



## APPENDIX B

# AIR QUALITY, GREENHOUSE GASES, AND ENERGY ANALYSIS DATA



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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
Enclosed Parking with Elevator	414.00	Space	1.50	165,600.00	0
Parking Lot	577.00	Space	6.91	230,800.00	0
Hotel	120.00	Room	0.90	174,240.00	0
Movie Theater (No Matinee)	10.00	Screen	0.99	27,500.00	0
Apartments Mid Rise	251.00	Dwelling Unit	2.50	251,000.00	718
Regional Shopping Center	20.80	1000sqft	0.48	20,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	8			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	502.65	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**



## Cypress Town Center - South Coast AQMD Air District, Winter

tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	300.00	330.00
tblConstructionPhase	NumDays	20.00	30.00
tblFireplaces	NumberGas	213.35	0.00
tblFireplaces	NumberNoFireplace	25.10	0.00
tblFireplaces	NumberWood	12.55	0.00
tblLandUse	LotAcreage	3.73	1.50
tblLandUse	LotAcreage	5.19	6.91
tblLandUse	LotAcreage	4.00	0.90
tblLandUse	LotAcreage	0.63	0.99
tblLandUse	LotAcreage	6.61	2.50
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblProjectCharacteristics	CO2IntensityFactor	702.44	502.65
tblVehicleTrips	ST_TR	6.39	5.06
tblVehicleTrips	ST_TR	8.19	7.78
tblVehicleTrips	ST_TR	376.00	204.60
tblVehicleTrips	ST_TR	49.97	35.10
tblVehicleTrips	SU_TR	5.86	5.06
tblVehicleTrips	SU_TR	5.95	7.78
tblVehicleTrips	SU_TR	314.00	204.60
tblVehicleTrips	SU_TR	25.24	35.10
tblVehicleTrips	WD_TR	6.65	5.06
tblVehicleTrips	WD_TR	8.17	7.78
tblVehicleTrips	WD_TR	220.00	204.60
tblVehicleTrips	WD_TR	42.70	35.10
tblWoodstoves	NumberCatalytic	12.55	0.00

Cypress Town Center - South Coast AQMD Air District, Winter

tblWoodstoves	:	NumberNoncatalytic	:	12.55	:	0.00
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**2.0 Emissions Summary**

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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					
2020	5.2151	50.2641	40.6504	0.1122	18.2675	2.1989	20.4664	9.9840	2.0230	12.0071	0.0000	11,255.57 49	11,255.57 49	1.9486	0.0000	11,285.22 58
2021	4.7157	35.2500	38.6896	0.1104	5.7262	1.2467	6.9729	1.5372	1.1673	2.7045	0.0000	11,078.157 5	11,078.157 5	1.1559	0.0000	11,107.054 6
2022	62.9821	32.1190	37.1227	0.1084	5.7262	1.0630	6.7892	1.5372	0.9956	2.5328	0.0000	10,885.77 31	10,885.77 31	1.1313	0.0000	10,914.05 64
<b>Maximum</b>	<b>62.9821</b>	<b>50.2641</b>	<b>40.6504</b>	<b>0.1122</b>	<b>18.2675</b>	<b>2.1989</b>	<b>20.4664</b>	<b>9.9840</b>	<b>2.0230</b>	<b>12.0071</b>	<b>0.0000</b>	<b>11,255.57 49</b>	<b>11,255.57 49</b>	<b>1.9486</b>	<b>0.0000</b>	<b>11,285.22 58</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	5.2151	50.2641	40.6504	0.1122	7.2470	2.1989	9.4460	3.9263	2.0230	5.9494	0.0000	11,255.574 9	11,255.574 9	1.9486	0.0000	11,285.225 8
2021	4.7157	35.2500	38.6896	0.1104	5.7262	1.2467	6.9729	1.5372	1.1673	2.7045	0.0000	11,078.157 5	11,078.157 5	1.1559	0.0000	11,107.054 6
2022	62.9821	32.1190	37.1227	0.1084	5.7262	1.0630	6.7892	1.5372	0.9956	2.5328	0.0000	10,885.77 31	10,885.77 31	1.1313	0.0000	10,914.05 64
<b>Maximum</b>	<b>62.9821</b>	<b>50.2641</b>	<b>40.6504</b>	<b>0.1122</b>	<b>7.2470</b>	<b>2.1989</b>	<b>9.4460</b>	<b>3.9263</b>	<b>2.0230</b>	<b>5.9494</b>	<b>0.0000</b>	<b>11,255.57 49</b>	<b>11,255.57 49</b>	<b>1.9486</b>	<b>0.0000</b>	<b>11,285.22 58</b>

## 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	0.00	0.00	0.00	0.00	37.08	0.00	32.20	46.39	0.00	35.13	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	11.1792	0.2401	20.8469	1.1000e-003		0.1150	0.1150		0.1150	0.1150	0.0000	37.5365	37.5365	0.0366	0.0000	38.4523
Energy	0.2793	2.4927	1.7937	0.0152		0.1930	0.1930		0.1930	0.1930		3,046.6922	3,046.6922	0.0584	0.0559	3,064.7971
Mobile	7.2878	38.3373	84.7354	0.3122	26.5418	0.2550	26.7967	7.1015	0.2379	7.3394		31,824.4750	31,824.4750	1.6271		31,865.1514
<b>Total</b>	<b>18.7463</b>	<b>41.0701</b>	<b>107.3760</b>	<b>0.3286</b>	<b>26.5418</b>	<b>0.5629</b>	<b>27.1046</b>	<b>7.1015</b>	<b>0.5458</b>	<b>7.6474</b>	<b>0.0000</b>	<b>34,908.7037</b>	<b>34,908.7037</b>	<b>1.7221</b>	<b>0.0559</b>	<b>34,968.4009</b>

**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	11.1792	0.2401	20.8469	1.1000e-003		0.1150	0.1150		0.1150	0.1150	0.0000	37.5365	37.5365	0.0366	0.0000	38.4523
Energy	0.2793	2.4927	1.7937	0.0152		0.1930	0.1930		0.1930	0.1930		3,046.6922	3,046.6922	0.0584	0.0559	3,064.7971
Mobile	7.2878	38.3373	84.7354	0.3122	26.5418	0.2550	26.7967	7.1015	0.2379	7.3394		31,824.4750	31,824.4750	1.6271		31,865.1514
<b>Total</b>	<b>18.7463</b>	<b>41.0701</b>	<b>107.3760</b>	<b>0.3286</b>	<b>26.5418</b>	<b>0.5629</b>	<b>27.1046</b>	<b>7.1015</b>	<b>0.5458</b>	<b>7.6474</b>	<b>0.0000</b>	<b>34,908.7037</b>	<b>34,908.7037</b>	<b>1.7221</b>	<b>0.0559</b>	<b>34,968.4009</b>

