



APPENDIX B

AIR QUALITY, GREENHOUSE GAS, AND ENERGY ANALYSIS DATA



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Cypress Town Center - South Coast AQMD Air District, Annual

Cypress Town Center
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	62.00	Space	0.56	24,800.00	0
Condo/Townhouse	135.00	Dwelling Unit	6.44	135,000.00	386

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	502.65	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - CO2 Intensity Factor is based on 2020 forecast in City of Cypress General Plan, 33% RPS, Cap and Trade, and reduction in SF6.

Land Use - The 135 multi-family residential homes would include 56 two-story condominiums in 79 three-story row townhomes. A two-car side-by-side garage would be provided for each unit and there would be 62 open guest spaces provided within the project site.

Construction Phase - Based on construction information provided by Project Applicant.

Off-road Equipment - Default architectural coating equipment.

Off-road Equipment - Default building construction equipment.

Off-road Equipment - Based on construction information provided by Project Applicant.1

Off-road Equipment - Default paving equipment.

Off-road Equipment - Based on construction information provided by Project Applicant.

Trips and VMT - For soil import haul trips, assuming 14 cubic yards of material per load based on construction information provided by Project Applicant.

Grading - Construction of the proposed project would require approximately 33,030 cubic yards (cy) of cut and 40,155 cy of fill, resulting in a net import of approximately 7,125 cy of material.

Vehicle Trips - Based on trip generation prepared for the project.

Construction Off-road Equipment Mitigation - Assuming compliance with SCAQMD Rule 402 and tier 2 construction equipment.

Mobile Land Use Mitigation -

Area Mitigation - Assuming only natural gas hearth.

Energy Mitigation - Assuming compliance with 2019 Title 24 standards, installation of high efficiency lighting and appliances, and 30% of electricity generated is from on-site renewable energy.

Water Mitigation - Assuming installation of low-flow appliances and use of water-efficient irrigation systems.

Waste Mitigation - Consistent with the CalRecycle Waste Diversion and Recycling Mandate which will reduce solid waste production by 75 percent.

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Cypress Town Center - South Coast AQMD Air District, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	20.00	510.00
tblConstructionPhase	NumDays	230.00	510.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	AcresOfGrading	72.00	7.00
tblGrading	MaterialImported	0.00	7,125.00
tblLandUse	LotAcreage	8.44	6.44
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	9.00
tblOffRoadEquipment	UsageHours	7.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	7.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	502.65
tblTripsAndVMT	HaulingTripNumber	891.00	1,018.00
tblVehicleTrips	ST_TR	5.67	7.32
tblVehicleTrips	SU_TR	4.84	7.32
tblVehicleTrips	WD_TR	5.81	7.32

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0808	0.8907	0.6014	1.8800e-003	0.0202	0.0303	0.0505	4.7600e-003	0.0279	0.0326	0.0000	168.9092	168.9092	0.0437	0.0000	170.0020
2022	0.5943	3.0671	3.6107	7.3100e-003	0.1959	0.1478	0.3437	0.0523	0.1395	0.1919	0.0000	643.8823	643.8823	0.1090	0.0000	646.6061
2023	0.5661	2.7159	3.4336	7.0200e-003	0.2002	0.1247	0.3249	0.0535	0.1180	0.1715	0.0000	617.9042	617.9042	0.0980	0.0000	620.3548
Maximum	0.5943	3.0671	3.6107	7.3100e-003	0.2002	0.1478	0.3437	0.0535	0.1395	0.1919	0.0000	643.8823	643.8823	0.1090	0.0000	646.6061

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0436	1.2708	0.8451	1.8800e-003	0.0179	0.0284	0.0463	4.5000e-003	0.0284	0.0329	0.0000	168.9090	168.9090	0.0437	0.0000	170.0019
2022	0.4799	4.6391	3.9312	7.3100e-003	0.1959	0.1665	0.3624	0.0523	0.1664	0.2187	0.0000	643.8818	643.8818	0.1090	0.0000	646.6055
2023	0.4749	4.3622	3.7048	7.0200e-003	0.2002	0.1608	0.3609	0.0535	0.1606	0.2141	0.0000	617.9037	617.9037	0.0980	0.0000	620.3543
Maximum	0.4799	4.6391	3.9312	7.3100e-003	0.2002	0.1665	0.3624	0.0535	0.1664	0.2187	0.0000	643.8818	643.8818	0.1090	0.0000	646.6055

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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	19.57	-53.92	-10.93	0.00	0.54	-17.47	-7.04	0.24	-24.52	-17.61	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-1-2021	12-31-2021	0.9789	1.3177
2	1-1-2022	3-31-2022	0.9410	1.3972
3	4-1-2022	6-30-2022	0.8940	1.2232
4	7-1-2022	9-30-2022	0.9038	1.2366
5	10-1-2022	12-31-2022	0.9063	1.2391
6	1-1-2023	3-31-2023	0.8123	1.1968
7	4-1-2023	6-30-2023	0.8191	1.2079
8	7-1-2023	9-30-2023	0.8281	1.2211
		Highest	0.9789	1.3972

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2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0162	0.0511	2.2515	2.2600e-003		0.1366	0.1366		0.1366	0.1366	14.3396	29.8314	44.1710	0.0450	9.7000e-004	45.5849
Energy	0.0128	0.1098	0.0467	7.0000e-004		8.8700e-003	8.8700e-003		8.8700e-003	8.8700e-003	0.0000	282.0300	282.0300	0.0114	4.1800e-003	283.5599
Mobile	0.2657	1.3002	3.6868	0.0148	1.2831	0.0105	1.2936	0.3438	9.7200e-003	0.3535	0.0000	1,365.9955	1,365.9955	0.0614	0.0000	1,367.5313
Waste						0.0000	0.0000		0.0000	0.0000	12.6057	0.0000	12.6057	0.7450	0.0000	31.2302
Water						0.0000	0.0000		0.0000	0.0000	2.7905	40.1589	42.9494	0.2889	7.2500e-003	52.3322
Total	1.2948	1.4610	5.9850	0.0177	1.2831	0.1559	1.4391	0.3438	0.1552	0.4990	29.7358	1,718.0158	1,747.7517	1.1517	0.0124	1,780.2384

Cypress Town Center - South Coast AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5770	0.0413	1.4040	2.3000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003	0.0000	31.4524	31.4524	2.7500e-003	5.3000e-004	31.6805
Energy	8.1700e-003	0.0698	0.0297	4.5000e-004		5.6400e-003	5.6400e-003		5.6400e-003	5.6400e-003	0.0000	167.2235	167.2235	6.5300e-003	2.5100e-003	168.1358
Mobile	0.2519	1.2208	3.3263	0.0131	1.1317	9.3400e-003	1.1411	0.3033	8.6800e-003	0.3119	0.0000	1,214.5840	1,214.5840	0.0555	0.0000	1,215.9710
Waste						0.0000	0.0000		0.0000	0.0000	3.1514	0.0000	3.1514	0.1862	0.0000	7.8076
Water						0.0000	0.0000		0.0000	0.0000	2.2324	34.0796	36.3120	0.2313	5.8200e-003	43.8279
Total	0.8371	1.3318	4.7600	0.0138	1.1317	0.0247	1.1564	0.3033	0.0241	0.3273	5.3838	1,447.3394	1,452.7232	0.4823	8.8600e-003	1,467.4227

	ROG	NOx	CO	SO2	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	35.35	8.84	20.47	22.11	11.80	84.14	19.64	11.80	84.49	34.41	81.89	15.76	16.88	58.12	28.55	17.57

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2021	11/15/2021	5	32	
2	Trenching	Trenching	11/16/2021	1/14/2022	5	44	
3	Building Construction	Building Construction	1/17/2022	12/29/2023	5	510	
4	Architectural Coating	Architectural Coating	1/17/2022	12/29/2023	5	510	
5	Paving	Paving	3/1/2022	3/30/2022	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 7

Acres of Paving: 0.56

Residential Indoor: 273,375; Residential Outdoor: 91,125; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,488 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Off-Highway Trucks	1	9.00	402	0.38
Grading	Rubber Tired Dozers	0	9.00	247	0.40
Grading	Scrapers	2	9.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	9.00	97	0.37
Trenching	Excavators	1	9.00	158	0.38
Trenching	Off-Highway Trucks	2	9.00	402	0.38
Building Construction	Cranes	1	9.00	231	0.29
Building Construction	Forklifts	3	9.00	89	0.20
Building Construction	Generator Sets	1	9.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	9.00	97	0.37
Building Construction	Welders	1	9.00	46	0.45
Architectural Coating	Air Compressors	1	9.00	78	0.48
Paving	Pavers	2	9.00	130	0.42
Paving	Paving Equipment	2	9.00	132	0.36
Paving	Rollers	2	9.00	80	0.38

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	4	10.00	0.00	1,018.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	108.00	18.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	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

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.1100e-003	0.0000	4.1100e-003	4.6000e-004	0.0000	4.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0477	0.5142	0.3577	8.4000e-004		0.0205	0.0205		0.0188	0.0188	0.0000	73.7309	73.7309	0.0239	0.0000	74.3271
Total	0.0477	0.5142	0.3577	8.4000e-004	4.1100e-003	0.0205	0.0246	4.6000e-004	0.0188	0.0193	0.0000	73.7309	73.7309	0.0239	0.0000	74.3271

Cypress Town Center - South Coast AQMD Air District, Annual

3.2 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.7400e-003	0.1327	0.0281	3.9000e-004	8.7500e-003	4.0000e-004	9.1500e-003	2.4000e-003	3.8000e-004	2.7900e-003	0.0000	38.0070	38.0070	2.6000e-003	0.0000	38.0721
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	4.9000e-004	5.5800e-003	2.0000e-005	1.7600e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.5291	1.5291	4.0000e-005	0.0000	1.5301
Total	4.4100e-003	0.1332	0.0337	4.1000e-004	0.0105	4.1000e-004	0.0109	2.8700e-003	3.9000e-004	3.2700e-003	0.0000	39.5361	39.5361	2.6400e-003	0.0000	39.6021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.8500e-003	0.0000	1.8500e-003	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0219	0.6618	0.4591	8.4000e-004		0.0163	0.0163		0.0163	0.0163	0.0000	73.7308	73.7308	0.0239	0.0000	74.3270
Total	0.0219	0.6618	0.4591	8.4000e-004	1.8500e-003	0.0163	0.0182	2.1000e-004	0.0163	0.0165	0.0000	73.7308	73.7308	0.0239	0.0000	74.3270

