	0.3218		5,737.002 5

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	439.92	83.07	43.29	1,471,428	1,471,428
Total	439.92	83.07	43.29	1,471,428	1,471,428

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 Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.542123	0.045435	0.198009	0.129481	0.019131	0.005886	0.019249	0.030178	0.001920	0.002234	0.004581	0.000701	0.001073

5.0 Energy Detail

Historical Energy Use: Y

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Summer

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0626	0.5688	0.4778	3.4100e-003		0.0432	0.0432		0.0432	0.0432		682.5786	682.5786	0.0131	0.0125	686.6348
NaturalGas Unmitigated	0.0626	0.5688	0.4778	3.4100e-003		0.0432	0.0432		0.0432	0.0432		682.5786	682.5786	0.0131	0.0125	686.6348

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 Light Industry	5801.92	0.0626	0.5688	0.4778	3.4100e-003		0.0432	0.0432		0.0432	0.0432		682.5786	682.5786	0.0131	0.0125	686.6348
Total		0.0626	0.5688	0.4778	3.4100e-003		0.0432	0.0432		0.0432	0.0432		682.5786	682.5786	0.0131	0.0125	686.6348

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	5.80192	0.0626	0.5688	0.4778	3.4100e-003		0.0432	0.0432		0.0432	0.0432		682.5786	682.5786	0.0131	0.0125	686.6348
Total		0.0626	0.5688	0.4778	3.4100e-003		0.0432	0.0432		0.0432	0.0432		682.5786	682.5786	0.0131	0.0125	686.6348

6.0 Area Detail

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	2.6149	1.2000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0256	0.0256	7.0000e-005		0.0274
Unmitigated	2.6149	1.2000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0256	0.0256	7.0000e-005		0.0274

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Summer

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	0.2972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3166					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1700e-003	1.2000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0256	0.0256	7.0000e-005		0.0274
Total	2.6149	1.2000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0256	0.0256	7.0000e-005		0.0274

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	0.2972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3166					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1700e-003	1.2000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0256	0.0256	7.0000e-005		0.0274
Total	2.6149	1.2000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0256	0.0256	7.0000e-005		0.0274

7.0 Water Detail

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Summer

7.1 Mitigation Measures Water**8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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11.0 Vegetation

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

2800 Casitas Avenue Proposed Project
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	19.00	1000sqft	0.00	19,000.00	0
Unenclosed Parking with Elevator	720.00	Space	0.00	288,000.00	0
City Park	0.97	Acre	0.00	42,000.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.00	3,000.00	0
Apartments Mid Rise	419.00	Dwelling Unit	5.70	423,872.00	1370

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

Project Characteristics -

Land Use - Project Data per September 29, 2016 site plans. Land use code for park assumed for urban farm due to similarity in land uses.

Construction Phase - Approximate 30-month construction timeline.

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

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Haul trip length estimates 23 miles to Sunshine Canyon Landfill with 14 cy haul truck capacity.

Demolition - Demolish approx. 117,000 sf of existing building.

Grading - Approx. 3,000 cy asphalt export and 10,000 cy soil import and 10,000 cy soil export (20,000 cy total) on 5.7-acre lot.

Vehicle Trips - Trip rates adjusted based on Traffic Study and incorporates trip reductions (transit, internal)

Woodstoves - No woodstoves or fireplaces proposed.

Sequestration - 140 trees proposed on-site

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	88.00
tblConstructionPhase	NumDays	230.00	434.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	44.00

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

tblConstructionPhase	NumDays	10.00	22.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	356.15	0.00
tblFireplaces	NumberNoFireplace	41.90	0.00
tblFireplaces	NumberWood	20.95	0.00
tblGrading	AcresOfGrading	22.00	5.70
tblGrading	AcresOfGrading	0.00	5.70
tblGrading	MaterialExported	0.00	10,000.00
tblGrading	MaterialExported	0.00	3,000.00
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	42,253.20	42,000.00
tblLandUse	LandUseSquareFeet	419,000.00	423,872.00
tblLandUse	LotAcreage	0.44	0.00
tblLandUse	LotAcreage	6.48	0.00
tblLandUse	LotAcreage	0.97	0.00
tblLandUse	LotAcreage	0.07	0.00
tblLandUse	LotAcreage	11.03	5.70
tblLandUse	Population	1,198.00	1,370.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblSequestration	NumberOfNewTrees	0.00	140.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,000.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	4.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripNumber	1,978.00	2,857.00
tblVehicleTrips	ST_TR	6.39	6.07
tblVehicleTrips	ST_TR	22.75	80.40
tblVehicleTrips	ST_TR	2.46	2.22
tblVehicleTrips	ST_TR	158.37	31.97
tblVehicleTrips	SU_TR	5.86	5.57
tblVehicleTrips	SU_TR	16.74	80.40
tblVehicleTrips	SU_TR	1.05	0.95
tblVehicleTrips	SU_TR	131.84	26.62
tblVehicleTrips	WD_TR	6.65	6.32
tblVehicleTrips	WD_TR	1.89	80.40
tblVehicleTrips	WD_TR	11.03	9.95
tblVehicleTrips	WD_TR	127.15	25.67
tblWoodstoves	NumberCatalytic	20.95	0.00
tblWoodstoves	NumberNoncatalytic	20.95	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2800 Casitas Avenue Proposed Project - 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					
2020	5.8488	52.2940	46.2294	0.1174	18.8694	2.5281	21.3974	10.1029	2.3422	12.4451	0.0000	11,653.4275	11,653.4275	1.4850	0.0000	11,680.9866
2021	5.3262	36.7226	44.3150	0.1157	5.6604	1.4700	7.1304	1.5160	1.4079	2.9239	0.0000	11,478.2679	11,478.2679	1.0642	0.0000	11,504.8738
2022	35.0568	33.6788	42.7756	0.1138	5.6604	1.2607	6.9210	1.5160	1.2084	2.7243	0.0000	11,288.8571	11,288.8571	1.0364	0.0000	11,314.7676
Maximum	35.0568	52.2940	46.2294	0.1174	18.8694	2.5281	21.3974	10.1029	2.3422	12.4451	0.0000	11,653.4275	11,653.4275	1.4850	0.0000	11,680.9866

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					
2020	5.8488	52.2940	46.2294	0.1174	8.7818	2.5281	11.3099	4.6247	2.3422	6.9669	0.0000	11,653.4275	11,653.4275	1.4850	0.0000	11,680.9866
2021	5.3262	36.7226	44.3150	0.1157	5.6604	1.4700	7.1304	1.5160	1.4079	2.9239	0.0000	11,478.2679	11,478.2679	1.0642	0.0000	11,504.8738
2022	35.0568	33.6788	42.7756	0.1138	5.6604	1.2607	6.9210	1.5160	1.2084	2.7243	0.0000	11,288.8571	11,288.8571	1.0364	0.0000	11,314.7676
Maximum	35.0568	52.2940	46.2294	0.1174	8.7818	2.5281	11.3099	4.6247	2.3422	6.9669	0.0000	11,653.4275	11,653.4275	1.4850	0.0000	11,680.9866