## 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/1/2020	10/28/2020	5	20	
2	Site Preparation	Site Preparation	10/29/2020	11/11/2020	5	10	
3	Grading	Grading	11/12/2020	12/23/2020	5	30	
4	Building Construction	Building Construction	12/24/2020	3/30/2022	5	330	
5	Paving	Paving	3/31/2022	5/11/2022	5	30	
6	Architectural Coating	Architectural Coating	5/12/2022	8/3/2022	5	60	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 8.41**

**Residential Indoor: 508,275; Residential Outdoor: 169,425; Non-Residential Indoor: 333,810; Non-Residential Outdoor: 111,270; Striped Parking Area: 23,784 (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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Other Construction Equipment	1	8.00	172	0.42

**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
Demolition	6	15.00	0.00	850.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	439.00	128.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	88.00	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

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2016	0.0000	9.2016	1.3932	0.0000	1.3932			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>	<b>9.2016</b>	<b>1.6587</b>	<b>10.8603</b>	<b>1.3932</b>	<b>1.5419</b>	<b>2.9351</b>		<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>

Cypress Town Center - South Coast AQMD Air District, Winter

**3.2 Demolition - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3321	11.7145	2.4774	0.0324	0.7427	0.0379	0.7805	0.2035	0.0362	0.2397		3,497.3167	3,497.3167	0.2495		3,503.5534
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0740	0.0500	0.5521	1.6100e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		160.5547	160.5547	4.6000e-003		160.6699
<b>Total</b>	<b>0.4061</b>	<b>11.7645</b>	<b>3.0295</b>	<b>0.0340</b>	<b>0.9103</b>	<b>0.0391</b>	<b>0.9495</b>	<b>0.2480</b>	<b>0.0374</b>	<b>0.2854</b>		<b>3,657.8714</b>	<b>3,657.8714</b>	<b>0.2541</b>		<b>3,664.2232</b>

**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					3.5886	0.0000	3.5886	0.5434	0.0000	0.5434			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>	<b>3.5886</b>	<b>1.6587</b>	<b>5.2473</b>	<b>0.5434</b>	<b>1.5419</b>	<b>2.0852</b>	<b>0.0000</b>	<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>

Cypress Town Center - South Coast AQMD Air District, Winter

**3.2 Demolition - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3321	11.7145	2.4774	0.0324	0.7427	0.0379	0.7805	0.2035	0.0362	0.2397		3,497.3167	3,497.3167	0.2495		3,503.5534
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0740	0.0500	0.5521	1.6100e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		160.5547	160.5547	4.6000e-003		160.6699
<b>Total</b>	<b>0.4061</b>	<b>11.7645</b>	<b>3.0295</b>	<b>0.0340</b>	<b>0.9103</b>	<b>0.0391</b>	<b>0.9495</b>	<b>0.2480</b>	<b>0.0374</b>	<b>0.2854</b>		<b>3,657.8714</b>	<b>3,657.8714</b>	<b>0.2541</b>		<b>3,664.2232</b>

**3.3 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Cypress Town Center - South Coast AQMD Air District, Winter

**3.3 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0888	0.0599	0.6626	1.9300e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		192.6657	192.6657	5.5300e-003		192.8038
<b>Total</b>	<b>0.0888</b>	<b>0.0599</b>	<b>0.6626</b>	<b>1.9300e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>192.6657</b>	<b>192.6657</b>	<b>5.5300e-003</b>		<b>192.8038</b>

**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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>7.0458</b>	<b>2.1974</b>	<b>9.2433</b>	<b>3.8730</b>	<b>2.0216</b>	<b>5.8946</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Cypress Town Center - South Coast AQMD Air District, Winter

**3.3 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0888	0.0599	0.6626	1.9300e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		192.6657	192.6657	5.5300e-003		192.8038
<b>Total</b>	<b>0.0888</b>	<b>0.0599</b>	<b>0.6626</b>	<b>1.9300e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>192.6657</b>	<b>192.6657</b>	<b>5.5300e-003</b>		<b>192.8038</b>

**3.4 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>8.6733</b>	<b>2.1739</b>	<b>10.8472</b>	<b>3.5965</b>	<b>2.0000</b>	<b>5.5965</b>		<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>



Cypress Town Center - South Coast AQMD Air District, Winter

**3.4 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0987	0.0666	0.7362	2.1500e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5600e-003	0.0609		214.0730	214.0730	6.1400e-003		214.2265
<b>Total</b>	<b>0.0987</b>	<b>0.0666</b>	<b>0.7362</b>	<b>2.1500e-003</b>	<b>0.2236</b>	<b>1.7000e-003</b>	<b>0.2253</b>	<b>0.0593</b>	<b>1.5600e-003</b>	<b>0.0609</b>		<b>214.0730</b>	<b>214.0730</b>	<b>6.1400e-003</b>		<b>214.2265</b>

**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					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>3.3826</b>	<b>2.1739</b>	<b>5.5565</b>	<b>1.4026</b>	<b>2.0000</b>	<b>3.4026</b>	<b>0.0000</b>	<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Cypress Town Center - South Coast AQMD Air District, Winter

**3.4 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0987	0.0666	0.7362	2.1500e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5600e-003	0.0609		214.0730	214.0730	6.1400e-003		214.2265
<b>Total</b>	<b>0.0987</b>	<b>0.0666</b>	<b>0.7362</b>	<b>2.1500e-003</b>	<b>0.2236</b>	<b>1.7000e-003</b>	<b>0.2253</b>	<b>0.0593</b>	<b>1.5600e-003</b>	<b>0.0609</b>		<b>214.0730</b>	<b>214.0730</b>	<b>6.1400e-003</b>		<b>214.2265</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6085	24.3678	20.9254	0.0330		1.3905	1.3905		1.3019	1.3019		3,145.3088	3,145.3088	0.8144		3,165.6688
<b>Total</b>	<b>2.6085</b>	<b>24.3678</b>	<b>20.9254</b>	<b>0.0330</b>		<b>1.3905</b>	<b>1.3905</b>		<b>1.3019</b>	<b>1.3019</b>		<b>3,145.3088</b>	<b>3,145.3088</b>	<b>0.8144</b>		<b>3,165.6688</b>