Cypress Town Center - South Coast AQMD Air District, Annual

3.2 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.7400e-003	0.1327	0.0281	3.9000e-004	8.7500e-003	4.0000e-004	9.1500e-003	2.4000e-003	3.8000e-004	2.7900e-003	0.0000	38.0070	38.0070	2.6000e-003	0.0000	38.0721
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	4.9000e-004	5.5800e-003	2.0000e-005	1.7600e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.5291	1.5291	4.0000e-005	0.0000	1.5301
Total	4.4100e-003	0.1332	0.0337	4.1000e-004	0.0105	4.1000e-004	0.0109	2.8700e-003	3.9000e-004	3.2700e-003	0.0000	39.5361	39.5361	2.6400e-003	0.0000	39.6021

3.3 Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0276	0.2425	0.2004	6.0000e-004		9.3800e-003	9.3800e-003		8.6300e-003	8.6300e-003	0.0000	53.0428	53.0428	0.0172	0.0000	53.4717
Total	0.0276	0.2425	0.2004	6.0000e-004		9.3800e-003	9.3800e-003		8.6300e-003	8.6300e-003	0.0000	53.0428	53.0428	0.0172	0.0000	53.4717

Cypress Town Center - South Coast AQMD Air District, Annual

3.3 Trenching - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	8.4000e-004	9.4800e-003	3.0000e-005	5.5700e-003	2.0000e-005	5.5900e-003	1.4300e-003	2.0000e-005	1.4500e-003	0.0000	2.5994	2.5994	7.0000e-005	0.0000	2.6011
Total	1.1300e-003	8.4000e-004	9.4800e-003	3.0000e-005	5.5700e-003	2.0000e-005	5.5900e-003	1.4300e-003	2.0000e-005	1.4500e-003	0.0000	2.5994	2.5994	7.0000e-005	0.0000	2.6011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0162	0.4750	0.3429	6.0000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	53.0427	53.0427	0.0172	0.0000	53.4716
Total	0.0162	0.4750	0.3429	6.0000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	53.0427	53.0427	0.0172	0.0000	53.4716

Cypress Town Center - South Coast AQMD Air District, Annual

3.3 Trenching - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	8.4000e-004	9.4800e-003	3.0000e-005	5.5700e-003	2.0000e-005	5.5900e-003	1.4300e-003	2.0000e-005	1.4500e-003	0.0000	2.5994	2.5994	7.0000e-005	0.0000	2.6011
Total	1.1300e-003	8.4000e-004	9.4800e-003	3.0000e-005	5.5700e-003	2.0000e-005	5.5900e-003	1.4300e-003	2.0000e-005	1.4500e-003	0.0000	2.5994	2.5994	7.0000e-005	0.0000	2.6011

3.3 Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0800e-003	0.0552	0.0561	1.8000e-004		2.1300e-003	2.1300e-003		1.9600e-003	1.9600e-003	0.0000	15.6046	15.6046	5.0500e-003	0.0000	15.7308
Total	7.0800e-003	0.0552	0.0561	1.8000e-004		2.1300e-003	2.1300e-003		1.9600e-003	1.9600e-003	0.0000	15.6046	15.6046	5.0500e-003	0.0000	15.7308

Cypress Town Center - South Coast AQMD Air District, Annual

3.3 Trenching - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.2000e-004	2.5700e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6400e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	0.7371	0.7371	2.0000e-005	0.0000	0.7376
Total	3.1000e-004	2.2000e-004	2.5700e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6400e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	0.7371	0.7371	2.0000e-005	0.0000	0.7376

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7700e-003	0.1397	0.1008	1.8000e-004		3.4300e-003	3.4300e-003		3.4300e-003	3.4300e-003	0.0000	15.6046	15.6046	5.0500e-003	0.0000	15.7308
Total	4.7700e-003	0.1397	0.1008	1.8000e-004		3.4300e-003	3.4300e-003		3.4300e-003	3.4300e-003	0.0000	15.6046	15.6046	5.0500e-003	0.0000	15.7308

Cypress Town Center - South Coast AQMD Air District, Annual

3.3 Trenching - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.2000e-004	2.5700e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6400e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	0.7371	0.7371	2.0000e-005	0.0000	0.7376
Total	3.1000e-004	2.2000e-004	2.5700e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6400e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	0.7371	0.7371	2.0000e-005	0.0000	0.7376

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2552	2.3579	2.4524	4.0500e-003		0.1216	0.1216		0.1142	0.1142	0.0000	349.1863	349.1863	0.0856	0.0000	351.3266
Total	0.2552	2.3579	2.4524	4.0500e-003		0.1216	0.1216		0.1142	0.1142	0.0000	349.1863	349.1863	0.0856	0.0000	351.3266

Cypress Town Center - South Coast AQMD Air District, Annual

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-003	0.2064	0.0510	5.6000e-004	0.0142	3.8000e-004	0.0146	4.0900e-003	3.6000e-004	4.4600e-003	0.0000	54.4493	54.4493	3.3400e-003	0.0000	54.5329
Worker	0.0528	0.0376	0.4344	1.3800e-003	0.1481	1.0800e-003	0.1492	0.0393	9.9000e-004	0.0403	0.0000	124.3886	124.3886	3.1200e-003	0.0000	124.4667
Total	0.0588	0.2440	0.4854	1.9400e-003	0.1623	1.4600e-003	0.1638	0.0434	1.3500e-003	0.0448	0.0000	178.8379	178.8379	6.4600e-003	0.0000	178.9996

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1622	3.5571	2.6910	4.0500e-003		0.1353	0.1353		0.1353	0.1353	0.0000	349.1859	349.1859	0.0856	0.0000	351.3261
Total	0.1622	3.5571	2.6910	4.0500e-003		0.1353	0.1353		0.1353	0.1353	0.0000	349.1859	349.1859	0.0856	0.0000	351.3261

Cypress Town Center - South Coast AQMD Air District, Annual

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-003	0.2064	0.0510	5.6000e-004	0.0142	3.8000e-004	0.0146	4.0900e-003	3.6000e-004	4.4600e-003	0.0000	54.4493	54.4493	3.3400e-003	0.0000	54.5329
Worker	0.0528	0.0376	0.4344	1.3800e-003	0.1481	1.0800e-003	0.1492	0.0393	9.9000e-004	0.0403	0.0000	124.3886	124.3886	3.1200e-003	0.0000	124.4667
Total	0.0588	0.2440	0.4854	1.9400e-003	0.1623	1.4600e-003	0.1638	0.0434	1.3500e-003	0.0448	0.0000	178.8379	178.8379	6.4600e-003	0.0000	178.9996

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2447	2.2578	2.5316	4.2200e-003		0.1094	0.1094		0.1028	0.1028	0.0000	363.2866	363.2866	0.0885	0.0000	365.4990
Total	0.2447	2.2578	2.5316	4.2200e-003		0.1094	0.1094		0.1028	0.1028	0.0000	363.2866	363.2866	0.0885	0.0000	365.4990

Cypress Town Center - South Coast AQMD Air District, Annual

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6600e-003	0.1615	0.0474	5.7000e-004	0.0148	1.8000e-004	0.0149	4.2600e-003	1.8000e-004	4.4300e-003	0.0000	54.9204	54.9204	3.0200e-003	0.0000	54.9960
Worker	0.0517	0.0353	0.4166	1.3800e-003	0.1540	1.0900e-003	0.1551	0.0409	1.0100e-003	0.0419	0.0000	124.5396	124.5396	2.9300e-003	0.0000	124.6128
Total	0.0564	0.1969	0.4640	1.9500e-003	0.1688	1.2700e-003	0.1701	0.0452	1.1900e-003	0.0463	0.0000	179.4600	179.4600	5.9500e-003	0.0000	179.6088

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1687	3.6994	2.7986	4.2200e-003		0.1407	0.1407		0.1407	0.1407	0.0000	363.2862	363.2862	0.0885	0.0000	365.4986
Total	0.1687	3.6994	2.7986	4.2200e-003		0.1407	0.1407		0.1407	0.1407	0.0000	363.2862	363.2862	0.0885	0.0000	365.4986

Cypress Town Center - South Coast AQMD Air District, Annual

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6600e-003	0.1615	0.0474	5.7000e-004	0.0148	1.8000e-004	0.0149	4.2600e-003	1.8000e-004	4.4300e-003	0.0000	54.9204	54.9204	3.0200e-003	0.0000	54.9960
Worker	0.0517	0.0353	0.4166	1.3800e-003	0.1540	1.0900e-003	0.1551	0.0409	1.0100e-003	0.0419	0.0000	124.5396	124.5396	2.9300e-003	0.0000	124.6128
Total	0.0564	0.1969	0.4640	1.9500e-003	0.1688	1.2700e-003	0.1701	0.0452	1.1900e-003	0.0463	0.0000	179.4600	179.4600	5.9500e-003	0.0000	179.6088

3.5 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2087					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0384	0.2641	0.3401	5.6000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	47.8735	47.8735	3.1200e-003	0.0000	47.9514
Total	0.2471	0.2641	0.3401	5.6000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	47.8735	47.8735	3.1200e-003	0.0000	47.9514

Cypress Town Center - South Coast AQMD Air District, Annual

3.5 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0108	7.6500e-003	0.0885	2.8000e-004	0.0302	2.2000e-004	0.0304	8.0100e-003	2.0000e-004	8.2200e-003	0.0000	25.3384	25.3384	6.4000e-004	0.0000	25.3543
Total	0.0108	7.6500e-003	0.0885	2.8000e-004	0.0302	2.2000e-004	0.0304	8.0100e-003	2.0000e-004	8.2200e-003	0.0000	25.3384	25.3384	6.4000e-004	0.0000	25.3543