2800 Casitas Avenue Proposed Project - 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	33.41	0.00	28.46	41.71	0.00	30.28	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	10.7856	0.3993	34.6516	1.8300e-003		0.1916	0.1916		0.1916	0.1916	0.0000	62.4060	62.4060	0.0603	0.0000	63.9130
Energy	0.1622	1.4005	0.6950	8.8500e-003		0.1121	0.1121		0.1121	0.1121		1,769.5173	1,769.5173	0.0339	0.0324	1,780.0327
Mobile	4.4883	21.1093	59.3213	0.2375	21.2913	0.1714	21.4627	5.6965	0.1594	5.8559		24,218.7343	24,218.7343	1.1149		24,246.6055
Stationary	3.2817	14.6775	8.3688	0.0158		0.4828	0.4828		0.4828	0.4828		1,679.0282	1,679.0282	0.2354		1,684.9133
Total	18.7178	37.5865	103.0367	0.2640	21.2913	0.9579	22.2492	5.6965	0.9459	6.6424	0.0000	27,729.6859	27,729.6859	1.4445	0.0324	27,775.4645

2800 Casitas Avenue Proposed Project - 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	10.7856	0.3993	34.6516	1.8300e-003		0.1916	0.1916		0.1916	0.1916	0.0000	62.4060	62.4060	0.0603	0.0000	63.9130
Energy	0.1622	1.4005	0.6950	8.8500e-003		0.1121	0.1121		0.1121	0.1121		1,769.5173	1,769.5173	0.0339	0.0324	1,780.0327
Mobile	4.4883	21.1093	59.3213	0.2375	21.2913	0.1714	21.4627	5.6965	0.1594	5.8559		24,218.7343	24,218.7343	1.1149		24,246.6055
Stationary	3.2817	14.6775	8.3688	0.0158		0.4828	0.4828		0.4828	0.4828		1,679.0282	1,679.0282	0.2354		1,684.9133
Total	18.7178	37.5865	103.0367	0.2640	21.2913	0.9579	22.2492	5.6965	0.9459	6.6424	0.0000	27,729.6859	27,729.6859	1.4445	0.0324	27,775.4645

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

3.0 Construction Detail

Construction Phase

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/30/2020	5	22	
2	Site Preparation	Site Preparation	7/1/2020	7/30/2020	5	22	
3	Grading	Grading	7/31/2020	9/30/2020	5	44	
4	Building Construction	Building Construction	10/1/2020	5/31/2022	5	434	
5	Paving	Paving	6/1/2022	8/1/2022	5	44	
6	Architectural Coating	Architectural Coating	8/2/2022	12/1/2022	5	88	

Acres of Grading (Site Preparation Phase): 5.7

Acres of Grading (Grading Phase): 5.7

Acres of Paving: 0

Residential Indoor: 858,341; Residential Outdoor: 286,114; Non-Residential Indoor: 33,000; Non-Residential Outdoor: 11,000; Striped Parking Area: 17,280 (Architectural Coating – sqft)

OffRoad Equipment

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Air Compressors	2	8.00	78	0.48
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Aerial Lifts	2	8.00	63	0.31
Architectural Coating	Air Compressors	6	6.00	78	0.48

Trips and VMT

2800 Casitas Avenue Proposed Project - 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	6	15.00	0.00	532.00	14.70	6.90	23.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	9	23.00	0.00	297.00	14.70	6.90	23.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	2,857.00	14.70	6.90	23.00	LD_Mix	HDT_Mix	HHDT
Building Construction	14	448.00	102.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	90.00	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 - 2020

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					5.2350	0.0000	5.2350	0.7926	0.0000	0.7926			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	5.2350	1.6587	6.8937	0.7926	1.5419	2.3345		3,747.7049	3,747.7049	1.0580		3,774.1536

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

3.2 Demolition - 2020

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	0.2103	7.3242	1.5648	0.0208	0.4859	0.0246	0.5104	0.1331	0.0235	0.1567		2,250.3153	2,250.3153	0.1556		2,254.2040
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	0.0740	0.0500	0.5521	1.6100e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		160.5547	160.5547	4.6000e-003		160.6699
Total	0.2843	7.3741	2.1169	0.0224	0.6535	0.0258	0.6794	0.1776	0.0247	0.2023		2,410.8700	2,410.8700	0.1602		2,414.8739

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					2.3557	0.0000	2.3557	0.3567	0.0000	0.3567			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	2.3557	1.6587	4.0144	0.3567	1.5419	1.8985	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

3.2 Demolition - 2020

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	0.2103	7.3242	1.5648	0.0208	0.4859	0.0246	0.5104	0.1331	0.0235	0.1567		2,250.3153	2,250.3153	0.1556		2,254.2040
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	0.0740	0.0500	0.5521	1.6100e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		160.5547	160.5547	4.6000e-003		160.6699
Total	0.2843	7.3741	2.1169	0.0224	0.6535	0.0258	0.6794	0.1776	0.0247	0.2023		2,410.8700	2,410.8700	0.1602		2,414.8739

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.3410	0.0000	18.3410	9.9604	0.0000	9.9604			0.0000			0.0000
Off-Road	4.7397	48.1286	28.4680	0.0494		2.5124	2.5124		2.3273	2.3273		4,777.8846	4,777.8846	1.3911		4,812.6628
Total	4.7397	48.1286	28.4680	0.0494	18.3410	2.5124	20.8534	9.9604	2.3273	12.2876		4,777.8846	4,777.8846	1.3911		4,812.6628

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

3.3 Site Preparation - 2020

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	0.1174	4.0889	0.8736	0.0116	0.2712	0.0137	0.2850	0.0743	0.0131	0.0875		1,256.2850	1,256.2850	0.0868		1,258.4560
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	0.1135	0.0766	0.8466	2.4700e-003	0.2571	1.9500e-003	0.2590	0.0682	1.8000e-003	0.0700		246.1839	246.1839	7.0600e-003		246.3605
Total	0.2309	4.1655	1.7202	0.0141	0.5283	0.0157	0.5440	0.1425	0.0149	0.1574		1,502.4690	1,502.4690	0.0939		1,504.8165

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.2535	0.0000	8.2535	4.4822	0.0000	4.4822			0.0000			0.0000
Off-Road	4.7397	48.1286	28.4680	0.0494		2.5124	2.5124		2.3273	2.3273	0.0000	4,777.8846	4,777.8846	1.3911		4,812.6628
Total	4.7397	48.1286	28.4680	0.0494	8.2535	2.5124	10.7659	4.4822	2.3273	6.8094	0.0000	4,777.8846	4,777.8846	1.3911		4,812.6628