Cypress Town Center - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4403	13.4178	3.5659	0.0320	0.8192	0.0675	0.8868	0.2359	0.0646	0.3005		3,411.3639	3,411.3639	0.2369		3,417.2859
Worker	2.1663	1.4619	16.1590	0.0472	4.9070	0.0372	4.9442	1.3014	0.0343	1.3356		4,698.9022	4,698.9022	0.1348		4,702.2711
<b>Total</b>	<b>2.6066</b>	<b>14.8797</b>	<b>19.7249</b>	<b>0.0792</b>	<b>5.7262</b>	<b>0.1048</b>	<b>5.8310</b>	<b>1.5372</b>	<b>0.0989</b>	<b>1.6361</b>		<b>8,110.2661</b>	<b>8,110.2661</b>	<b>0.3716</b>		<b>8,119.5570</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6085	24.3678	20.9254	0.0330		1.3905	1.3905		1.3019	1.3019	0.0000	3,145.3088	3,145.3088	0.8144		3,165.6688
<b>Total</b>	<b>2.6085</b>	<b>24.3678</b>	<b>20.9254</b>	<b>0.0330</b>		<b>1.3905</b>	<b>1.3905</b>		<b>1.3019</b>	<b>1.3019</b>	<b>0.0000</b>	<b>3,145.3088</b>	<b>3,145.3088</b>	<b>0.8144</b>		<b>3,165.6688</b>

Cypress Town Center - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4403	13.4178	3.5659	0.0320	0.8192	0.0675	0.8868	0.2359	0.0646	0.3005		3,411.3639	3,411.3639	0.2369		3,417.2859
Worker	2.1663	1.4619	16.1590	0.0472	4.9070	0.0372	4.9442	1.3014	0.0343	1.3356		4,698.9022	4,698.9022	0.1348		4,702.2711
<b>Total</b>	<b>2.6066</b>	<b>14.8797</b>	<b>19.7249</b>	<b>0.0792</b>	<b>5.7262</b>	<b>0.1048</b>	<b>5.8310</b>	<b>1.5372</b>	<b>0.0989</b>	<b>1.6361</b>		<b>8,110.2661</b>	<b>8,110.2661</b>	<b>0.3716</b>		<b>8,119.5570</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3162	21.7651	20.5859	0.0330		1.1852	1.1852		1.1097	1.1097		3,145.3331	3,145.3331	0.8075		3,165.5198
<b>Total</b>	<b>2.3162</b>	<b>21.7651</b>	<b>20.5859</b>	<b>0.0330</b>		<b>1.1852</b>	<b>1.1852</b>		<b>1.1097</b>	<b>1.1097</b>		<b>3,145.3331</b>	<b>3,145.3331</b>	<b>0.8075</b>		<b>3,165.5198</b>

Cypress Town Center - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3749	12.1694	3.2418	0.0317	0.8192	0.0254	0.8446	0.2358	0.0243	0.2601		3,386.2425	3,386.2425	0.2266		3,391.9066
Worker	2.0246	1.3156	14.8619	0.0456	4.9070	0.0361	4.9431	1.3014	0.0333	1.3346		4,546.5820	4,546.5820	0.1219		4,549.6282
<b>Total</b>	<b>2.3995</b>	<b>13.4850</b>	<b>18.1037</b>	<b>0.0774</b>	<b>5.7262</b>	<b>0.0615</b>	<b>5.7877</b>	<b>1.5372</b>	<b>0.0575</b>	<b>1.5947</b>		<b>7,932.8244</b>	<b>7,932.8244</b>	<b>0.3484</b>		<b>7,941.5348</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3162	21.7651	20.5859	0.0330		1.1852	1.1852		1.1097	1.1097	0.0000	3,145.3331	3,145.3331	0.8075		3,165.5198
<b>Total</b>	<b>2.3162</b>	<b>21.7651</b>	<b>20.5859</b>	<b>0.0330</b>		<b>1.1852</b>	<b>1.1852</b>		<b>1.1097</b>	<b>1.1097</b>	<b>0.0000</b>	<b>3,145.3331</b>	<b>3,145.3331</b>	<b>0.8075</b>		<b>3,165.5198</b>

Cypress Town Center - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3749	12.1694	3.2418	0.0317	0.8192	0.0254	0.8446	0.2358	0.0243	0.2601		3,386.2425	3,386.2425	0.2266		3,391.9066
Worker	2.0246	1.3156	14.8619	0.0456	4.9070	0.0361	4.9431	1.3014	0.0333	1.3346		4,546.5820	4,546.5820	0.1219		4,549.6282
<b>Total</b>	<b>2.3995</b>	<b>13.4850</b>	<b>18.1037</b>	<b>0.0774</b>	<b>5.7262</b>	<b>0.0615</b>	<b>5.7877</b>	<b>1.5372</b>	<b>0.0575</b>	<b>1.5947</b>		<b>7,932.8244</b>	<b>7,932.8244</b>	<b>0.3484</b>		<b>7,941.5348</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0781	19.3890	20.3396	0.0330		1.0059	1.0059		0.9423	0.9423		3,146.1117	3,146.1117	0.8033		3,166.1951
<b>Total</b>	<b>2.0781</b>	<b>19.3890</b>	<b>20.3396</b>	<b>0.0330</b>		<b>1.0059</b>	<b>1.0059</b>		<b>0.9423</b>	<b>0.9423</b>		<b>3,146.1117</b>	<b>3,146.1117</b>	<b>0.8033</b>		<b>3,166.1951</b>

Cypress Town Center - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3517	11.5420	3.0655	0.0314	0.8192	0.0220	0.8412	0.2358	0.0210	0.2569		3,356.0861	3,356.0861	0.2180		3,361.5350
Worker	1.9041	1.1881	13.7176	0.0440	4.9070	0.0351	4.9421	1.3014	0.0323	1.3337		4,383.5753	4,383.5753	0.1100		4,386.3262
<b>Total</b>	<b>2.2558</b>	<b>12.7301</b>	<b>16.7831</b>	<b>0.0754</b>	<b>5.7262</b>	<b>0.0571</b>	<b>5.7833</b>	<b>1.5372</b>	<b>0.0534</b>	<b>1.5906</b>		<b>7,739.6614</b>	<b>7,739.6614</b>	<b>0.3280</b>		<b>7,747.8613</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0781	19.3890	20.3396	0.0330		1.0059	1.0059		0.9423	0.9423	0.0000	3,146.1117	3,146.1117	0.8033		3,166.1951
<b>Total</b>	<b>2.0781</b>	<b>19.3890</b>	<b>20.3396</b>	<b>0.0330</b>		<b>1.0059</b>	<b>1.0059</b>		<b>0.9423</b>	<b>0.9423</b>	<b>0.0000</b>	<b>3,146.1117</b>	<b>3,146.1117</b>	<b>0.8033</b>		<b>3,166.1951</b>