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2087					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0214	0.4411	0.3436	5.6000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	47.8735	47.8735	3.1200e-003	0.0000	47.9514
Total	0.2301	0.4411	0.3436	5.6000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	47.8735	47.8735	3.1200e-003	0.0000	47.9514

Cypress Town Center - South Coast AQMD Air District, Annual

3.5 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0108	7.6500e-003	0.0885	2.8000e-004	0.0302	2.2000e-004	0.0304	8.0100e-003	2.0000e-004	8.2200e-003	0.0000	25.3384	25.3384	6.4000e-004	0.0000	25.3543
Total	0.0108	7.6500e-003	0.0885	2.8000e-004	0.0302	2.2000e-004	0.0304	8.0100e-003	2.0000e-004	8.2200e-003	0.0000	25.3384	25.3384	6.4000e-004	0.0000	25.3543

3.5 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2171					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0374	0.2541	0.3532	5.8000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	49.7885	49.7885	2.9800e-003	0.0000	49.8629
Total	0.2545	0.2541	0.3532	5.8000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	49.7885	49.7885	2.9800e-003	0.0000	49.8629

Cypress Town Center - South Coast AQMD Air District, Annual

3.5 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0105	7.2000e-003	0.0849	2.8000e-004	0.0314	2.2000e-004	0.0316	8.3300e-003	2.0000e-004	8.5400e-003	0.0000	25.3692	25.3692	6.0000e-004	0.0000	25.3841
Total	0.0105	7.2000e-003	0.0849	2.8000e-004	0.0314	2.2000e-004	0.0316	8.3300e-003	2.0000e-004	8.5400e-003	0.0000	25.3692	25.3692	6.0000e-004	0.0000	25.3841

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2171					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.4587	0.3573	5.8000e-004		0.0185	0.0185		0.0185	0.0185	0.0000	49.7884	49.7884	2.9800e-003	0.0000	49.8629
Total	0.2393	0.4587	0.3573	5.8000e-004		0.0185	0.0185		0.0185	0.0185	0.0000	49.7884	49.7884	2.9800e-003	0.0000	49.8629

Cypress Town Center - South Coast AQMD Air District, Annual

3.5 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0105	7.2000e-003	0.0849	2.8000e-004	0.0314	2.2000e-004	0.0316	8.3300e-003	2.0000e-004	8.5400e-003	0.0000	25.3692	25.3692	6.0000e-004	0.0000	25.3841
Total	0.0105	7.2000e-003	0.0849	2.8000e-004	0.0314	2.2000e-004	0.0316	8.3300e-003	2.0000e-004	8.5400e-003	0.0000	25.3692	25.3692	6.0000e-004	0.0000	25.3841

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	tons/yr										MT/yr					
Off-Road	0.0137	0.1377	0.1804	2.8000e-004		7.0300e-003	7.0300e-003		6.4700e-003	6.4700e-003	0.0000	24.7841	24.7841	8.0200e-003	0.0000	24.9845
Paving	7.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0144	0.1377	0.1804	2.8000e-004		7.0300e-003	7.0300e-003		6.4700e-003	6.4700e-003	0.0000	24.7841	24.7841	8.0200e-003	0.0000	24.9845

Cypress Town Center - South Coast AQMD Air District, Annual

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	4.6000e-004	5.3100e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.5203	1.5203	4.0000e-005	0.0000	1.5213
Total	6.5000e-004	4.6000e-004	5.3100e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.5203	1.5203	4.0000e-005	0.0000	1.5213

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0115	0.2489	0.2140	2.8000e-004		8.2500e-003	8.2500e-003		8.2500e-003	8.2500e-003	0.0000	24.7841	24.7841	8.0200e-003	0.0000	24.9845
Paving	7.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0123	0.2489	0.2140	2.8000e-004		8.2500e-003	8.2500e-003		8.2500e-003	8.2500e-003	0.0000	24.7841	24.7841	8.0200e-003	0.0000	24.9845

Cypress Town Center - South Coast AQMD Air District, Annual

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	4.6000e-004	5.3100e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.5203	1.5203	4.0000e-005	0.0000	1.5213
Total	6.5000e-004	4.6000e-004	5.3100e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.5203	1.5203	4.0000e-005	0.0000	1.5213

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Pedestrian Network

Cypress Town Center - South Coast AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2519	1.2208	3.3263	0.0131	1.1317	9.3400e-003	1.1411	0.3033	8.6800e-003	0.3119	0.0000	1,214.5840	1,214.5840	0.0555	0.0000	1,215.9710
Unmitigated	0.2657	1.3002	3.6868	0.0148	1.2831	0.0105	1.2936	0.3438	9.7200e-003	0.3535	0.0000	1,365.9955	1,365.9955	0.0614	0.0000	1,367.5313

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	988.20	988.20	988.20	3,376,830	2,978,364
Parking Lot	0.00	0.00	0.00		
Total	988.20	988.20	988.20	3,376,830	2,978,364

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
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Parking Lot	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

Cypress Town Center - South Coast AQMD Air District, Annual

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable 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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	86.4155	86.4155	4.9900e-003	1.0300e-003	86.8475
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	154.9089	154.9089	8.9400e-003	1.8500e-003	155.6833
NaturalGas Mitigated	8.1700e-003	0.0698	0.0297	4.5000e-004		5.6400e-003	5.6400e-003		5.6400e-003	5.6400e-003	0.0000	80.8080	80.8080	1.5500e-003	1.4800e-003	81.2882
NaturalGas Unmitigated	0.0128	0.1098	0.0467	7.0000e-004		8.8700e-003	8.8700e-003		8.8700e-003	8.8700e-003	0.0000	127.1211	127.1211	2.4400e-003	2.3300e-003	127.8766

Cypress Town Center - South Coast AQMD Air District, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	2.38216e+006	0.0128	0.1098	0.0467	7.0000e-004		8.8700e-003	8.8700e-003		8.8700e-003	8.8700e-003	0.0000	127.1211	127.1211	2.4400e-003	2.3300e-003	127.8766
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0128	0.1098	0.0467	7.0000e-004		8.8700e-003	8.8700e-003		8.8700e-003	8.8700e-003	0.0000	127.1211	127.1211	2.4400e-003	2.3300e-003	127.8766

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	1.51429e+006	8.1700e-003	0.0698	0.0297	4.5000e-004		5.6400e-003	5.6400e-003		5.6400e-003	5.6400e-003	0.0000	80.8080	80.8080	1.5500e-003	1.4800e-003	81.2882
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		8.1700e-003	0.0698	0.0297	4.5000e-004		5.6400e-003	5.6400e-003		5.6400e-003	5.6400e-003	0.0000	80.8080	80.8080	1.5500e-003	1.4800e-003	81.2882

Cypress Town Center - South Coast AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	670750	152.9298	8.8200e-003	1.8300e-003	153.6944
Parking Lot	8680	1.9790	1.1000e-004	2.0000e-005	1.9889
Total		154.9089	8.9300e-003	1.8500e-003	155.6833

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	377499	86.0692	4.9700e-003	1.0300e-003	86.4995
Parking Lot	1519	0.3463	2.0000e-005	0.0000	0.3481
Total		86.4155	4.9900e-003	1.0300e-003	86.8475

6.0 Area Detail

6.1 Mitigation Measures Area

Cypress Town Center - South Coast AQMD Air District, Annual

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5770	0.0413	1.4040	2.3000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003	0.0000	31.4524	31.4524	2.7500e-003	5.3000e-004	31.6805
Unmitigated	1.0162	0.0511	2.2515	2.2600e-003		0.1366	0.1366		0.1366	0.1366	14.3396	29.8314	44.1710	0.0450	9.7000e-004	45.5849

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0426					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4894					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.4422	0.0350	0.8582	2.1900e-003		0.1289	0.1289		0.1289	0.1289	14.3396	27.5557	41.8953	0.0428	9.7000e-004	43.2544
Landscaping	0.0420	0.0161	1.3933	7.0000e-005		7.7100e-003	7.7100e-003		7.7100e-003	7.7100e-003	0.0000	2.2757	2.2757	2.1900e-003	0.0000	2.3305
Total	1.0162	0.0511	2.2515	2.2600e-003		0.1366	0.1366		0.1366	0.1366	14.3396	29.8314	44.1710	0.0450	9.7000e-004	45.5849

Cypress Town Center - South Coast AQMD Air District, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0426					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4894					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.9500e-003	0.0252	0.0107	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	29.1767	29.1767	5.6000e-004	5.3000e-004	29.3500
Landscaping	0.0420	0.0161	1.3933	7.0000e-005		7.7100e-003	7.7100e-003		7.7100e-003	7.7100e-003	0.0000	2.2757	2.2757	2.1900e-003	0.0000	2.3305
Total	0.5770	0.0413	1.4040	2.3000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003	0.0000	31.4524	31.4524	2.7500e-003	5.3000e-004	31.6805

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

Cypress Town Center - South Coast AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	36.3120	0.2313	5.8200e-003	43.8279
Unmitigated	42.9494	0.2889	7.2500e-003	52.3322

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	8.79579 / 5.54517	42.9494	0.2889	7.2500e-003	52.3322
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		42.9494	0.2889	7.2500e-003	52.3322

Cypress Town Center - South Coast AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	7.03663 / 5.20692	36.3120	0.2313	5.8200e-003	43.8279
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		36.3120	0.2313	5.8200e-003	43.8279

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Cypress Town Center - South Coast AQMD Air District, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.1514	0.1862	0.0000	7.8076
Unmitigated	12.6057	0.7450	0.0000	31.2302

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	62.1	12.6057	0.7450	0.0000	31.2302
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		12.6057	0.7450	0.0000	31.2302

Cypress Town Center - South Coast AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	15.525	3.1514	0.1862	0.0000	7.8076
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		3.1514	0.1862	0.0000	7.8076

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Cypress Town Center - South Coast AQMD Air District, Annual

Cypress Town Center - South Coast AQMD Air District, Summer

Cypress Town Center
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	62.00	Space	0.56	24,800.00	0
Condo/Townhouse	135.00	Dwelling Unit	6.44	135,000.00	386

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	502.65	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Cypress Town Center - South Coast AQMD Air District, Summer

Project Characteristics - CO2 Intensity Factor is based on 2020 forecast in City of Cypress General Plan, 33% RPS, Cap and Trade, and reduction in SF6.