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

3.3 Site Preparation - 2020

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	0.1174	4.0889	0.8736	0.0116	0.2712	0.0137	0.2850	0.0743	0.0131	0.0875		1,256.2850	1,256.2850	0.0868		1,258.4560
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	0.1135	0.0766	0.8466	2.4700e-003	0.2571	1.9500e-003	0.2590	0.0682	1.8000e-003	0.0700		246.1839	246.1839	7.0600e-003		246.3605
Total	0.2309	4.1655	1.7202	0.0141	0.5283	0.0157	0.5440	0.1425	0.0149	0.1574		1,502.4690	1,502.4690	0.0939		1,504.8165

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1595	0.0000	6.1595	3.3251	0.0000	3.3251			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.1595	1.2734	7.4329	3.3251	1.1716	4.4966		2,872.4851	2,872.4851	0.9290		2,895.7106

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

3.4 Grading - 2020

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	0.5646	19.6665	4.2018	0.0559	1.3046	0.0660	1.3706	0.3575	0.0631	0.4206		6,042.4349	6,042.4349	0.4177		6,052.8768
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	0.0740	0.0500	0.5521	1.6100e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		160.5547	160.5547	4.6000e-003		160.6699
Total	0.6386	19.7164	4.7539	0.0575	1.4723	0.0673	1.5395	0.4020	0.0643	0.4663		6,202.9897	6,202.9897	0.4223		6,213.5467

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					2.7718	0.0000	2.7718	1.4963	0.0000	1.4963			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	2.7718	1.2734	4.0452	1.4963	1.1716	2.6678	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

3.4 Grading - 2020

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	0.5646	19.6665	4.2018	0.0559	1.3046	0.0660	1.3706	0.3575	0.0631	0.4206		6,042.4349	6,042.4349	0.4177		6,052.8768
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	0.0740	0.0500	0.5521	1.6100e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		160.5547	160.5547	4.6000e-003		160.6699
Total	0.6386	19.7164	4.7539	0.0575	1.4723	0.0673	1.5395	0.4020	0.0643	0.4663		6,202.9897	6,202.9897	0.4223		6,213.5467

3.5 Building Construction - 2020

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	3.2872	28.2171	26.8975	0.0438		1.6487	1.6487		1.5809	1.5809		4,139.7619	4,139.7619	0.7761		4,159.1639
Total	3.2872	28.2171	26.8975	0.0438		1.6487	1.6487		1.5809	1.5809		4,139.7619	4,139.7619	0.7761		4,159.1639

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

3.5 Building Construction - 2020

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	0.3509	10.6923	2.8416	0.0255	0.6528	0.0538	0.7066	0.1879	0.0515	0.2394		2,718.4306	2,718.4306	0.1888		2,723.1497
Worker	2.2107	1.4919	16.4903	0.0481	5.0076	0.0380	5.0456	1.3280	0.0350	1.3630		4,795.2350	4,795.2350	0.1375		4,798.6730
Total	2.5616	12.1842	19.3319	0.0736	5.6604	0.0918	5.7522	1.5160	0.0865	1.6025		7,513.6656	7,513.6656	0.3263		7,521.8227

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	3.2872	28.2171	26.8975	0.0438		1.6487	1.6487		1.5809	1.5809	0.0000	4,139.7619	4,139.7619	0.7761		4,159.1639
Total	3.2872	28.2171	26.8975	0.0438		1.6487	1.6487		1.5809	1.5809	0.0000	4,139.7619	4,139.7619	0.7761		4,159.1639

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

3.5 Building Construction - 2020

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	0.3509	10.6923	2.8416	0.0255	0.6528	0.0538	0.7066	0.1879	0.0515	0.2394		2,718.4306	2,718.4306	0.1888		2,723.1497
Worker	2.2107	1.4919	16.4903	0.0481	5.0076	0.0380	5.0456	1.3280	0.0350	1.3630		4,795.2350	4,795.2350	0.1375		4,798.6730
Total	2.5616	12.1842	19.3319	0.0736	5.6604	0.0918	5.7522	1.5160	0.0865	1.6025		7,513.6656	7,513.6656	0.3263		7,521.8227

3.5 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	2.9613	25.6825	26.5651	0.0438		1.4129	1.4129		1.3547	1.3547		4,140.0639	4,140.0639	0.7594		4,159.0475
Total	2.9613	25.6825	26.5651	0.0438		1.4129	1.4129		1.3547	1.3547		4,140.0639	4,140.0639	0.7594		4,159.0475

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

3.5 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	0.2988	9.6975	2.5833	0.0253	0.6528	0.0202	0.6730	0.1879	0.0193	0.2073		2,698.4120	2,698.4120	0.1805		2,702.9256
Worker	2.0661	1.3426	15.1666	0.0466	5.0076	0.0369	5.0444	1.3280	0.0340	1.3620		4,639.7921	4,639.7921	0.1244		4,642.9008
Total	2.3649	11.0401	17.7499	0.0718	5.6604	0.0571	5.7175	1.5160	0.0533	1.5693		7,338.2040	7,338.2040	0.3049		7,345.8263

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	2.9613	25.6825	26.5651	0.0438		1.4129	1.4129		1.3547	1.3547	0.0000	4,140.0639	4,140.0639	0.7594		4,159.0475
Total	2.9613	25.6825	26.5651	0.0438		1.4129	1.4129		1.3547	1.3547	0.0000	4,140.0639	4,140.0639	0.7594		4,159.0475

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

3.5 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	0.2988	9.6975	2.5833	0.0253	0.6528	0.0202	0.6730	0.1879	0.0193	0.2073		2,698.4120	2,698.4120	0.1805		2,702.9256
Worker	2.0661	1.3426	15.1666	0.0466	5.0076	0.0369	5.0444	1.3280	0.0340	1.3620		4,639.7921	4,639.7921	0.1244		4,642.9008
Total	2.3649	11.0401	17.7499	0.0718	5.6604	0.0571	5.7175	1.5160	0.0533	1.5693		7,338.2040	7,338.2040	0.3049		7,345.8263

3.5 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	2.6984	23.2689	26.3339	0.0438		1.2073	1.2073		1.1586	1.1586		4,141.0324	4,141.0324	0.7504		4,159.7935
Total	2.6984	23.2689	26.3339	0.0438		1.2073	1.2073		1.1586	1.1586		4,141.0324	4,141.0324	0.7504		4,159.7935