Cypress Town Center - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3517	11.5420	3.0655	0.0314	0.8192	0.0220	0.8412	0.2358	0.0210	0.2569		3,356.0861	3,356.0861	0.2180		3,361.5350
Worker	1.9041	1.1881	13.7176	0.0440	4.9070	0.0351	4.9421	1.3014	0.0323	1.3337		4,383.5753	4,383.5753	0.1100		4,386.3262
<b>Total</b>	<b>2.2558</b>	<b>12.7301</b>	<b>16.7831</b>	<b>0.0754</b>	<b>5.7262</b>	<b>0.0571</b>	<b>5.7833</b>	<b>1.5372</b>	<b>0.0534</b>	<b>1.5906</b>		<b>7,739.6614</b>	<b>7,739.6614</b>	<b>0.3280</b>		<b>7,747.8613</b>

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.6035					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.7063</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>



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
<b>Total</b>	<b>0.0651</b>	<b>0.0406</b>	<b>0.4687</b>	<b>1.5000e-003</b>	<b>0.1677</b>	<b>1.2000e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1000e-003</b>	<b>0.0456</b>		<b>149.7805</b>	<b>149.7805</b>	<b>3.7600e-003</b>		<b>149.8745</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.6035					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.7063</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

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
<b>Total</b>	<b>0.0651</b>	<b>0.0406</b>	<b>0.4687</b>	<b>1.5000e-003</b>	<b>0.1677</b>	<b>1.2000e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1000e-003</b>	<b>0.0456</b>		<b>149.7805</b>	<b>149.7805</b>	<b>3.7600e-003</b>		<b>149.8745</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	62.3959					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>62.6005</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Cypress Town Center - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3817	0.2382	2.7498	8.8200e-003	0.9836	7.0300e-003	0.9907	0.2609	6.4800e-003	0.2673		878.7121	878.7121	0.0221		879.2636
<b>Total</b>	<b>0.3817</b>	<b>0.2382</b>	<b>2.7498</b>	<b>8.8200e-003</b>	<b>0.9836</b>	<b>7.0300e-003</b>	<b>0.9907</b>	<b>0.2609</b>	<b>6.4800e-003</b>	<b>0.2673</b>		<b>878.7121</b>	<b>878.7121</b>	<b>0.0221</b>		<b>879.2636</b>

**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	62.3959					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>62.6005</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Cypress Town Center - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3817	0.2382	2.7498	8.8200e-003	0.9836	7.0300e-003	0.9907	0.2609	6.4800e-003	0.2673		878.7121	878.7121	0.0221		879.2636
<b>Total</b>	<b>0.3817</b>	<b>0.2382</b>	<b>2.7498</b>	<b>8.8200e-003</b>	<b>0.9836</b>	<b>7.0300e-003</b>	<b>0.9907</b>	<b>0.2609</b>	<b>6.4800e-003</b>	<b>0.2673</b>		<b>878.7121</b>	<b>878.7121</b>	<b>0.0221</b>		<b>879.2636</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	7.2878	38.3373	84.7354	0.3122	26.5418	0.2550	26.7967	7.1015	0.2379	7.3394		31,824.47 50	31,824.47 50	1.6271		31,865.15 14
Unmitigated	7.2878	38.3373	84.7354	0.3122	26.5418	0.2550	26.7967	7.1015	0.2379	7.3394		31,824.47 50	31,824.47 50	1.6271		31,865.15 14

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,270.06	1,270.06	1270.06	4,339,988	4,339,988
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	933.60	933.60	933.60	2,227,729	2,227,729
Movie Theater (No Matinee)	2,046.00	2,046.00	2046.00	4,335,510	4,335,510
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	730.08	730.08	730.08	1,579,049	1,579,049
<b>Total</b>	<b>4,979.74</b>	<b>4,979.74</b>	<b>4,979.74</b>	<b>12,482,276</b>	<b>12,482,276</b>

4.3 Trip Type Information

Cypress Town Center - South Coast AQMD Air District, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Enclosed Parking with Elevator	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Hotel	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Movie Theater (No Matinee)	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Parking Lot	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Regional Shopping Center	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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					
NaturalGas Mitigated	0.2793	2.4927	1.7937	0.0152		0.1930	0.1930		0.1930	0.1930		3,046.692 2	3,046.692 2	0.0584	0.0559	3,064.797 1
NaturalGas Unmitigated	0.2793	2.4927	1.7937	0.0152		0.1930	0.1930		0.1930	0.1930		3,046.692 2	3,046.692 2	0.0584	0.0559	3,064.797 1

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					
Apartments Mid Rise	7858.34	0.0848	0.7242	0.3082	4.6200e-003		0.0586	0.0586		0.0586	0.0586		924.5101	924.5101	0.0177	0.0170	930.0040
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	16349.9	0.1763	1.6029	1.3465	9.6200e-003		0.1218	0.1218		0.1218	0.1218		1,923.5197	1,923.5197	0.0369	0.0353	1,934.9503
Movie Theater (No Matinee)	1574.66	0.0170	0.1544	0.1297	9.3000e-004		0.0117	0.0117		0.0117	0.0117		185.2538	185.2538	3.5500e-003	3.4000e-003	186.3547
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
Regional Shopping Center	113.973	1.2300e-003	0.0112	9.3900e-003	7.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		13.4085	13.4085	2.6000e-004	2.5000e-004	13.4882
<b>Total</b>		<b>0.2793</b>	<b>2.4927</b>	<b>1.7937</b>	<b>0.0152</b>		<b>0.1930</b>	<b>0.1930</b>		<b>0.1930</b>	<b>0.1930</b>		<b>3,046.6922</b>	<b>3,046.6922</b>	<b>0.0584</b>	<b>0.0559</b>	<b>3,064.7971</b>