Land Use - The 135 multi-family residential homes would include 56 two-story condominiums in 79 three-story row townhomes. A two-car side-by-side garage would be provided for each unit and there would be 62 open guest spaces provided within the project site.

Construction Phase - Based on construction information provided by Project Applicant.

Off-road Equipment - Default architectural coating equipment.

Off-road Equipment - Default building construction equipment.

Off-road Equipment - Based on construction information provided by Project Applicant.1

Off-road Equipment - Default paving equipment.

Off-road Equipment - Based on construction information provided by Project Applicant.

Trips and VMT - For soil import haul trips, assuming 14 cubic yards of material per load based on construction information provided by Project Applicant.

Grading - Construction of the proposed project would require approximately 33,030 cubic yards (cy) of cut and 40,155 cy of fill, resulting in a net import of approximately 7,125 cy of material.

Vehicle Trips - Based on trip generation prepared for the project.

Construction Off-road Equipment Mitigation - Assuming compliance with SCAQMD Rule 402 and tier 2 construction equipment.

Mobile Land Use Mitigation -

Area Mitigation - Assuming only natural gas hearth.

Energy Mitigation - Assuming compliance with 2019 Title 24 standards, installation of high efficiency lighting and appliances, and 30% of electricity generated is from on-site renewable energy.

Water Mitigation - Assuming installation of low-flow appliances and use of water-efficient irrigation systems.

Waste Mitigation - Consistent with the CalRecycle Waste Diversion and Recycling Mandate which will reduce solid waste production by 75 percent.

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Cypress Town Center - South Coast AQMD Air District, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	20.00	510.00
tblConstructionPhase	NumDays	230.00	510.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	AcresOfGrading	72.00	7.00
tblGrading	MaterialImported	0.00	7,125.00
tblLandUse	LotAcreage	8.44	6.44
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Cypress Town Center - South Coast AQMD Air District, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	9.00
tblOffRoadEquipment	UsageHours	7.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	7.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	502.65
tblTripsAndVMT	HaulingTripNumber	891.00	1,018.00
tblVehicleTrips	ST_TR	5.67	7.32
tblVehicleTrips	SU_TR	4.84	7.32
tblVehicleTrips	WD_TR	5.81	7.32

2.0 Emissions Summary

Cypress Town Center - South Coast AQMD Air District, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.2566	40.2109	24.4386	0.0780	0.9248	1.3056	2.2304	0.2108	1.2020	1.4129	0.0000	7,829.3649	7,829.3649	1.8219	0.0000	7,874.9124
2022	5.9466	35.4793	44.1786	0.0826	1.7360	1.7486	3.4846	0.4630	1.6377	2.1007	0.0000	8,019.3920	8,019.3920	1.6533	0.0000	8,060.7240
2023	4.3590	20.8448	26.7194	0.0547	1.5683	0.9593	2.5276	0.4185	0.9076	1.3262	0.0000	5,310.2659	5,310.2659	0.8321	0.0000	5,331.0685
Maximum	5.9466	40.2109	44.1786	0.0826	1.7360	1.7486	3.4846	0.4630	1.6377	2.1007	0.0000	8,019.3920	8,019.3920	1.8219	0.0000	8,060.7240

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.6394	49.4400	30.7713	0.0780	0.7834	1.0444	1.8278	0.1950	1.0433	1.2382	0.0000	7,829.3649	7,829.3649	1.8219	0.0000	7,874.9124
2022	4.8733	56.6025	49.1704	0.0826	1.7360	1.9899	3.7259	0.4630	1.9889	2.4519	0.0000	8,019.3920	8,019.3920	1.6533	0.0000	8,060.7240
2023	3.6571	33.5082	28.8056	0.0547	1.5683	1.2365	2.8048	0.4185	1.2357	1.6542	0.0000	5,310.2659	5,310.2659	0.8321	0.0000	5,331.0685
Maximum	4.8733	56.6025	49.1704	0.0826	1.7360	1.9899	3.7259	0.4630	1.9889	2.4519	0.0000	8,019.3920	8,019.3920	1.8219	0.0000	8,060.7240

Cypress Town Center - 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	25.01	-44.56	-14.07	0.00	3.34	-6.41	-1.41	1.45	-13.89	-10.43	0.00	0.00	0.00	0.00	0.00	0.00

Cypress Town Center - 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	38.6262	2.9295	79.8010	0.1757		10.3741	10.3741		10.3741	10.3741	1,264.5340	2,450.0681	3,714.6021	3.7904	0.0858	3,834.9389
Energy	0.0704	0.6015	0.2559	3.8400e-003		0.0486	0.0486		0.0486	0.0486		767.8195	767.8195	0.0147	0.0141	772.3823
Mobile	1.5732	6.8870	21.3786	0.0845	7.1804	0.0574	7.2377	1.9211	0.0534	1.9745		8,606.6777	8,606.6777	0.3752		8,616.0571
Total	40.2698	10.4180	101.4355	0.2641	7.1804	10.4801	17.6605	1.9211	10.4761	12.3972	1,264.5340	11,824.5654	13,089.0994	4.1803	0.0999	13,223.3782

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	3.4872	2.1439	12.0041	0.0135		0.2246	0.2246		0.2246	0.2246	0.0000	2,593.0093	2,593.0093	0.0686	0.0472	2,608.7820
Energy	0.0447	0.3823	0.1627	2.4400e-003		0.0309	0.0309		0.0309	0.0309		488.0854	488.0854	9.3500e-003	8.9500e-003	490.9859
Mobile	1.4957	6.4842	19.2135	0.0751	6.3331	0.0513	6.3843	1.6944	0.0477	1.7421		7,652.9218	7,652.9218	0.3383		7,661.3784
Total	5.0276	9.0104	31.3803	0.0910	6.3331	0.3068	6.6399	1.6944	0.3032	1.9976	0.0000	10,734.0165	10,734.0165	0.4163	0.0561	10,761.1463

Cypress Town Center - 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	87.52	13.51	69.06	65.54	11.80	97.07	62.40	11.80	97.11	83.89	100.00	9.22	17.99	90.04	43.83	18.62

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2021	11/15/2021	5	32	
2	Trenching	Trenching	11/16/2021	1/14/2022	5	44	
3	Building Construction	Building Construction	1/17/2022	12/29/2023	5	510	
4	Architectural Coating	Architectural Coating	1/17/2022	12/29/2023	5	510	
5	Paving	Paving	3/1/2022	3/30/2022	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 7

Acres of Paving: 0.56

Residential Indoor: 273,375; Residential Outdoor: 91,125; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,488 (Architectural Coating – sqft)

OffRoad Equipment

Cypress Town Center - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Off-Highway Trucks	1	9.00	402	0.38
Grading	Rubber Tired Dozers	0	9.00	247	0.40
Grading	Scrapers	2	9.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	9.00	97	0.37
Trenching	Excavators	1	9.00	158	0.38
Trenching	Off-Highway Trucks	2	9.00	402	0.38
Building Construction	Cranes	1	9.00	231	0.29
Building Construction	Forklifts	3	9.00	89	0.20
Building Construction	Generator Sets	1	9.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	9.00	97	0.37
Building Construction	Welders	1	9.00	46	0.45
Architectural Coating	Air Compressors	1	9.00	78	0.48
Paving	Pavers	2	9.00	130	0.42
Paving	Paving Equipment	2	9.00	132	0.36
Paving	Rollers	2	9.00	80	0.38

Trips and VMT

Cypress Town Center - 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
Grading	4	10.00	0.00	1,018.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	108.00	18.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	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

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2572	0.0000	0.2572	0.0289	0.0000	0.0289			0.0000			0.0000
Off-Road	2.9836	32.1353	22.3582	0.0525		1.2798	1.2798		1.1774	1.1774		5,079.6519	5,079.6519	1.6429		5,120.7234
Total	2.9836	32.1353	22.3582	0.0525	0.2572	1.2798	1.5370	0.0289	1.1774	1.2063		5,079.6519	5,079.6519	1.6429		5,120.7234

Cypress Town Center - South Coast AQMD Air District, Summer

3.2 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2308	8.0482	1.7036	0.0244	0.5559	0.0250	0.5808	0.1523	0.0239	0.1762		2,638.9727	2,638.9727	0.1761		2,643.3742
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0422	0.0274	0.3767	1.1100e-003	0.1118	8.2000e-004	0.1126	0.0296	7.6000e-004	0.0304		110.7403	110.7403	2.9800e-003		110.8148
Total	0.2730	8.0756	2.0804	0.0255	0.6677	0.0258	0.6934	0.1820	0.0246	0.2066		2,749.7131	2,749.7131	0.1790		2,754.1890

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1157	0.0000	0.1157	0.0130	0.0000	0.0130			0.0000			0.0000
Off-Road	1.3664	41.3644	28.6910	0.0525		1.0186	1.0186		1.0186	1.0186	0.0000	5,079.6519	5,079.6519	1.6429		5,120.7234
Total	1.3664	41.3644	28.6910	0.0525	0.1157	1.0186	1.1344	0.0130	1.0186	1.0316	0.0000	5,079.6519	5,079.6519	1.6429		5,120.7234

Cypress Town Center - South Coast AQMD Air District, Summer

3.2 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2308	8.0482	1.7036	0.0244	0.5559	0.0250	0.5808	0.1523	0.0239	0.1762		2,638.9727	2,638.9727	0.1761		2,643.3742
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0422	0.0274	0.3767	1.1100e-003	0.1118	8.2000e-004	0.1126	0.0296	7.6000e-004	0.0304		110.7403	110.7403	2.9800e-003		110.8148
Total	0.2730	8.0756	2.0804	0.0255	0.6677	0.0258	0.6934	0.1820	0.0246	0.2066		2,749.7131	2,749.7131	0.1790		2,754.1890

3.3 Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6211	14.2652	11.7906	0.0355		0.5519	0.5519		0.5077	0.5077		3,439.3927	3,439.3927	1.1124		3,467.2019
Total	1.6211	14.2652	11.7906	0.0355		0.5519	0.5519		0.5077	0.5077		3,439.3927	3,439.3927	1.1124		3,467.2019