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

3.5 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	0.2803	9.1975	2.4428	0.0250	0.6528	0.0175	0.6703	0.1879	0.0168	0.2047		2,674.381 1	2,674.381 1	0.1737		2,678.723 2
Worker	1.9431	1.2125	13.9988	0.0449	5.0076	0.0358	5.0434	1.3280	0.0330	1.3610		4,473.443 6	4,473.443 6	0.1123		4,476.250 9
Total	2.2234	10.4100	16.4416	0.0699	5.6604	0.0533	5.7137	1.5160	0.0497	1.5657		7,147.824 7	7,147.824 7	0.2860		7,154.974 1

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	2.6984	23.2689	26.3339	0.0438		1.2073	1.2073		1.1586	1.1586	0.0000	4,141.032 4	4,141.032 4	0.7504		4,159.793 5
Total	2.6984	23.2689	26.3339	0.0438		1.2073	1.2073		1.1586	1.1586	0.0000	4,141.032 4	4,141.032 4	0.7504		4,159.793 5

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

3.5 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	0.2803	9.1975	2.4428	0.0250	0.6528	0.0175	0.6703	0.1879	0.0168	0.2047		2,674.381 1	2,674.381 1	0.1737		2,678.723 2
Worker	1.9431	1.2125	13.9988	0.0449	5.0076	0.0358	5.0434	1.3280	0.0330	1.3610		4,473.443 6	4,473.443 6	0.1123		4,476.250 9
Total	2.2234	10.4100	16.4416	0.0699	5.6604	0.0533	5.7137	1.5160	0.0497	1.5657		7,147.824 7	7,147.824 7	0.2860		7,154.974 1

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0651	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	0.0651	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

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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0651	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	0.0651	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

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	33.3671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.2994	9.5714	13.0695	0.0212		0.5111	0.5111		0.5094	0.5094		2,013.9280	2,013.9280	0.2151		2,019.3063
Total	34.6665	9.5714	13.0695	0.0212		0.5111	0.5111		0.5094	0.5094		2,013.9280	2,013.9280	0.2151		2,019.3063

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3904	0.2436	2.8123	9.0200e-003	1.0060	7.1900e-003	1.0132	0.2668	6.6200e-003	0.2734		898.6829	898.6829	0.0226		899.2468
Total	0.3904	0.2436	2.8123	9.0200e-003	1.0060	7.1900e-003	1.0132	0.2668	6.6200e-003	0.2734		898.6829	898.6829	0.0226		899.2468

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	33.3671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.2994	9.5714	13.0695	0.0212		0.5111	0.5111		0.5094	0.5094	0.0000	2,013.9280	2,013.9280	0.2151		2,019.3063
Total	34.6665	9.5714	13.0695	0.0212		0.5111	0.5111		0.5094	0.5094	0.0000	2,013.9280	2,013.9280	0.2151		2,019.3063

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3904	0.2436	2.8123	9.0200e-003	1.0060	7.1900e-003	1.0132	0.2668	6.6200e-003	0.2734		898.6829	898.6829	0.0226		899.2468
Total	0.3904	0.2436	2.8123	9.0200e-003	1.0060	7.1900e-003	1.0132	0.2668	6.6200e-003	0.2734		898.6829	898.6829	0.0226		899.2468

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

2800 Casitas Avenue Proposed Project - 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	4.4883	21.1093	59.3213	0.2375	21.2913	0.1714	21.4627	5.6965	0.1594	5.8559		24,218.73 43	24,218.73 43	1.1149		24,246.60 55
Unmitigated	4.4883	21.1093	59.3213	0.2375	21.2913	0.1714	21.4627	5.6965	0.1594	5.8559		24,218.73 43	24,218.73 43	1.1149		24,246.60 55

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,648.08	2,543.33	2333.83	8,844,351	8,844,351
City Park	77.99	77.99	77.99	224,414	224,414
General Office Building	189.05	42.18	18.05	462,731	462,731
High Turnover (Sit Down Restaurant)	77.01	95.91	79.86	109,186	109,186
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	2,992.13	2,759.41	2,509.73	9,640,681	9,640,681

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	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
City Park	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
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
High Turnover (Sit Down Restaurant)	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
Unenclosed Parking with Elevator	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

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1622	1.4005	0.6950	8.8500e-003		0.1121	0.1121		0.1121	0.1121		1,769.5173	1,769.5173	0.0339	0.0324	1,780.0327
NaturalGas Unmitigated	0.1622	1.4005	0.6950	8.8500e-003		0.1121	0.1121		0.1121	0.1121		1,769.5173	1,769.5173	0.0339	0.0324	1,780.0327

2800 Casitas Avenue Proposed Project - 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					
Apartments Mid Rise	12602.3	0.1359	1.1614	0.4942	7.4100e-003		0.0939	0.0939		0.0939	0.0939		1,482.6293	1,482.6293	0.0284	0.0272	1,491.4398
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	541.89	5.8400e-003	0.0531	0.0446	3.2000e-004		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003		63.7518	63.7518	1.2200e-003	1.1700e-003	64.1307
High Turnover (Sit Down Restaurant)	1896.66	0.0205	0.1860	0.1562	1.1200e-003		0.0141	0.0141		0.0141	0.0141		223.1362	223.1362	4.2800e-003	4.0900e-003	224.4622
Unenclosed Parking with Elevator	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		0.1622	1.4005	0.6950	8.8500e-003		0.1121	0.1121		0.1121	0.1121		1,769.5173	1,769.5173	0.0339	0.0324	1,780.0327

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	12.6023	0.1359	1.1614	0.4942	7.4100e-003		0.0939	0.0939		0.0939	0.0939		1,482.6293	1,482.6293	0.0284	0.0272	1,491.4398
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.54189	5.8400e-003	0.0531	0.0446	3.2000e-004		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003		63.7518	63.7518	1.2200e-003	1.1700e-003	64.1307
High Turnover (Sit Down Restaurant)	1.89666	0.0205	0.1860	0.1562	1.1200e-003		0.0141	0.0141		0.0141	0.0141		223.1362	223.1362	4.2800e-003	4.0900e-003	224.4622
Unenclosed Parking with Elevator	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		0.1622	1.4005	0.6950	8.8500e-003		0.1121	0.1121		0.1121	0.1121		1,769.5173	1,769.5173	0.0339	0.0324	1,780.0327

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

2800 Casitas Avenue Proposed Project - 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	10.7856	0.3993	34.6516	1.8300e-003		0.1916	0.1916		0.1916	0.1916	0.0000	62.4060	62.4060	0.0603	0.0000	63.9130
Unmitigated	10.7856	0.3993	34.6516	1.8300e-003		0.1916	0.1916		0.1916	0.1916	0.0000	62.4060	62.4060	0.0603	0.0000	63.9130

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	0.8045					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.9324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0487	0.3993	34.6516	1.8300e-003		0.1916	0.1916		0.1916	0.1916		62.4060	62.4060	0.0603		63.9130
Total	10.7856	0.3993	34.6516	1.8300e-003		0.1916	0.1916		0.1916	0.1916	0.0000	62.4060	62.4060	0.0603	0.0000	63.9130