Cypress Town Center - South Coast AQMD Air District, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	7.85834	0.0848	0.7242	0.3082	4.6200e-003		0.0586	0.0586		0.0586	0.0586		924.5101	924.5101	0.0177	0.0170	930.0040
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	16.3499	0.1763	1.6029	1.3465	9.6200e-003		0.1218	0.1218		0.1218	0.1218		1,923.5197	1,923.5197	0.0369	0.0353	1,934.9503
Movie Theater (No Matinee)	1.57466	0.0170	0.1544	0.1297	9.3000e-004		0.0117	0.0117		0.0117	0.0117		185.2538	185.2538	3.5500e-003	3.4000e-003	186.3547
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
Regional Shopping Center	0.113973	1.2300e-003	0.0112	9.3900e-003	7.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		13.4085	13.4085	2.6000e-004	2.5000e-004	13.4882
<b>Total</b>		<b>0.2793</b>	<b>2.4927</b>	<b>1.7937</b>	<b>0.0152</b>		<b>0.1930</b>	<b>0.1930</b>		<b>0.1930</b>	<b>0.1930</b>		<b>3,046.6922</b>	<b>3,046.6922</b>	<b>0.0584</b>	<b>0.0559</b>	<b>3,064.7971</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	11.1792	0.2401	20.8469	1.1000e-003		0.1150	0.1150		0.1150	0.1150	0.0000	37.5365	37.5365	0.0366	0.0000	38.4523
Unmitigated	11.1792	0.2401	20.8469	1.1000e-003		0.1150	0.1150		0.1150	0.1150	0.0000	37.5365	37.5365	0.0366	0.0000	38.4523

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	1.0257					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.5165					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6370	0.2401	20.8469	1.1000e-003		0.1150	0.1150		0.1150	0.1150		37.5365	37.5365	0.0366		38.4523
<b>Total</b>	<b>11.1792</b>	<b>0.2401</b>	<b>20.8469</b>	<b>1.1000e-003</b>		<b>0.1150</b>	<b>0.1150</b>		<b>0.1150</b>	<b>0.1150</b>	<b>0.0000</b>	<b>37.5365</b>	<b>37.5365</b>	<b>0.0366</b>	<b>0.0000</b>	<b>38.4523</b>

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	1.0257					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.5165					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6370	0.2401	20.8469	1.1000e-003		0.1150	0.1150		0.1150	0.1150		37.5365	37.5365	0.0366		38.4523
<b>Total</b>	<b>11.1792</b>	<b>0.2401</b>	<b>20.8469</b>	<b>1.1000e-003</b>		<b>0.1150</b>	<b>0.1150</b>		<b>0.1150</b>	<b>0.1150</b>	<b>0.0000</b>	<b>37.5365</b>	<b>37.5365</b>	<b>0.0366</b>	<b>0.0000</b>	<b>38.4523</b>

**7.0 Water Detail**

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**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**

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**8.1 Mitigation Measures Waste**

Cypress Town Center - South Coast AQMD Air District, Winter

**9.0 Operational Offroad**

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

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**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**

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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
Enclosed Parking with Elevator	414.00	Space	1.50	165,600.00	0
Parking Lot	577.00	Space	6.91	230,800.00	0
Hotel	120.00	Room	0.90	174,240.00	0
Movie Theater (No Matinee)	10.00	Screen	0.99	27,500.00	0
Apartments Mid Rise	251.00	Dwelling Unit	2.50	251,000.00	718
Regional Shopping Center	20.80	1000sqft	0.48	20,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	8			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	502.65	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**



## Cypress Town Center - South Coast AQMD Air District, Summer

tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	300.00	330.00
tblConstructionPhase	NumDays	20.00	30.00
tblFireplaces	NumberGas	213.35	0.00
tblFireplaces	NumberNoFireplace	25.10	0.00
tblFireplaces	NumberWood	12.55	0.00
tblLandUse	LotAcreage	3.73	1.50
tblLandUse	LotAcreage	5.19	6.91
tblLandUse	LotAcreage	4.00	0.90
tblLandUse	LotAcreage	0.63	0.99
tblLandUse	LotAcreage	6.61	2.50
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblProjectCharacteristics	CO2IntensityFactor	702.44	502.65
tblVehicleTrips	ST_TR	6.39	5.06
tblVehicleTrips	ST_TR	8.19	7.78
tblVehicleTrips	ST_TR	376.00	204.60
tblVehicleTrips	ST_TR	49.97	35.10
tblVehicleTrips	SU_TR	5.86	5.06
tblVehicleTrips	SU_TR	5.95	7.78
tblVehicleTrips	SU_TR	314.00	204.60
tblVehicleTrips	SU_TR	25.24	35.10
tblVehicleTrips	WD_TR	6.65	5.06
tblVehicleTrips	WD_TR	8.17	7.78
tblVehicleTrips	WD_TR	220.00	204.60
tblVehicleTrips	WD_TR	42.70	35.10
tblWoodstoves	NumberCatalytic	12.55	0.00

Cypress Town Center - South Coast AQMD Air District, Summer

tblWoodstoves	:	NumberNoncatalytic	:	12.55	:	0.00
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**2.0 Emissions Summary**

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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					
2020	5.0150	50.2583	42.0709	0.1164	18.2675	2.1989	20.4664	9.9840	2.0230	12.0071	0.0000	11,682.2417	11,682.2417	1.9490	0.0000	11,711.7268
2021	4.5255	35.1750	40.0211	0.1145	5.7262	1.2459	6.9721	1.5372	1.1665	2.7037	0.0000	11,494.0460	11,494.0460	1.1492	0.0000	11,522.7747
2022	62.9489	32.0629	38.3702	0.1124	5.7262	1.0623	6.7885	1.5372	0.9950	2.5322	0.0000	11,290.1765	11,290.1765	1.1246	0.0000	11,318.2907
<b>Maximum</b>	<b>62.9489</b>	<b>50.2583</b>	<b>42.0709</b>	<b>0.1164</b>	<b>18.2675</b>	<b>2.1989</b>	<b>20.4664</b>	<b>9.9840</b>	<b>2.0230</b>	<b>12.0071</b>	<b>0.0000</b>	<b>11,682.2417</b>	<b>11,682.2417</b>	<b>1.9490</b>	<b>0.0000</b>	<b>11,711.7268</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	5.0150	50.2583	42.0709	0.1164	7.2470	2.1989	9.4460	3.9263	2.0230	5.9494	0.0000	11,682.2417	11,682.2417	1.9490	0.0000	11,711.7268
2021	4.5255	35.1750	40.0211	0.1145	5.7262	1.2459	6.9721	1.5372	1.1665	2.7037	0.0000	11,494.0460	11,494.0460	1.1492	0.0000	11,522.7747
2022	62.9489	32.0629	38.3702	0.1124	5.7262	1.0623	6.7885	1.5372	0.9950	2.5322	0.0000	11,290.1765	11,290.1765	1.1246	0.0000	11,318.2907
<b>Maximum</b>	<b>62.9489</b>	<b>50.2583</b>	<b>42.0709</b>	<b>0.1164</b>	<b>7.2470</b>	<b>2.1989</b>	<b>9.4460</b>	<b>3.9263</b>	<b>2.0230</b>	<b>5.9494</b>	<b>0.0000</b>	<b>11,682.2417</b>	<b>11,682.2417</b>	<b>1.9490</b>	<b>0.0000</b>	<b>11,711.7268</b>