Cypress Town Center - South Coast AQMD Air District, Summer

3.3 Trenching - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0438	0.6028	1.7800e-003	0.3343	1.3200e-003	0.3356	0.0856	1.2100e-003	0.0868		177.1845	177.1845	4.7600e-003		177.3037
Total	0.0675	0.0438	0.6028	1.7800e-003	0.3343	1.3200e-003	0.3356	0.0856	1.2100e-003	0.0868		177.1845	177.1845	4.7600e-003		177.3037

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9538	27.9427	20.1690	0.0355		0.6859	0.6859		0.6859	0.6859	0.0000	3,439.3927	3,439.3927	1.1124		3,467.2019
Total	0.9538	27.9427	20.1690	0.0355		0.6859	0.6859		0.6859	0.6859	0.0000	3,439.3927	3,439.3927	1.1124		3,467.2019

Cypress Town Center - South Coast AQMD Air District, Summer

3.3 Trenching - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0438	0.6028	1.7800e-003	0.3343	1.3200e-003	0.3356	0.0856	1.2100e-003	0.0868		177.1845	177.1845	4.7600e-003		177.3037
Total	0.0675	0.0438	0.6028	1.7800e-003	0.3343	1.3200e-003	0.3356	0.0856	1.2100e-003	0.0868		177.1845	177.1845	4.7600e-003		177.3037

3.3 Trenching - 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	1.4167	11.0300	11.2192	0.0355		0.4251	0.4251		0.3911	0.3911		3,440.2341	3,440.2341	1.1126		3,468.0501
Total	1.4167	11.0300	11.2192	0.0355		0.4251	0.4251		0.3911	0.3911		3,440.2341	3,440.2341	1.1126		3,468.0501

Cypress Town Center - South Coast AQMD Air District, Summer

3.3 Trenching - 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	0.0634	0.0396	0.5574	1.7100e-003	0.3343	1.2800e-003	0.3356	0.0856	1.1800e-003	0.0868		170.8358	170.8358	4.3100e-003		170.9435
Total	0.0634	0.0396	0.5574	1.7100e-003	0.3343	1.2800e-003	0.3356	0.0856	1.1800e-003	0.0868		170.8358	170.8358	4.3100e-003		170.9435

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9538	27.9427	20.1690	0.0355		0.6859	0.6859		0.6859	0.6859	0.0000	3,440.2341	3,440.2341	1.1126		3,468.0501
Total	0.9538	27.9427	20.1690	0.0355		0.6859	0.6859		0.6859	0.6859	0.0000	3,440.2341	3,440.2341	1.1126		3,468.0501

Cypress Town Center - South Coast AQMD Air District, Summer

3.3 Trenching - 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	0.0634	0.0396	0.5574	1.7100e-003	0.3343	1.2800e-003	0.3356	0.0856	1.1800e-003	0.0868		170.8358	170.8358	4.3100e-003		170.9435
Total	0.0634	0.0396	0.5574	1.7100e-003	0.3343	1.2800e-003	0.3356	0.0856	1.1800e-003	0.0868		170.8358	170.8358	4.3100e-003		170.9435

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0415	18.8629	19.6191	0.0324		0.9726	0.9726		0.9138	0.9138		3,079.2960	3,079.2960	0.7550		3,098.1699
Total	2.0415	18.8629	19.6191	0.0324		0.9726	0.9726		0.9138	0.9138		3,079.2960	3,079.2960	0.7550		3,098.1699

Cypress Town Center - South Coast AQMD Air District, Summer

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0470	1.6296	0.3850	4.5500e-003	0.1152	3.0000e-003	0.1182	0.0332	2.8600e-003	0.0360		486.1064	486.1064	0.0286		486.8204
Worker	0.4276	0.2671	3.7622	0.0116	1.2072	8.6300e-003	1.2158	0.3202	7.9500e-003	0.3281		1,153.1419	1,153.1419	0.0291		1,153.8685
Total	0.4746	1.8967	4.1472	0.0161	1.3224	0.0116	1.3340	0.3533	0.0108	0.3641		1,639.2483	1,639.2483	0.0576		1,640.6889

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	1.2973	28.4567	21.5280	0.0324		1.0824	1.0824		1.0824	1.0824	0.0000	3,079.2960	3,079.2960	0.7550		3,098.1699
Total	1.2973	28.4567	21.5280	0.0324		1.0824	1.0824		1.0824	1.0824	0.0000	3,079.2960	3,079.2960	0.7550		3,098.1699

Cypress Town Center - South Coast AQMD Air District, Summer

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0470	1.6296	0.3850	4.5500e-003	0.1152	3.0000e-003	0.1182	0.0332	2.8600e-003	0.0360		486.1064	486.1064	0.0286		486.8204
Worker	0.4276	0.2671	3.7622	0.0116	1.2072	8.6300e-003	1.2158	0.3202	7.9500e-003	0.3281		1,153.1419	1,153.1419	0.0291		1,153.8685
Total	0.4746	1.8967	4.1472	0.0161	1.3224	0.0116	1.3340	0.3533	0.0108	0.3641		1,639.2483	1,639.2483	0.0576		1,640.6889

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8826	17.3674	19.4738	0.0324		0.8416	0.8416		0.7908	0.7908		3,080.4227	3,080.4227	0.7504		3,099.1824
Total	1.8826	17.3674	19.4738	0.0324		0.8416	0.8416		0.7908	0.7908		3,080.4227	3,080.4227	0.7504		3,099.1824

Cypress Town Center - South Coast AQMD Air District, Summer

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0350	1.2320	0.3469	4.4100e-003	0.1152	1.3900e-003	0.1166	0.0332	1.3200e-003	0.0345		471.3619	471.3619	0.0249		471.9844
Worker	0.4021	0.2417	3.4743	0.0111	1.2072	8.4100e-003	1.2156	0.3202	7.7400e-003	0.3279		1,110.1646	1,110.1646	0.0262		1,110.8200
Total	0.4371	1.4737	3.8212	0.0156	1.3224	9.8000e-003	1.3322	0.3533	9.0600e-003	0.3624		1,581.5265	1,581.5265	0.0511		1,582.8044

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	1.2973	28.4567	21.5280	0.0324		1.0824	1.0824		1.0824	1.0824	0.0000	3,080.4227	3,080.4227	0.7504		3,099.1824
Total	1.2973	28.4567	21.5280	0.0324		1.0824	1.0824		1.0824	1.0824	0.0000	3,080.4227	3,080.4227	0.7504		3,099.1824

Cypress Town Center - South Coast AQMD Air District, Summer

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0350	1.2320	0.3469	4.4100e-003	0.1152	1.3900e-003	0.1166	0.0332	1.3200e-003	0.0345		471.3619	471.3619	0.0249		471.9844
Worker	0.4021	0.2417	3.4743	0.0111	1.2072	8.4100e-003	1.2156	0.3202	7.7400e-003	0.3279		1,110.1646	1,110.1646	0.0262		1,110.8200
Total	0.4371	1.4737	3.8212	0.0156	1.3224	9.8000e-003	1.3322	0.3533	9.0600e-003	0.3624		1,581.5265	1,581.5265	0.0511		1,582.8044

3.5 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	1.6699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3068	2.1127	2.7204	4.4600e-003		0.1226	0.1226		0.1226	0.1226		422.1721	422.1721	0.0275		422.8592
Total	1.9767	2.1127	2.7204	4.4600e-003		0.1226	0.1226		0.1226	0.1226		422.1721	422.1721	0.0275		422.8592

Cypress Town Center - South Coast AQMD Air District, Summer

3.5 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	0.0871	0.0544	0.7664	2.3600e-003	0.2459	1.7600e-003	0.2477	0.0652	1.6200e-003	0.0668		234.8993	234.8993	5.9200e-003		235.0473
Total	0.0871	0.0544	0.7664	2.3600e-003	0.2459	1.7600e-003	0.2477	0.0652	1.6200e-003	0.0668		234.8993	234.8993	5.9200e-003		235.0473

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	1.6699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	3.5286	2.7486	4.4600e-003		0.1426	0.1426		0.1426	0.1426	0.0000	422.1721	422.1721	0.0275		422.8592
Total	1.8407	3.5286	2.7486	4.4600e-003		0.1426	0.1426		0.1426	0.1426	0.0000	422.1721	422.1721	0.0275		422.8592

Cypress Town Center - South Coast AQMD Air District, Summer

3.5 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	0.0871	0.0544	0.7664	2.3600e-003	0.2459	1.7600e-003	0.2477	0.0652	1.6200e-003	0.0668		234.8993	234.8993	5.9200e-003		235.0473
Total	0.0871	0.0544	0.7664	2.3600e-003	0.2459	1.7600e-003	0.2477	0.0652	1.6200e-003	0.0668		234.8993	234.8993	5.9200e-003		235.0473

3.5 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.6699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2875	1.9545	2.7167	4.4600e-003		0.1062	0.1062		0.1062	0.1062		422.1721	422.1721	0.0253		422.8035
Total	1.9573	1.9545	2.7167	4.4600e-003		0.1062	0.1062		0.1062	0.1062		422.1721	422.1721	0.0253		422.8035

Cypress Town Center - South Coast AQMD Air District, Summer

3.5 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0819	0.0492	0.7077	2.2700e-003	0.2459	1.7100e-003	0.2476	0.0652	1.5800e-003	0.0668		226.1446	226.1446	5.3400e-003		226.2781
Total	0.0819	0.0492	0.7077	2.2700e-003	0.2459	1.7100e-003	0.2476	0.0652	1.5800e-003	0.0668		226.1446	226.1446	5.3400e-003		226.2781

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	1.6699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	3.5286	2.7486	4.4600e-003		0.1426	0.1426		0.1426	0.1426	0.0000	422.1721	422.1721	0.0253		422.8035
Total	1.8407	3.5286	2.7486	4.4600e-003		0.1426	0.1426		0.1426	0.1426	0.0000	422.1721	422.1721	0.0253		422.8035