2800 Casitas Avenue Proposed Project - 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	0.8045					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.9324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0487	0.3993	34.6516	1.8300e-003		0.1916	0.1916		0.1916	0.1916		62.4060	62.4060	0.0603		63.9130
Total	10.7856	0.3993	34.6516	1.8300e-003		0.1916	0.1916		0.1916	0.1916	0.0000	62.4060	62.4060	0.0603	0.0000	63.9130

7.0 Water Detail

7.1 Mitigation Measures Water

- Apply Water Conservation Strategy
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

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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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	4	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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2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Winter

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)	3.2817	14.6775	8.3688	0.0158		0.4828	0.4828		0.4828	0.4828		1,679.028 2	1,679.028 2	0.2354		1,684.913 3
Total	3.2817	14.6775	8.3688	0.0158		0.4828	0.4828		0.4828	0.4828		1,679.028 2	1,679.028 2	0.2354		1,684.913 3

11.0 Vegetation

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

2800 Casitas Avenue Proposed Project
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	19.00	1000sqft	0.00	19,000.00	0
Unenclosed Parking with Elevator	720.00	Space	0.00	288,000.00	0
City Park	0.97	Acre	0.00	42,000.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.00	3,000.00	0
Apartments Mid Rise	419.00	Dwelling Unit	5.70	423,872.00	1370

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

Project Characteristics -

Land Use - Project Data per September 29, 2016 site plans. Land use code for park assumed for urban farm due to similarity in land uses.

Construction Phase - Approximate 30-month construction timeline.

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

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Haul trip length estimates 23 miles to Sunshine Canyon Landfill with 14 cy haul truck capacity.

Demolition - Demolish approx. 117,000 sf of existing building.

Grading - Approx. 3,000 cy asphalt export and 10,000 cy soil import and 10,000 cy soil export (20,000 cy total) on 5.7-acre lot.

Vehicle Trips - Trip rates adjusted based on Traffic Study and incorporates trip reductions (transit, internal)

Woodstoves - No woodstoves or fireplaces proposed.

Sequestration - 140 trees proposed on-site

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	88.00
tblConstructionPhase	NumDays	230.00	434.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	44.00

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

tblConstructionPhase	NumDays	10.00	22.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	356.15	0.00
tblFireplaces	NumberNoFireplace	41.90	0.00
tblFireplaces	NumberWood	20.95	0.00
tblGrading	AcresOfGrading	22.00	5.70
tblGrading	AcresOfGrading	0.00	5.70
tblGrading	MaterialExported	0.00	10,000.00
tblGrading	MaterialExported	0.00	3,000.00
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	42,253.20	42,000.00
tblLandUse	LandUseSquareFeet	419,000.00	423,872.00
tblLandUse	LotAcreage	0.44	0.00
tblLandUse	LotAcreage	6.48	0.00
tblLandUse	LotAcreage	0.97	0.00
tblLandUse	LotAcreage	0.07	0.00
tblLandUse	LotAcreage	11.03	5.70
tblLandUse	Population	1,198.00	1,370.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblSequestration	NumberOfNewTrees	0.00	140.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,000.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	4.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripLength	20.00	23.00
tblTripsAndVMT	HaulingTripNumber	1,978.00	2,857.00
tblVehicleTrips	ST_TR	6.39	6.07
tblVehicleTrips	ST_TR	22.75	80.40
tblVehicleTrips	ST_TR	2.46	2.22
tblVehicleTrips	ST_TR	158.37	31.97
tblVehicleTrips	SU_TR	5.86	5.57
tblVehicleTrips	SU_TR	16.74	80.40
tblVehicleTrips	SU_TR	1.05	0.95
tblVehicleTrips	SU_TR	131.84	26.62
tblVehicleTrips	WD_TR	6.65	6.32
tblVehicleTrips	WD_TR	1.89	80.40
tblVehicleTrips	WD_TR	11.03	9.95
tblVehicleTrips	WD_TR	127.15	25.67
tblWoodstoves	NumberCatalytic	20.95	0.00
tblWoodstoves	NumberNoncatalytic	20.95	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2800 Casitas Avenue Proposed Project - 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					
2020	5.6491	52.2253	47.7613	0.1215	18.8694	2.5279	21.3973	10.1029	2.3420	12.4449	0.0000	12,066.12 64	12,066.12 64	1.4823	0.0000	12,093.60 74
2021	5.1363	36.6373	45.7508	0.1196	5.6604	1.4694	7.1298	1.5160	1.4073	2.9233	0.0000	11,880.10 31	11,880.10 31	1.0609	0.0000	11,906.62 45
2022	35.0228	33.6112	44.1219	0.1176	5.6604	1.2601	6.9205	1.5160	1.2078	2.7238	0.0000	11,679.03 87	11,679.03 87	1.0329	0.0000	11,704.85 98
Maximum	35.0228	52.2253	47.7613	0.1215	18.8694	2.5279	21.3973	10.1029	2.3420	12.4449	0.0000	12,066.12 64	12,066.12 64	1.4823	0.0000	12,093.60 74

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					
2020	5.6491	52.2253	47.7613	0.1215	8.7818	2.5279	11.3097	4.6247	2.3420	6.9667	0.0000	12,066.12 64	12,066.12 64	1.4823	0.0000	12,093.60 74
2021	5.1363	36.6373	45.7508	0.1196	5.6604	1.4694	7.1298	1.5160	1.4073	2.9233	0.0000	11,880.10 31	11,880.10 31	1.0609	0.0000	11,906.62 44
2022	35.0228	33.6112	44.1219	0.1176	5.6604	1.2601	6.9205	1.5160	1.2078	2.7238	0.0000	11,679.03 87	11,679.03 87	1.0329	0.0000	11,704.85 98
Maximum	35.0228	52.2253	47.7613	0.1215	8.7818	2.5279	11.3097	4.6247	2.3420	6.9667	0.0000	12,066.12 64	12,066.12 64	1.4823	0.0000	12,093.60 74

2800 Casitas Avenue Proposed Project - 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	33.41	0.00	28.46	41.71	0.00	30.28	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	10.7856	0.3993	34.6516	1.8300e-003		0.1916	0.1916		0.1916	0.1916	0.0000	62.4060	62.4060	0.0603	0.0000	63.9130
Energy	0.1622	1.4005	0.6950	8.8500e-003		0.1121	0.1121		0.1121	0.1121		1,769.5173	1,769.5173	0.0339	0.0324	1,780.0327
Mobile	4.7399	20.7054	63.6398	0.2509	21.2913	0.1706	21.4619	5.6965	0.1586	5.8551		25,563.5103	25,563.5103	1.1176		25,591.4496
Stationary	3.2817	14.6775	8.3688	0.0158		0.4828	0.4828		0.4828	0.4828		1,679.0282	1,679.0282	0.2354		1,684.9133
Total	18.9694	37.1826	107.3552	0.2774	21.2913	0.9571	22.2484	5.6965	0.9452	6.6417	0.0000	29,074.4619	29,074.4619	1.4472	0.0324	29,120.3086