## 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	0.00	0.00	0.00	0.00	37.08	0.00	32.20	46.39	0.00	35.13	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	11.1792	0.2401	20.8469	1.1000e-003		0.1150	0.1150		0.1150	0.1150	0.0000	37.5365	37.5365	0.0366	0.0000	38.4523
Energy	0.2793	2.4927	1.7937	0.0152		0.1930	0.1930		0.1930	0.1930		3,046.6922	3,046.6922	0.0584	0.0559	3,064.7971
Mobile	7.6906	37.8349	89.4822	0.3302	26.5418	0.2531	26.7948	7.1015	0.2361	7.3376		33,632.3327	33,632.3327	1.6149		33,672.7041
<b>Total</b>	<b>19.1490</b>	<b>40.5677</b>	<b>112.1227</b>	<b>0.3465</b>	<b>26.5418</b>	<b>0.5610</b>	<b>27.1028</b>	<b>7.1015</b>	<b>0.5440</b>	<b>7.6456</b>	<b>0.0000</b>	<b>36,716.5614</b>	<b>36,716.5614</b>	<b>1.7099</b>	<b>0.0559</b>	<b>36,775.9535</b>

**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	11.1792	0.2401	20.8469	1.1000e-003		0.1150	0.1150		0.1150	0.1150	0.0000	37.5365	37.5365	0.0366	0.0000	38.4523
Energy	0.2793	2.4927	1.7937	0.0152		0.1930	0.1930		0.1930	0.1930		3,046.6922	3,046.6922	0.0584	0.0559	3,064.7971
Mobile	7.6906	37.8349	89.4822	0.3302	26.5418	0.2531	26.7948	7.1015	0.2361	7.3376		33,632.3327	33,632.3327	1.6149		33,672.7041
<b>Total</b>	<b>19.1490</b>	<b>40.5677</b>	<b>112.1227</b>	<b>0.3465</b>	<b>26.5418</b>	<b>0.5610</b>	<b>27.1028</b>	<b>7.1015</b>	<b>0.5440</b>	<b>7.6456</b>	<b>0.0000</b>	<b>36,716.5614</b>	<b>36,716.5614</b>	<b>1.7099</b>	<b>0.0559</b>	<b>36,775.9535</b>

## 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/1/2020	10/28/2020	5	20	
2	Site Preparation	Site Preparation	10/29/2020	11/11/2020	5	10	
3	Grading	Grading	11/12/2020	12/23/2020	5	30	
4	Building Construction	Building Construction	12/24/2020	3/30/2022	5	330	
5	Paving	Paving	3/31/2022	5/11/2022	5	30	
6	Architectural Coating	Architectural Coating	5/12/2022	8/3/2022	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 8.41

Residential Indoor: 508,275; Residential Outdoor: 169,425; Non-Residential Indoor: 333,810; Non-Residential Outdoor: 111,270; Striped Parking Area: 23,784 (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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Other Construction Equipment	1	8.00	172	0.42

**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
Demolition	6	15.00	0.00	850.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	439.00	128.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	88.00	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

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2016	0.0000	9.2016	1.3932	0.0000	1.3932			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>	<b>9.2016</b>	<b>1.6587</b>	<b>10.8603</b>	<b>1.3932</b>	<b>1.5419</b>	<b>2.9351</b>		<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>

Cypress Town Center - South Coast AQMD Air District, Summer

**3.2 Demolition - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3228	11.5660	2.3014	0.0330	0.7427	0.0373	0.7799	0.2035	0.0357	0.2392		3,562.899 1	3,562.899 1	0.2391		3,568.876 3
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860
<b>Total</b>	<b>0.3907</b>	<b>11.6117</b>	<b>2.9146</b>	<b>0.0347</b>	<b>0.9103</b>	<b>0.0386</b>	<b>0.9489</b>	<b>0.2480</b>	<b>0.0368</b>	<b>0.2848</b>		<b>3,734.561 8</b>	<b>3,734.561 8</b>	<b>0.2440</b>		<b>3,740.662 3</b>

**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					3.5886	0.0000	3.5886	0.5434	0.0000	0.5434			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.704 9	3,747.704 9	1.0580		3,774.153 6
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>	<b>3.5886</b>	<b>1.6587</b>	<b>5.2473</b>	<b>0.5434</b>	<b>1.5419</b>	<b>2.0852</b>	<b>0.0000</b>	<b>3,747.704 9</b>	<b>3,747.704 9</b>	<b>1.0580</b>		<b>3,774.153 6</b>

Cypress Town Center - South Coast AQMD Air District, Summer

**3.2 Demolition - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3228	11.5660	2.3014	0.0330	0.7427	0.0373	0.7799	0.2035	0.0357	0.2392		3,562.899 1	3,562.899 1	0.2391		3,568.876 3
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860
<b>Total</b>	<b>0.3907</b>	<b>11.6117</b>	<b>2.9146</b>	<b>0.0347</b>	<b>0.9103</b>	<b>0.0386</b>	<b>0.9489</b>	<b>0.2480</b>	<b>0.0368</b>	<b>0.2848</b>		<b>3,734.561 8</b>	<b>3,734.561 8</b>	<b>0.2440</b>		<b>3,740.662 3</b>

**3.3 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.101 6	3,685.101 6	1.1918		3,714.897 5
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.101 6</b>	<b>3,685.101 6</b>	<b>1.1918</b>		<b>3,714.897 5</b>