Cypress Town Center - South Coast AQMD Air District, Summer

3.5 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0819	0.0492	0.7077	2.2700e-003	0.2459	1.7100e-003	0.2476	0.0652	1.5800e-003	0.0668		226.1446	226.1446	5.3400e-003		226.2781
Total	0.0819	0.0492	0.7077	2.2700e-003	0.2459	1.7100e-003	0.2476	0.0652	1.5800e-003	0.0668		226.1446	226.1446	5.3400e-003		226.2781

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	1.2407	12.5155	16.4030	0.0257		0.6389	0.6389		0.5878	0.5878		2,483.6178	2,483.6178	0.8033		2,503.6991
Paving	0.0667					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3074	12.5155	16.4030	0.0257		0.6389	0.6389		0.5878	0.5878		2,483.6178	2,483.6178	0.8033		2,503.6991

Cypress Town Center - 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	1.0474	22.6290	19.4576	0.0257		0.7503	0.7503		0.7503	0.7503	0.0000	2,483.6178	2,483.6178	0.8033		2,503.6991
Paving	0.0667					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1141	22.6290	19.4576	0.0257		0.7503	0.7503		0.7503	0.7503	0.0000	2,483.6178	2,483.6178	0.8033		2,503.6991

Cypress Town Center - 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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Pedestrian Network

Cypress Town Center - 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	1.4957	6.4842	19.2135	0.0751	6.3331	0.0513	6.3843	1.6944	0.0477	1.7421		7,652.9218	7,652.9218	0.3383		7,661.3784
Unmitigated	1.5732	6.8870	21.3786	0.0845	7.1804	0.0574	7.2377	1.9211	0.0534	1.9745		8,606.6777	8,606.6777	0.3752		8,616.0571

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	988.20	988.20	988.20	3,376,830	2,978,364
Parking Lot	0.00	0.00	0.00		
Total	988.20	988.20	988.20	3,376,830	2,978,364

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
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Parking Lot	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

Cypress Town Center - South Coast AQMD Air District, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable 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	0.0447	0.3823	0.1627	2.4400e-003		0.0309	0.0309		0.0309	0.0309		488.0854	488.0854	9.3500e-003	8.9500e-003	490.9859
NaturalGas Unmitigated	0.0704	0.6015	0.2559	3.8400e-003		0.0486	0.0486		0.0486	0.0486		767.8195	767.8195	0.0147	0.0141	772.3823

Cypress Town Center - 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					
Condo/Townhouse	6526.47	0.0704	0.6015	0.2559	3.8400e-003		0.0486	0.0486		0.0486	0.0486		767.8195	767.8195	0.0147	0.0141	772.3823
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0704	0.6015	0.2559	3.8400e-003		0.0486	0.0486		0.0486	0.0486		767.8195	767.8195	0.0147	0.0141	772.3823

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					
Condo/Townhouse	4.14873	0.0447	0.3823	0.1627	2.4400e-003		0.0309	0.0309		0.0309	0.0309		488.0854	488.0854	9.3500e-003	8.9500e-003	490.9859
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0447	0.3823	0.1627	2.4400e-003		0.0309	0.0309		0.0309	0.0309		488.0854	488.0854	9.3500e-003	8.9500e-003	490.9859

6.0 Area Detail

6.1 Mitigation Measures Area

Cypress Town Center - South Coast AQMD Air District, Summer

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4872	2.1439	12.0041	0.0135		0.2246	0.2246		0.2246	0.2246	0.0000	2,593.0093	2,593.0093	0.0686	0.0472	2,608.7820
Unmitigated	38.6262	2.9295	79.8010	0.1757		10.3741	10.3741		10.3741	10.3741	1,264.5340	2,450.0681	3,714.6021	3.7904	0.0858	3,834.9389

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	0.2333					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	35.3749	2.8010	68.6545	0.1751		10.3124	10.3124		10.3124	10.3124	1,264.5340	2,430.0000	3,694.5340	3.7711	0.0858	3,814.3877
Landscaping	0.3362	0.1285	11.1465	5.9000e-004		0.0617	0.0617		0.0617	0.0617		20.0681	20.0681	0.0193		20.5511
Total	38.6262	2.9295	79.8010	0.1757		10.3741	10.3741		10.3741	10.3741	1,264.5340	2,450.0681	3,714.6021	3.7904	0.0858	3,834.9389

Cypress Town Center - 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	0.2333					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2359	2.0155	0.8577	0.0129		0.1630	0.1630		0.1630	0.1630	0.0000	2,572.9412	2,572.9412	0.0493	0.0472	2,588.2309
Landscaping	0.3362	0.1285	11.1465	5.9000e-004		0.0617	0.0617		0.0617	0.0617		20.0681	20.0681	0.0193		20.5511
Total	3.4872	2.1439	12.0041	0.0135		0.2246	0.2246		0.2246	0.2246	0.0000	2,593.0093	2,593.0093	0.0686	0.0472	2,608.7820

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Cypress Town Center - 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
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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

Cypress Town Center - South Coast AQMD Air District, Winter

Cypress Town Center
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	62.00	Space	0.56	24,800.00	0
Condo/Townhouse	135.00	Dwelling Unit	6.44	135,000.00	386

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	502.65	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Cypress Town Center - South Coast AQMD Air District, Winter

Project Characteristics - CO2 Intensity Factor is based on 2020 forecast in City of Cypress General Plan, 33% RPS, Cap and Trade, and reduction in SF6.

Land Use - The 135 multi-family residential homes would include 56 two-story condominiums in 79 three-story row townhomes. A two-car side-by-side garage would be provided for each unit and there would be 62 open guest spaces provided within the project site.

Construction Phase - Based on construction information provided by Project Applicant.

Off-road Equipment - Default architectural coating equipment.

Off-road Equipment - Default building construction equipment.

Off-road Equipment - Based on construction information provided by Project Applicant.1

Off-road Equipment - Default paving equipment.

Off-road Equipment - Based on construction information provided by Project Applicant.

Trips and VMT - For soil import haul trips, assuming 14 cubic yards of material per load based on construction information provided by Project Applicant.

Grading - Construction of the proposed project would require approximately 33,030 cubic yards (cy) of cut and 40,155 cy of fill, resulting in a net import of approximately 7,125 cy of material.

Vehicle Trips - Based on trip generation prepared for the project.

Construction Off-road Equipment Mitigation - Assuming compliance with SCAQMD Rule 402 and tier 2 construction equipment.

Mobile Land Use Mitigation -

Area Mitigation - Assuming only natural gas hearth.

Energy Mitigation - Assuming compliance with 2019 Title 24 standards, installation of high efficiency lighting and appliances, and 30% of electricity generated is from on-site renewable energy.

Water Mitigation - Assuming installation of low-flow appliances and use of water-efficient irrigation systems.

Waste Mitigation - Consistent with the CalRecycle Waste Diversion and Recycling Mandate which will reduce solid waste production by 75 percent.

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Cypress Town Center - South Coast AQMD Air District, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	20.00	510.00
tblConstructionPhase	NumDays	230.00	510.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	AcresOfGrading	72.00	7.00
tblGrading	MaterialImported	0.00	7,125.00
tblLandUse	LotAcreage	8.44	6.44
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Cypress Town Center - South Coast AQMD Air District, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	9.00
tblOffRoadEquipment	UsageHours	7.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	7.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblOffRoadEquipment	UsageHours	8.00	9.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	502.65
tblTripsAndVMT	HaulingTripNumber	891.00	1,018.00
tblVehicleTrips	ST_TR	5.67	7.32
tblVehicleTrips	SU_TR	4.84	7.32
tblVehicleTrips	WD_TR	5.81	7.32

2.0 Emissions Summary

Cypress Town Center - South Coast AQMD Air District, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.2671	40.3092	24.5257	0.0774	0.9248	1.3059	2.2308	0.2108	1.2024	1.4132	0.0000	7,773.3775	7,773.3775	1.8291	0.0000	7,819.1058
2022	6.0039	35.5067	43.7045	0.0815	1.7360	1.7487	3.4847	0.4630	1.6377	2.1007	0.0000	7,904.9134	7,904.9134	1.6527	0.0000	7,946.2307
2023	4.4087	20.8642	26.3156	0.0537	1.5683	0.9594	2.5277	0.4185	0.9077	1.3262	0.0000	5,210.1311	5,210.1311	0.8316	0.0000	5,230.9197
Maximum	6.0039	40.3092	43.7045	0.0815	1.7360	1.7487	3.4847	0.4630	1.6377	2.1007	0.0000	7,904.9134	7,904.9134	1.8291	0.0000	7,946.2307

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.6499	49.5383	30.8584	0.0774	0.7834	1.0448	1.8282	0.1950	1.0436	1.2386	0.0000	7,773.3775	7,773.3775	1.8291	0.0000	7,819.1058
2022	4.9305	56.6298	48.6963	0.0815	1.7360	1.9900	3.7260	0.4630	1.9890	2.4520	0.0000	7,904.9134	7,904.9134	1.6527	0.0000	7,946.2307
2023	3.7067	33.5276	28.4018	0.0537	1.5683	1.2366	2.8049	0.4185	1.2357	1.6542	0.0000	5,210.1311	5,210.1311	0.8316	0.0000	5,230.9197
Maximum	4.9305	56.6298	48.6963	0.0815	1.7360	1.9900	3.7260	0.4630	1.9890	2.4520	0.0000	7,904.9134	7,904.9134	1.8291	0.0000	7,946.2307

Cypress Town Center - 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	24.80	-44.49	-14.18	0.00	3.34	-6.41	-1.41	1.45	-13.89	-10.43	0.00	0.00	0.00	0.00	0.00	0.00

Cypress Town Center - 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	38.6262	2.9295	79.8010	0.1757		10.3741	10.3741		10.3741	10.3741	1,264.5340	2,450.0681	3,714.6021	3.7904	0.0858	3,834.9389
Energy	0.0704	0.6015	0.2559	3.8400e-003		0.0486	0.0486		0.0486	0.0486		767.8195	767.8195	0.0147	0.0141	772.3823
Mobile	1.4901	7.0251	19.9061	0.0800	7.1804	0.0577	7.2380	1.9211	0.0536	1.9747		8,154.5808	8,154.5808	0.3740		8,163.9315
Total	40.1867	10.5560	99.9631	0.2596	7.1804	10.4804	17.6607	1.9211	10.4764	12.3975	1,264.5340	11,372.4684	12,637.0024	4.1792	0.0999	12,771.2527