2800 Casitas Avenue Proposed Project - 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	10.7856	0.3993	34.6516	1.8300e-003		0.1916	0.1916		0.1916	0.1916	0.0000	62.4060	62.4060	0.0603	0.0000	63.9130
Energy	0.1622	1.4005	0.6950	8.8500e-003		0.1121	0.1121		0.1121	0.1121		1,769.5173	1,769.5173	0.0339	0.0324	1,780.0327
Mobile	4.7399	20.7054	63.6398	0.2509	21.2913	0.1706	21.4619	5.6965	0.1586	5.8551		25,563.5103	25,563.5103	1.1176		25,591.4496
Stationary	3.2817	14.6775	8.3688	0.0158		0.4828	0.4828		0.4828	0.4828		1,679.0282	1,679.0282	0.2354		1,684.9133
Total	18.9694	37.1826	107.3552	0.2774	21.2913	0.9571	22.2484	5.6965	0.9452	6.6417	0.0000	29,074.4619	29,074.4619	1.4472	0.0324	29,120.3086

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

3.0 Construction Detail

Construction Phase

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/30/2020	5	22	
2	Site Preparation	Site Preparation	7/1/2020	7/30/2020	5	22	
3	Grading	Grading	7/31/2020	9/30/2020	5	44	
4	Building Construction	Building Construction	10/1/2020	5/31/2022	5	434	
5	Paving	Paving	6/1/2022	8/1/2022	5	44	
6	Architectural Coating	Architectural Coating	8/2/2022	12/1/2022	5	88	

Acres of Grading (Site Preparation Phase): 5.7

Acres of Grading (Grading Phase): 5.7

Acres of Paving: 0

Residential Indoor: 858,341; Residential Outdoor: 286,114; Non-Residential Indoor: 33,000; Non-Residential Outdoor: 11,000; Striped Parking Area: 17,280 (Architectural Coating – sqft)

OffRoad Equipment

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Air Compressors	2	8.00	78	0.48
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Aerial Lifts	2	8.00	63	0.31
Architectural Coating	Air Compressors	6	6.00	78	0.48

Trips and VMT

2800 Casitas Avenue Proposed Project - 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	6	15.00	0.00	532.00	14.70	6.90	23.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	9	23.00	0.00	297.00	14.70	6.90	23.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	2,857.00	14.70	6.90	23.00	LD_Mix	HDT_Mix	HHDT
Building Construction	14	448.00	102.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	90.00	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 - 2020

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					5.2350	0.0000	5.2350	0.7926	0.0000	0.7926			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	5.2350	1.6587	6.8937	0.7926	1.5419	2.3345		3,747.7049	3,747.7049	1.0580		3,774.1536

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

3.2 Demolition - 2020

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	0.2050	7.2130	1.4656	0.0212	0.4859	0.0243	0.5101	0.1331	0.0232	0.1563		2,287.6307	2,287.6307	0.1497		2,291.3719
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	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860
Total	0.2729	7.2586	2.0789	0.0229	0.6535	0.0255	0.6791	0.1776	0.0244	0.2020		2,459.2933	2,459.2933	0.1546		2,463.1579

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					2.3557	0.0000	2.3557	0.3567	0.0000	0.3567			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	2.3557	1.6587	4.0144	0.3567	1.5419	1.8985	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

3.2 Demolition - 2020

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	0.2050	7.2130	1.4656	0.0212	0.4859	0.0243	0.5101	0.1331	0.0232	0.1563		2,287.6307	2,287.6307	0.1497		2,291.3719
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	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860
Total	0.2729	7.2586	2.0789	0.0229	0.6535	0.0255	0.6791	0.1776	0.0244	0.2020		2,459.2933	2,459.2933	0.1546		2,463.1579

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.3410	0.0000	18.3410	9.9604	0.0000	9.9604			0.0000			0.0000
Off-Road	4.7397	48.1286	28.4680	0.0494		2.5124	2.5124		2.3273	2.3273		4,777.8846	4,777.8846	1.3911		4,812.6628
Total	4.7397	48.1286	28.4680	0.0494	18.3410	2.5124	20.8534	9.9604	2.3273	12.2876		4,777.8846	4,777.8846	1.3911		4,812.6628

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

3.3 Site Preparation - 2020

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	0.1145	4.0268	0.8182	0.0118	0.2712	0.0135	0.2848	0.0743	0.0130	0.0873		1,277.117 1	1,277.117 1	0.0836		1,279.205 7
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	0.1041	0.0700	0.9403	2.6400e-003	0.2571	1.9500e-003	0.2590	0.0682	1.8000e-003	0.0700		263.2160	263.2160	7.5700e-003		263.4052
Total	0.2185	4.0968	1.7585	0.0145	0.5283	0.0155	0.5438	0.1425	0.0148	0.1573		1,540.333 1	1,540.333 1	0.0911		1,542.611 0

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.2535	0.0000	8.2535	4.4822	0.0000	4.4822			0.0000			0.0000
Off-Road	4.7397	48.1286	28.4680	0.0494		2.5124	2.5124		2.3273	2.3273	0.0000	4,777.884 6	4,777.884 6	1.3911		4,812.662 8
Total	4.7397	48.1286	28.4680	0.0494	8.2535	2.5124	10.7659	4.4822	2.3273	6.8094	0.0000	4,777.884 6	4,777.884 6	1.3911		4,812.662 8

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

3.3 Site Preparation - 2020

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	0.1145	4.0268	0.8182	0.0118	0.2712	0.0135	0.2848	0.0743	0.0130	0.0873		1,277.117 1	1,277.117 1	0.0836		1,279.205 7
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	0.1041	0.0700	0.9403	2.6400e-003	0.2571	1.9500e-003	0.2590	0.0682	1.8000e-003	0.0700		263.2160	263.2160	7.5700e-003		263.4052
Total	0.2185	4.0968	1.7585	0.0145	0.5283	0.0155	0.5438	0.1425	0.0148	0.1573		1,540.333 1	1,540.333 1	0.0911		1,542.611 0

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1595	0.0000	6.1595	3.3251	0.0000	3.3251			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.485 1	2,872.485 1	0.9290		2,895.710 6
Total	2.4288	26.3859	16.0530	0.0297	6.1595	1.2734	7.4329	3.3251	1.1716	4.4966		2,872.485 1	2,872.485 1	0.9290		2,895.710 6