Cypress Town Center - South Coast AQMD Air District, Summer

**3.3 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0814	0.0547	0.7359	2.0700e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		205.9951	205.9951	5.9200e-003		206.1432
<b>Total</b>	<b>0.0814</b>	<b>0.0547</b>	<b>0.7359</b>	<b>2.0700e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>205.9951</b>	<b>205.9951</b>	<b>5.9200e-003</b>		<b>206.1432</b>

**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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>7.0458</b>	<b>2.1974</b>	<b>9.2433</b>	<b>3.8730</b>	<b>2.0216</b>	<b>5.8946</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Cypress Town Center - South Coast AQMD Air District, Summer

**3.3 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0814	0.0547	0.7359	2.0700e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		205.9951	205.9951	5.9200e-003		206.1432
<b>Total</b>	<b>0.0814</b>	<b>0.0547</b>	<b>0.7359</b>	<b>2.0700e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>205.9951</b>	<b>205.9951</b>	<b>5.9200e-003</b>		<b>206.1432</b>

**3.4 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>8.6733</b>	<b>2.1739</b>	<b>10.8472</b>	<b>3.5965</b>	<b>2.0000</b>	<b>5.5965</b>		<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Cypress Town Center - South Coast AQMD Air District, Summer

**3.4 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0905	0.0608	0.8176	2.3000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5600e-003	0.0609		228.8835	228.8835	6.5800e-003		229.0480
<b>Total</b>	<b>0.0905</b>	<b>0.0608</b>	<b>0.8176</b>	<b>2.3000e-003</b>	<b>0.2236</b>	<b>1.7000e-003</b>	<b>0.2253</b>	<b>0.0593</b>	<b>1.5600e-003</b>	<b>0.0609</b>		<b>228.8835</b>	<b>228.8835</b>	<b>6.5800e-003</b>		<b>229.0480</b>

**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					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>3.3826</b>	<b>2.1739</b>	<b>5.5565</b>	<b>1.4026</b>	<b>2.0000</b>	<b>3.4026</b>	<b>0.0000</b>	<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Cypress Town Center - South Coast AQMD Air District, Summer

**3.4 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0905	0.0608	0.8176	2.3000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5600e-003	0.0609		228.8835	228.8835	6.5800e-003		229.0480
<b>Total</b>	<b>0.0905</b>	<b>0.0608</b>	<b>0.8176</b>	<b>2.3000e-003</b>	<b>0.2236</b>	<b>1.7000e-003</b>	<b>0.2253</b>	<b>0.0593</b>	<b>1.5600e-003</b>	<b>0.0609</b>		<b>228.8835</b>	<b>228.8835</b>	<b>6.5800e-003</b>		<b>229.0480</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6085	24.3678	20.9254	0.0330		1.3905	1.3905		1.3019	1.3019		3,145.3088	3,145.3088	0.8144		3,165.6688
<b>Total</b>	<b>2.6085</b>	<b>24.3678</b>	<b>20.9254</b>	<b>0.0330</b>		<b>1.3905</b>	<b>1.3905</b>		<b>1.3019</b>	<b>1.3019</b>		<b>3,145.3088</b>	<b>3,145.3088</b>	<b>0.8144</b>		<b>3,165.6688</b>

Cypress Town Center - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4204	13.4317	3.1984	0.0329	0.8192	0.0665	0.8858	0.2359	0.0637	0.2995		3,512.940 2	3,512.940 2	0.2206		3,518.454 2
Worker	1.9862	1.3351	17.9471	0.0504	4.9070	0.0372	4.9442	1.3014	0.0343	1.3356		5,023.992 6	5,023.992 6	0.1444		5,027.603 7
<b>Total</b>	<b>2.4066</b>	<b>14.7668</b>	<b>21.1455</b>	<b>0.0834</b>	<b>5.7262</b>	<b>0.1038</b>	<b>5.8300</b>	<b>1.5372</b>	<b>0.0980</b>	<b>1.6351</b>		<b>8,536.932 9</b>	<b>8,536.932 9</b>	<b>0.3650</b>		<b>8,546.057 9</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6085	24.3678	20.9254	0.0330		1.3905	1.3905		1.3019	1.3019	0.0000	3,145.308 8	3,145.308 8	0.8144		3,165.668 8
<b>Total</b>	<b>2.6085</b>	<b>24.3678</b>	<b>20.9254</b>	<b>0.0330</b>		<b>1.3905</b>	<b>1.3905</b>		<b>1.3019</b>	<b>1.3019</b>	<b>0.0000</b>	<b>3,145.308 8</b>	<b>3,145.308 8</b>	<b>0.8144</b>		<b>3,165.668 8</b>

Cypress Town Center - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4204	13.4317	3.1984	0.0329	0.8192	0.0665	0.8858	0.2359	0.0637	0.2995		3,512.940 2	3,512.940 2	0.2206		3,518.454 2
Worker	1.9862	1.3351	17.9471	0.0504	4.9070	0.0372	4.9442	1.3014	0.0343	1.3356		5,023.992 6	5,023.992 6	0.1444		5,027.603 7
<b>Total</b>	<b>2.4066</b>	<b>14.7668</b>	<b>21.1455</b>	<b>0.0834</b>	<b>5.7262</b>	<b>0.1038</b>	<b>5.8300</b>	<b>1.5372</b>	<b>0.0980</b>	<b>1.6351</b>		<b>8,536.932 9</b>	<b>8,536.932 9</b>	<b>0.3650</b>		<b>8,546.057 9</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3162	21.7651	20.5859	0.0330		1.1852	1.1852		1.1097	1.1097		3,145.333 1	3,145.333 1	0.8075		3,165.519 8
<b>Total</b>	<b>2.3162</b>	<b>21.7651</b>	<b>20.5859</b>	<b>0.0330</b>		<b>1.1852</b>	<b>1.1852</b>		<b>1.1097</b>	<b>1.1097</b>		<b>3,145.333 1</b>	<b>3,145.333 1</b>	<b>0.8075</b>		<b>3,165.519 8</b>