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	3.4872	2.1439	12.0041	0.0135		0.2246	0.2246		0.2246	0.2246	0.0000	2,593.0093	2,593.0093	0.0686	0.0472	2,608.7820
Energy	0.0447	0.3823	0.1627	2.4400e-003		0.0309	0.0309		0.0309	0.0309		488.0854	488.0854	9.3500e-003	8.9500e-003	490.9859
Mobile	1.4149	6.5979	17.9834	0.0711	6.3331	0.0515	6.3846	1.6944	0.0479	1.7423		7,248.0958	7,248.0958	0.3382		7,256.5512
Total	4.9468	9.1242	30.1502	0.0870	6.3331	0.3071	6.6401	1.6944	0.3035	1.9979	0.0000	10,329.1905	10,329.1905	0.4162	0.0561	10,356.3191

Cypress Town Center - 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	N20	CO2e
Percent Reduction	87.69	13.56	69.84	66.50	11.80	97.07	62.40	11.80	97.10	83.88	100.00	9.17	18.26	90.04	43.83	18.91

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2021	11/15/2021	5	32	
2	Trenching	Trenching	11/16/2021	1/14/2022	5	44	
3	Building Construction	Building Construction	1/17/2022	12/29/2023	5	510	
4	Architectural Coating	Architectural Coating	1/17/2022	12/29/2023	5	510	
5	Paving	Paving	3/1/2022	3/30/2022	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 7

Acres of Paving: 0.56

Residential Indoor: 273,375; Residential Outdoor: 91,125; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,488 (Architectural Coating – sqft)

OffRoad Equipment

Cypress Town Center - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Off-Highway Trucks	1	9.00	402	0.38
Grading	Rubber Tired Dozers	0	9.00	247	0.40
Grading	Scrapers	2	9.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	9.00	97	0.37
Trenching	Excavators	1	9.00	158	0.38
Trenching	Off-Highway Trucks	2	9.00	402	0.38
Building Construction	Cranes	1	9.00	231	0.29
Building Construction	Forklifts	3	9.00	89	0.20
Building Construction	Generator Sets	1	9.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	9.00	97	0.37
Building Construction	Welders	1	9.00	46	0.45
Architectural Coating	Air Compressors	1	9.00	78	0.48
Paving	Pavers	2	9.00	130	0.42
Paving	Paving Equipment	2	9.00	132	0.36
Paving	Rollers	2	9.00	80	0.38

Trips and VMT

Cypress Town Center - 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
Grading	4	10.00	0.00	1,018.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	108.00	18.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	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

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2572	0.0000	0.2572	0.0289	0.0000	0.0289			0.0000			0.0000
Off-Road	2.9836	32.1353	22.3582	0.0525		1.2798	1.2798		1.1774	1.1774		5,079.6519	5,079.6519	1.6429		5,120.7234
Total	2.9836	32.1353	22.3582	0.0525	0.2572	1.2798	1.5370	0.0289	1.1774	1.2063		5,079.6519	5,079.6519	1.6429		5,120.7234

Cypress Town Center - South Coast AQMD Air District, Winter

3.2 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2374	8.1439	1.8289	0.0239	0.5559	0.0253	0.5812	0.1523	0.0242	0.1766		2,590.1589	2,590.1589	0.1835		2,594.7462
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0461	0.0300	0.3385	1.0400e-003	0.1118	8.2000e-004	0.1126	0.0296	7.6000e-004	0.0304		103.5668	103.5668	2.7800e-003		103.6362
Total	0.2835	8.1739	2.1674	0.0250	0.6677	0.0262	0.6938	0.1820	0.0250	0.2070		2,693.7257	2,693.7257	0.1863		2,698.3824

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1157	0.0000	0.1157	0.0130	0.0000	0.0130			0.0000			0.0000
Off-Road	1.3664	41.3644	28.6910	0.0525		1.0186	1.0186		1.0186	1.0186	0.0000	5,079.6519	5,079.6519	1.6429		5,120.7234
Total	1.3664	41.3644	28.6910	0.0525	0.1157	1.0186	1.1344	0.0130	1.0186	1.0316	0.0000	5,079.6519	5,079.6519	1.6429		5,120.7234

Cypress Town Center - South Coast AQMD Air District, Winter

3.2 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2374	8.1439	1.8289	0.0239	0.5559	0.0253	0.5812	0.1523	0.0242	0.1766		2,590.1589	2,590.1589	0.1835		2,594.7462
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0461	0.0300	0.3385	1.0400e-003	0.1118	8.2000e-004	0.1126	0.0296	7.6000e-004	0.0304		103.5668	103.5668	2.7800e-003		103.6362
Total	0.2835	8.1739	2.1674	0.0250	0.6677	0.0262	0.6938	0.1820	0.0250	0.2070		2,693.7257	2,693.7257	0.1863		2,698.3824

3.3 Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6211	14.2652	11.7906	0.0355		0.5519	0.5519		0.5077	0.5077		3,439.3927	3,439.3927	1.1124		3,467.2019
Total	1.6211	14.2652	11.7906	0.0355		0.5519	0.5519		0.5077	0.5077		3,439.3927	3,439.3927	1.1124		3,467.2019

Cypress Town Center - South Coast AQMD Air District, Winter

3.3 Trenching - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0738	0.0480	0.5417	1.6600e-003	0.3343	1.3200e-003	0.3356	0.0856	1.2100e-003	0.0868		165.7069	165.7069	4.4400e-003		165.8179
Total	0.0738	0.0480	0.5417	1.6600e-003	0.3343	1.3200e-003	0.3356	0.0856	1.2100e-003	0.0868		165.7069	165.7069	4.4400e-003		165.8179

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9538	27.9427	20.1690	0.0355		0.6859	0.6859		0.6859	0.6859	0.0000	3,439.3927	3,439.3927	1.1124		3,467.2019
Total	0.9538	27.9427	20.1690	0.0355		0.6859	0.6859		0.6859	0.6859	0.0000	3,439.3927	3,439.3927	1.1124		3,467.2019

Cypress Town Center - South Coast AQMD Air District, Winter

3.3 Trenching - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0738	0.0480	0.5417	1.6600e-003	0.3343	1.3200e-003	0.3356	0.0856	1.2100e-003	0.0868		165.7069	165.7069	4.4400e-003		165.8179
Total	0.0738	0.0480	0.5417	1.6600e-003	0.3343	1.3200e-003	0.3356	0.0856	1.2100e-003	0.0868		165.7069	165.7069	4.4400e-003		165.8179

3.3 Trenching - 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	1.4167	11.0300	11.2192	0.0355		0.4251	0.4251		0.3911	0.3911		3,440.2341	3,440.2341	1.1126		3,468.0501
Total	1.4167	11.0300	11.2192	0.0355		0.4251	0.4251		0.3911	0.3911		3,440.2341	3,440.2341	1.1126		3,468.0501

Cypress Town Center - South Coast AQMD Air District, Winter

3.3 Trenching - 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	0.0694	0.0433	0.5000	1.6000e-003	0.3343	1.2800e-003	0.3356	0.0856	1.1800e-003	0.0868		159.7658	159.7658	4.0100e-003		159.8661
Total	0.0694	0.0433	0.5000	1.6000e-003	0.3343	1.2800e-003	0.3356	0.0856	1.1800e-003	0.0868		159.7658	159.7658	4.0100e-003		159.8661

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9538	27.9427	20.1690	0.0355		0.6859	0.6859		0.6859	0.6859	0.0000	3,440.2341	3,440.2341	1.1126		3,468.0501
Total	0.9538	27.9427	20.1690	0.0355		0.6859	0.6859		0.6859	0.6859	0.0000	3,440.2341	3,440.2341	1.1126		3,468.0501

Cypress Town Center - South Coast AQMD Air District, Winter

3.3 Trenching - 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	0.0694	0.0433	0.5000	1.6000e-003	0.3343	1.2800e-003	0.3356	0.0856	1.1800e-003	0.0868		159.7658	159.7658	4.0100e-003		159.8661
Total	0.0694	0.0433	0.5000	1.6000e-003	0.3343	1.2800e-003	0.3356	0.0856	1.1800e-003	0.0868		159.7658	159.7658	4.0100e-003		159.8661

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0415	18.8629	19.6191	0.0324		0.9726	0.9726		0.9138	0.9138		3,079.2960	3,079.2960	0.7550		3,098.1699
Total	2.0415	18.8629	19.6191	0.0324		0.9726	0.9726		0.9138	0.9138		3,079.2960	3,079.2960	0.7550		3,098.1699

Cypress Town Center - South Coast AQMD Air District, Winter

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0495	1.6231	0.4311	4.4200e-003	0.1152	3.0900e-003	0.1183	0.0332	2.9600e-003	0.0361		471.9496	471.9496	0.0307		472.7159
Worker	0.4684	0.2923	3.3747	0.0108	1.2072	8.6300e-003	1.2158	0.3202	7.9500e-003	0.3281		1,078.4194	1,078.4194	0.0271		1,079.0962
Total	0.5179	1.9154	3.8058	0.0152	1.3224	0.0117	1.3341	0.3533	0.0109	0.3642		1,550.3690	1,550.3690	0.0577		1,551.8121

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	1.2973	28.4567	21.5280	0.0324		1.0824	1.0824		1.0824	1.0824	0.0000	3,079.2960	3,079.2960	0.7550		3,098.1699
Total	1.2973	28.4567	21.5280	0.0324		1.0824	1.0824		1.0824	1.0824	0.0000	3,079.2960	3,079.2960	0.7550		3,098.1699