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

3.4 Grading - 2020

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	0.5505	19.3680	3.9354	0.0568	1.3046	0.0651	1.3697	0.3575	0.0623	0.4198		6,142.6323	6,142.6323	0.4018		6,152.6781
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	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860
Total	0.6184	19.4136	4.5487	0.0585	1.4723	0.0664	1.5387	0.4020	0.0635	0.4654		6,314.2949	6,314.2949	0.4068		6,324.4641

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					2.7718	0.0000	2.7718	1.4963	0.0000	1.4963			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	2.7718	1.2734	4.0452	1.4963	1.1716	2.6678	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

3.4 Grading - 2020

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	0.5505	19.3680	3.9354	0.0568	1.3046	0.0651	1.3697	0.3575	0.0623	0.4198		6,142.6323	6,142.6323	0.4018		6,152.6781
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	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860
Total	0.6184	19.4136	4.5487	0.0585	1.4723	0.0664	1.5387	0.4020	0.0635	0.4654		6,314.2949	6,314.2949	0.4068		6,324.4641

3.5 Building Construction - 2020

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	3.2872	28.2171	26.8975	0.0438		1.6487	1.6487		1.5809	1.5809		4,139.7619	4,139.7619	0.7761		4,159.1639
Total	3.2872	28.2171	26.8975	0.0438		1.6487	1.6487		1.5809	1.5809		4,139.7619	4,139.7619	0.7761		4,159.1639

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

3.5 Building Construction - 2020

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	0.3350	10.7034	2.5487	0.0262	0.6528	0.0530	0.7059	0.1879	0.0507	0.2387		2,799.374 2	2,799.374 2	0.1758		2,803.768 2
Worker	2.0269	1.3625	18.3151	0.0515	5.0076	0.0380	5.0456	1.3280	0.0350	1.3630		5,126.990 2	5,126.990 2	0.1474		5,130.675 3
Total	2.3619	12.0659	20.8638	0.0777	5.6604	0.0910	5.7514	1.5160	0.0857	1.6017		7,926.364 4	7,926.364 4	0.3232		7,934.443 5

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	3.2872	28.2171	26.8975	0.0438		1.6487	1.6487		1.5809	1.5809	0.0000	4,139.761 9	4,139.761 9	0.7761		4,159.163 9
Total	3.2872	28.2171	26.8975	0.0438		1.6487	1.6487		1.5809	1.5809	0.0000	4,139.761 9	4,139.761 9	0.7761		4,159.163 9

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

3.5 Building Construction - 2020

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	0.3350	10.7034	2.5487	0.0262	0.6528	0.0530	0.7059	0.1879	0.0507	0.2387		2,799.374 2	2,799.374 2	0.1758		2,803.768 2
Worker	2.0269	1.3625	18.3151	0.0515	5.0076	0.0380	5.0456	1.3280	0.0350	1.3630		5,126.990 2	5,126.990 2	0.1474		5,130.675 3
Total	2.3619	12.0659	20.8638	0.0777	5.6604	0.0910	5.7514	1.5160	0.0857	1.6017		7,926.364 4	7,926.364 4	0.3232		7,934.443 5

3.5 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	2.9613	25.6825	26.5651	0.0438		1.4129	1.4129		1.3547	1.3547		4,140.063 9	4,140.063 9	0.7594		4,159.047 5
Total	2.9613	25.6825	26.5651	0.0438		1.4129	1.4129		1.3547	1.3547		4,140.063 9	4,140.063 9	0.7594		4,159.047 5

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

3.5 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	0.2838	9.7283	2.3085	0.0260	0.6528	0.0196	0.6724	0.1879	0.0187	0.2067		2,778.8724	2,778.8724	0.1681		2,783.0748
Worker	1.8911	1.2265	16.8773	0.0498	5.0076	0.0369	5.0444	1.3280	0.0340	1.3620		4,961.1669	4,961.1669	0.1334		4,964.5022
Total	2.1749	10.9548	19.1858	0.0758	5.6604	0.0565	5.7169	1.5160	0.0527	1.5687		7,740.0392	7,740.0392	0.3015		7,747.5770

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	2.9613	25.6825	26.5651	0.0438		1.4129	1.4129		1.3547	1.3547	0.0000	4,140.0639	4,140.0639	0.7594		4,159.0475
Total	2.9613	25.6825	26.5651	0.0438		1.4129	1.4129		1.3547	1.3547	0.0000	4,140.0639	4,140.0639	0.7594		4,159.0475

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

3.5 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	0.2838	9.7283	2.3085	0.0260	0.6528	0.0196	0.6724	0.1879	0.0187	0.2067		2,778.8724	2,778.8724	0.1681		2,783.0748
Worker	1.8911	1.2265	16.8773	0.0498	5.0076	0.0369	5.0444	1.3280	0.0340	1.3620		4,961.1669	4,961.1669	0.1334		4,964.5022
Total	2.1749	10.9548	19.1858	0.0758	5.6604	0.0565	5.7169	1.5160	0.0527	1.5687		7,740.0392	7,740.0392	0.3015		7,747.5770

3.5 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	2.6984	23.2689	26.3339	0.0438		1.2073	1.2073		1.1586	1.1586		4,141.0324	4,141.0324	0.7504		4,159.7935
Total	2.6984	23.2689	26.3339	0.0438		1.2073	1.2073		1.1586	1.1586		4,141.0324	4,141.0324	0.7504		4,159.7935

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

3.5 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	0.2662	9.2344	2.1818	0.0258	0.6528	0.0170	0.6698	0.1879	0.0162	0.2042		2,754.603 1	2,754.603 1	0.1618		2,758.648 7
Worker	1.7739	1.1079	15.6062	0.0480	5.0076	0.0358	5.0434	1.3280	0.0330	1.3610		4,783.403 2	4,783.403 2	0.1206		4,786.417 6
Total	2.0400	10.3423	17.7880	0.0738	5.6604	0.0528	5.7132	1.5160	0.0492	1.5652		7,538.006 3	7,538.006 3	0.2824		7,545.066 3

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	2.6984	23.2689	26.3339	0.0438		1.2073	1.2073		1.1586	1.1586	0.0000	4,141.032 4	4,141.032 4	0.7504		4,159.793 5
Total	2.6984	23.2689	26.3339	0.0438		1.2073	1.2073		1.1586	1.1586	0.0000	4,141.032 4	4,141.032 4	0.7504		4,159.793 5

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

3.5 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	0.2662	9.2344	2.1818	0.0258	0.6528	0.0170	0.6698	0.1879	0.0162	0.2042		2,754.603 1	2,754.603 1	0.1618		2,758.648 7
Worker	1.7739	1.1079	15.6062	0.0480	5.0076	0.0358	5.0434	1.3280	0.0330	1.3610		4,783.403 2	4,783.403 2	0.1206		4,786.417 6
Total	2.0400	10.3423	17.7880	0.0738	5.6604	0.0528	5.7132	1.5160	0.0492	1.5652		7,538.006 3	7,538.006 3	0.2824		7,545.066 3