Cypress Town Center - South Coast AQMD Air District, Winter

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0495	1.6231	0.4311	4.4200e-003	0.1152	3.0900e-003	0.1183	0.0332	2.9600e-003	0.0361		471.9496	471.9496	0.0307		472.7159
Worker	0.4684	0.2923	3.3747	0.0108	1.2072	8.6300e-003	1.2158	0.3202	7.9500e-003	0.3281		1,078.4194	1,078.4194	0.0271		1,079.0962
Total	0.5179	1.9154	3.8058	0.0152	1.3224	0.0117	1.3341	0.3533	0.0109	0.3642		1,550.3690	1,550.3690	0.0577		1,551.8121

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8826	17.3674	19.4738	0.0324		0.8416	0.8416		0.7908	0.7908		3,080.4227	3,080.4227	0.7504		3,099.1824
Total	1.8826	17.3674	19.4738	0.0324		0.8416	0.8416		0.7908	0.7908		3,080.4227	3,080.4227	0.7504		3,099.1824

Cypress Town Center - South Coast AQMD Air District, Winter

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0369	1.2241	0.3812	4.2800e-003	0.1152	1.4500e-003	0.1167	0.0332	1.3900e-003	0.0346		457.8510	457.8510	0.0265		458.5144
Worker	0.4418	0.2644	3.1103	0.0104	1.2072	8.4100e-003	1.2156	0.3202	7.7400e-003	0.3279		1,038.2002	1,038.2002	0.0244		1,038.8099
Total	0.4787	1.4885	3.4915	0.0147	1.3224	9.8600e-003	1.3322	0.3533	9.1300e-003	0.3624		1,496.0511	1,496.0511	0.0509		1,497.3243

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	1.2973	28.4567	21.5280	0.0324		1.0824	1.0824		1.0824	1.0824	0.0000	3,080.4227	3,080.4227	0.7504		3,099.1824
Total	1.2973	28.4567	21.5280	0.0324		1.0824	1.0824		1.0824	1.0824	0.0000	3,080.4227	3,080.4227	0.7504		3,099.1824

Cypress Town Center - South Coast AQMD Air District, Winter

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0369	1.2241	0.3812	4.2800e-003	0.1152	1.4500e-003	0.1167	0.0332	1.3900e-003	0.0346		457.8510	457.8510	0.0265		458.5144
Worker	0.4418	0.2644	3.1103	0.0104	1.2072	8.4100e-003	1.2156	0.3202	7.7400e-003	0.3279		1,038.2002	1,038.2002	0.0244		1,038.8099
Total	0.4787	1.4885	3.4915	0.0147	1.3224	9.8600e-003	1.3322	0.3533	9.1300e-003	0.3624		1,496.0511	1,496.0511	0.0509		1,497.3243

3.5 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	1.6699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3068	2.1127	2.7204	4.4600e-003		0.1226	0.1226		0.1226	0.1226		422.1721	422.1721	0.0275		422.8592
Total	1.9767	2.1127	2.7204	4.4600e-003		0.1226	0.1226		0.1226	0.1226		422.1721	422.1721	0.0275		422.8592

Cypress Town Center - South Coast AQMD Air District, Winter

3.5 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	0.0954	0.0595	0.6874	2.2000e-003	0.2459	1.7600e-003	0.2477	0.0652	1.6200e-003	0.0668		219.6780	219.6780	5.5100e-003		219.8159
Total	0.0954	0.0595	0.6874	2.2000e-003	0.2459	1.7600e-003	0.2477	0.0652	1.6200e-003	0.0668		219.6780	219.6780	5.5100e-003		219.8159

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	1.6699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	3.5286	2.7486	4.4600e-003		0.1426	0.1426		0.1426	0.1426	0.0000	422.1721	422.1721	0.0275		422.8592
Total	1.8407	3.5286	2.7486	4.4600e-003		0.1426	0.1426		0.1426	0.1426	0.0000	422.1721	422.1721	0.0275		422.8592

Cypress Town Center - South Coast AQMD Air District, Winter

3.5 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	0.0954	0.0595	0.6874	2.2000e-003	0.2459	1.7600e-003	0.2477	0.0652	1.6200e-003	0.0668		219.6780	219.6780	5.5100e-003		219.8159
Total	0.0954	0.0595	0.6874	2.2000e-003	0.2459	1.7600e-003	0.2477	0.0652	1.6200e-003	0.0668		219.6780	219.6780	5.5100e-003		219.8159

3.5 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.6699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2875	1.9545	2.7167	4.4600e-003		0.1062	0.1062		0.1062	0.1062		422.1721	422.1721	0.0253		422.8035
Total	1.9573	1.9545	2.7167	4.4600e-003		0.1062	0.1062		0.1062	0.1062		422.1721	422.1721	0.0253		422.8035

Cypress Town Center - South Coast AQMD Air District, Winter

3.5 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0900	0.0539	0.6336	2.1200e-003	0.2459	1.7100e-003	0.2476	0.0652	1.5800e-003	0.0668		211.4852	211.4852	4.9700e-003		211.6094
Total	0.0900	0.0539	0.6336	2.1200e-003	0.2459	1.7100e-003	0.2476	0.0652	1.5800e-003	0.0668		211.4852	211.4852	4.9700e-003		211.6094

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	1.6699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	3.5286	2.7486	4.4600e-003		0.1426	0.1426		0.1426	0.1426	0.0000	422.1721	422.1721	0.0253		422.8035
Total	1.8407	3.5286	2.7486	4.4600e-003		0.1426	0.1426		0.1426	0.1426	0.0000	422.1721	422.1721	0.0253		422.8035

Cypress Town Center - South Coast AQMD Air District, Winter

3.5 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0900	0.0539	0.6336	2.1200e-003	0.2459	1.7100e-003	0.2476	0.0652	1.5800e-003	0.0668		211.4852	211.4852	4.9700e-003		211.6094
Total	0.0900	0.0539	0.6336	2.1200e-003	0.2459	1.7100e-003	0.2476	0.0652	1.5800e-003	0.0668		211.4852	211.4852	4.9700e-003		211.6094

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	1.2407	12.5155	16.4030	0.0257		0.6389	0.6389		0.5878	0.5878		2,483.6178	2,483.6178	0.8033		2,503.6991
Paving	0.0667					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3074	12.5155	16.4030	0.0257		0.6389	0.6389		0.5878	0.5878		2,483.6178	2,483.6178	0.8033		2,503.6991

Cypress Town Center - 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	1.0474	22.6290	19.4576	0.0257		0.7503	0.7503		0.7503	0.7503	0.0000	2,483.6178	2,483.6178	0.8033		2,503.6991
Paving	0.0667					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1141	22.6290	19.4576	0.0257		0.7503	0.7503		0.7503	0.7503	0.0000	2,483.6178	2,483.6178	0.8033		2,503.6991

Cypress Town Center - 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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Pedestrian Network

Cypress Town Center - 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	1.4149	6.5979	17.9834	0.0711	6.3331	0.0515	6.3846	1.6944	0.0479	1.7423		7,248.0958	7,248.0958	0.3382		7,256.5512
Unmitigated	1.4901	7.0251	19.9061	0.0800	7.1804	0.0577	7.2380	1.9211	0.0536	1.9747		8,154.5808	8,154.5808	0.3740		8,163.9315

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	988.20	988.20	988.20	3,376,830	2,978,364
Parking Lot	0.00	0.00	0.00		
Total	988.20	988.20	988.20	3,376,830	2,978,364

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
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Parking Lot	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

Cypress Town Center - South Coast AQMD Air District, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable 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	0.0447	0.3823	0.1627	2.4400e-003		0.0309	0.0309		0.0309	0.0309		488.0854	488.0854	9.3500e-003	8.9500e-003	490.9859
NaturalGas Unmitigated	0.0704	0.6015	0.2559	3.8400e-003		0.0486	0.0486		0.0486	0.0486		767.8195	767.8195	0.0147	0.0141	772.3823

Cypress Town Center - 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					
Condo/Townhouse	6526.47	0.0704	0.6015	0.2559	3.8400e-003		0.0486	0.0486		0.0486	0.0486		767.8195	767.8195	0.0147	0.0141	772.3823
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0704	0.6015	0.2559	3.8400e-003		0.0486	0.0486		0.0486	0.0486		767.8195	767.8195	0.0147	0.0141	772.3823

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					
Condo/Townhouse	4.14873	0.0447	0.3823	0.1627	2.4400e-003		0.0309	0.0309		0.0309	0.0309		488.0854	488.0854	9.3500e-003	8.9500e-003	490.9859
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0447	0.3823	0.1627	2.4400e-003		0.0309	0.0309		0.0309	0.0309		488.0854	488.0854	9.3500e-003	8.9500e-003	490.9859

6.0 Area Detail

6.1 Mitigation Measures Area

Cypress Town Center - South Coast AQMD Air District, Winter

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4872	2.1439	12.0041	0.0135		0.2246	0.2246		0.2246	0.2246	0.0000	2,593.0093	2,593.0093	0.0686	0.0472	2,608.7820
Unmitigated	38.6262	2.9295	79.8010	0.1757		10.3741	10.3741		10.3741	10.3741	1,264.5340	2,450.0681	3,714.6021	3.7904	0.0858	3,834.9389

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	0.2333					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	35.3749	2.8010	68.6545	0.1751		10.3124	10.3124		10.3124	10.3124	1,264.5340	2,430.0000	3,694.5340	3.7711	0.0858	3,814.3877
Landscaping	0.3362	0.1285	11.1465	5.9000e-004		0.0617	0.0617		0.0617	0.0617		20.0681	20.0681	0.0193		20.5511
Total	38.6262	2.9295	79.8010	0.1757		10.3741	10.3741		10.3741	10.3741	1,264.5340	2,450.0681	3,714.6021	3.7904	0.0858	3,834.9389

Cypress Town Center - 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	0.2333					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2359	2.0155	0.8577	0.0129		0.1630	0.1630		0.1630	0.1630	0.0000	2,572.9412	2,572.9412	0.0493	0.0472	2,588.2309
Landscaping	0.3362	0.1285	11.1465	5.9000e-004		0.0617	0.0617		0.0617	0.0617		20.0681	20.0681	0.0193		20.5511
Total	3.4872	2.1439	12.0041	0.0135		0.2246	0.2246		0.2246	0.2246	0.0000	2,593.0093	2,593.0093	0.0686	0.0472	2,608.7820

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Cypress Town Center - 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
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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