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0594	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	0.0594	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

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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0594	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	0.0594	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

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	33.3671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.2994	9.5714	13.0695	0.0212		0.5111	0.5111		0.5094	0.5094		2,013.9280	2,013.9280	0.2151		2,019.3063
Total	34.6665	9.5714	13.0695	0.0212		0.5111	0.5111		0.5094	0.5094		2,013.9280	2,013.9280	0.2151		2,019.3063

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3564	0.2226	3.1352	9.6400e-003	1.0060	7.1900e-003	1.0132	0.2668	6.6200e-003	0.2734		960.9515	960.9515	0.0242		961.5571
Total	0.3564	0.2226	3.1352	9.6400e-003	1.0060	7.1900e-003	1.0132	0.2668	6.6200e-003	0.2734		960.9515	960.9515	0.0242		961.5571

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	33.3671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.2994	9.5714	13.0695	0.0212		0.5111	0.5111		0.5094	0.5094	0.0000	2,013.9280	2,013.9280	0.2151		2,019.3063
Total	34.6665	9.5714	13.0695	0.0212		0.5111	0.5111		0.5094	0.5094	0.0000	2,013.9280	2,013.9280	0.2151		2,019.3063

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3564	0.2226	3.1352	9.6400e-003	1.0060	7.1900e-003	1.0132	0.2668	6.6200e-003	0.2734		960.9515	960.9515	0.0242		961.5571
Total	0.3564	0.2226	3.1352	9.6400e-003	1.0060	7.1900e-003	1.0132	0.2668	6.6200e-003	0.2734		960.9515	960.9515	0.0242		961.5571

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

2800 Casitas Avenue Proposed Project - 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	4.7399	20.7054	63.6398	0.2509	21.2913	0.1706	21.4619	5.6965	0.1586	5.8551		25,563.5103	25,563.5103	1.1176		25,591.4496
Unmitigated	4.7399	20.7054	63.6398	0.2509	21.2913	0.1706	21.4619	5.6965	0.1586	5.8551		25,563.5103	25,563.5103	1.1176		25,591.4496

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,648.08	2,543.33	2333.83	8,844,351	8,844,351
City Park	77.99	77.99	77.99	224,414	224,414
General Office Building	189.05	42.18	18.05	462,731	462,731
High Turnover (Sit Down Restaurant)	77.01	95.91	79.86	109,186	109,186
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	2,992.13	2,759.41	2,509.73	9,640,681	9,640,681

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	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
City Park	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
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
High Turnover (Sit Down Restaurant)	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
Unenclosed Parking with Elevator	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

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1622	1.4005	0.6950	8.8500e-003		0.1121	0.1121		0.1121	0.1121		1,769.5173	1,769.5173	0.0339	0.0324	1,780.0327
NaturalGas Unmitigated	0.1622	1.4005	0.6950	8.8500e-003		0.1121	0.1121		0.1121	0.1121		1,769.5173	1,769.5173	0.0339	0.0324	1,780.0327

2800 Casitas Avenue Proposed Project - 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					
Apartments Mid Rise	12602.3	0.1359	1.1614	0.4942	7.4100e-003		0.0939	0.0939		0.0939	0.0939		1,482.6293	1,482.6293	0.0284	0.0272	1,491.4398
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	541.89	5.8400e-003	0.0531	0.0446	3.2000e-004		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003		63.7518	63.7518	1.2200e-003	1.1700e-003	64.1307
High Turnover (Sit Down Restaurant)	1896.66	0.0205	0.1860	0.1562	1.1200e-003		0.0141	0.0141		0.0141	0.0141		223.1362	223.1362	4.2800e-003	4.0900e-003	224.4622
Unenclosed Parking with Elevator	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		0.1622	1.4005	0.6950	8.8500e-003		0.1121	0.1121		0.1121	0.1121		1,769.5173	1,769.5173	0.0339	0.0324	1,780.0327

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	12.6023	0.1359	1.1614	0.4942	7.4100e-003		0.0939	0.0939		0.0939	0.0939		1,482.6293	1,482.6293	0.0284	0.0272	1,491.4398
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.54189	5.8400e-003	0.0531	0.0446	3.2000e-004		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003		63.7518	63.7518	1.2200e-003	1.1700e-003	64.1307
High Turnover (Sit Down Restaurant)	1.89666	0.0205	0.1860	0.1562	1.1200e-003		0.0141	0.0141		0.0141	0.0141		223.1362	223.1362	4.2800e-003	4.0900e-003	224.4622
Unenclosed Parking with Elevator	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		0.1622	1.4005	0.6950	8.8500e-003		0.1121	0.1121		0.1121	0.1121		1,769.5173	1,769.5173	0.0339	0.0324	1,780.0327

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

2800 Casitas Avenue Proposed Project - 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	10.7856	0.3993	34.6516	1.8300e-003		0.1916	0.1916		0.1916	0.1916	0.0000	62.4060	62.4060	0.0603	0.0000	63.9130
Unmitigated	10.7856	0.3993	34.6516	1.8300e-003		0.1916	0.1916		0.1916	0.1916	0.0000	62.4060	62.4060	0.0603	0.0000	63.9130

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	0.8045					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.9324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0487	0.3993	34.6516	1.8300e-003		0.1916	0.1916		0.1916	0.1916		62.4060	62.4060	0.0603		63.9130
Total	10.7856	0.3993	34.6516	1.8300e-003		0.1916	0.1916		0.1916	0.1916	0.0000	62.4060	62.4060	0.0603	0.0000	63.9130

2800 Casitas Avenue Proposed Project - 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	0.8045					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.9324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0487	0.3993	34.6516	1.8300e-003		0.1916	0.1916		0.1916	0.1916		62.4060	62.4060	0.0603		63.9130
Total	10.7856	0.3993	34.6516	1.8300e-003		0.1916	0.1916		0.1916	0.1916	0.0000	62.4060	62.4060	0.0603	0.0000	63.9130

7.0 Water Detail

7.1 Mitigation Measures Water

- Apply Water Conservation Strategy
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

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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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	4	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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2800 Casitas Avenue Proposed Project - South Coast AQMD Air District, Summer

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)	3.2817	14.6775	8.3688	0.0158		0.4828	0.4828		0.4828	0.4828		1,679.028 2	1,679.028 2	0.2354		1,684.913 3
Total	3.2817	14.6775	8.3688	0.0158		0.4828	0.4828		0.4828	0.4828		1,679.028 2	1,679.028 2	0.2354		1,684.913 3

11.0 Vegetation