Cypress Town Center - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3562	12.2081	2.8970	0.0327	0.8192	0.0246	0.8438	0.2358	0.0235	0.2594		3,487.2124	3,487.2124	0.2110		3,492.4860
Worker	1.8531	1.2018	16.5382	0.0488	4.9070	0.0361	4.9431	1.3014	0.0333	1.3346		4,861.5006	4,861.5006	0.1307		4,864.7689
<b>Total</b>	<b>2.2093</b>	<b>13.4099</b>	<b>19.4352</b>	<b>0.0815</b>	<b>5.7262</b>	<b>0.0607</b>	<b>5.7869</b>	<b>1.5372</b>	<b>0.0568</b>	<b>1.5940</b>		<b>8,348.7129</b>	<b>8,348.7129</b>	<b>0.3417</b>		<b>8,357.2549</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3162	21.7651	20.5859	0.0330		1.1852	1.1852		1.1097	1.1097	0.0000	3,145.3331	3,145.3331	0.8075		3,165.5198
<b>Total</b>	<b>2.3162</b>	<b>21.7651</b>	<b>20.5859</b>	<b>0.0330</b>		<b>1.1852</b>	<b>1.1852</b>		<b>1.1097</b>	<b>1.1097</b>	<b>0.0000</b>	<b>3,145.3331</b>	<b>3,145.3331</b>	<b>0.8075</b>		<b>3,165.5198</b>

Cypress Town Center - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3562	12.2081	2.8970	0.0327	0.8192	0.0246	0.8438	0.2358	0.0235	0.2594		3,487.2124	3,487.2124	0.2110		3,492.4860
Worker	1.8531	1.2018	16.5382	0.0488	4.9070	0.0361	4.9431	1.3014	0.0333	1.3346		4,861.5006	4,861.5006	0.1307		4,864.7689
<b>Total</b>	<b>2.2093</b>	<b>13.4099</b>	<b>19.4352</b>	<b>0.0815</b>	<b>5.7262</b>	<b>0.0607</b>	<b>5.7869</b>	<b>1.5372</b>	<b>0.0568</b>	<b>1.5940</b>		<b>8,348.7129</b>	<b>8,348.7129</b>	<b>0.3417</b>		<b>8,357.2549</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0781	19.3890	20.3396	0.0330		1.0059	1.0059		0.9423	0.9423		3,146.1117	3,146.1117	0.8033		3,166.1951
<b>Total</b>	<b>2.0781</b>	<b>19.3890</b>	<b>20.3396</b>	<b>0.0330</b>		<b>1.0059</b>	<b>1.0059</b>		<b>0.9423</b>	<b>0.9423</b>		<b>3,146.1117</b>	<b>3,146.1117</b>	<b>0.8033</b>		<b>3,166.1951</b>



Cypress Town Center - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3340	11.5882	2.7379	0.0324	0.8192	0.0213	0.8405	0.2358	0.0204	0.2562		3,456.7568	3,456.7568	0.2031		3,461.8337
Worker	1.7382	1.0856	15.2927	0.0470	4.9070	0.0351	4.9421	1.3014	0.0323	1.3337		4,687.3081	4,687.3081	0.1182		4,690.2619
<b>Total</b>	<b>2.0722</b>	<b>12.6739</b>	<b>18.0306</b>	<b>0.0794</b>	<b>5.7262</b>	<b>0.0564</b>	<b>5.7826</b>	<b>1.5372</b>	<b>0.0527</b>	<b>1.5899</b>		<b>8,144.0649</b>	<b>8,144.0649</b>	<b>0.3212</b>		<b>8,152.0956</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0781	19.3890	20.3396	0.0330		1.0059	1.0059		0.9423	0.9423	0.0000	3,146.1117	3,146.1117	0.8033		3,166.1951
<b>Total</b>	<b>2.0781</b>	<b>19.3890</b>	<b>20.3396</b>	<b>0.0330</b>		<b>1.0059</b>	<b>1.0059</b>		<b>0.9423</b>	<b>0.9423</b>	<b>0.0000</b>	<b>3,146.1117</b>	<b>3,146.1117</b>	<b>0.8033</b>		<b>3,166.1951</b>

Cypress Town Center - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3340	11.5882	2.7379	0.0324	0.8192	0.0213	0.8405	0.2358	0.0204	0.2562		3,456.7568	3,456.7568	0.2031		3,461.8337
Worker	1.7382	1.0856	15.2927	0.0470	4.9070	0.0351	4.9421	1.3014	0.0323	1.3337		4,687.3081	4,687.3081	0.1182		4,690.2619
<b>Total</b>	<b>2.0722</b>	<b>12.6739</b>	<b>18.0306</b>	<b>0.0794</b>	<b>5.7262</b>	<b>0.0564</b>	<b>5.7826</b>	<b>1.5372</b>	<b>0.0527</b>	<b>1.5899</b>		<b>8,144.0649</b>	<b>8,144.0649</b>	<b>0.3212</b>		<b>8,152.0956</b>

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.6035					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.7063</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

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
<b>Total</b>	<b>0.0594</b>	<b>0.0371</b>	<b>0.5225</b>	<b>1.6100e-003</b>	<b>0.1677</b>	<b>1.2000e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1000e-003</b>	<b>0.0456</b>		<b>160.1586</b>	<b>160.1586</b>	<b>4.0400e-003</b>		<b>160.2595</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.6035					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.7063</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

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
<b>Total</b>	<b>0.0594</b>	<b>0.0371</b>	<b>0.5225</b>	<b>1.6100e-003</b>	<b>0.1677</b>	<b>1.2000e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1000e-003</b>	<b>0.0456</b>		<b>160.1586</b>	<b>160.1586</b>	<b>4.0400e-003</b>		<b>160.2595</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	62.3959					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>62.6005</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Cypress Town Center - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3484	0.2176	3.0655	9.4300e-003	0.9836	7.0300e-003	0.9907	0.2609	6.4800e-003	0.2673		939.5971	939.5971	0.0237		940.1892
<b>Total</b>	<b>0.3484</b>	<b>0.2176</b>	<b>3.0655</b>	<b>9.4300e-003</b>	<b>0.9836</b>	<b>7.0300e-003</b>	<b>0.9907</b>	<b>0.2609</b>	<b>6.4800e-003</b>	<b>0.2673</b>		<b>939.5971</b>	<b>939.5971</b>	<b>0.0237</b>		<b>940.1892</b>

**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	62.3959					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>62.6005</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Cypress Town Center - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3484	0.2176	3.0655	9.4300e-003	0.9836	7.0300e-003	0.9907	0.2609	6.4800e-003	0.2673		939.5971	939.5971	0.0237		940.1892
<b>Total</b>	<b>0.3484</b>	<b>0.2176</b>	<b>3.0655</b>	<b>9.4300e-003</b>	<b>0.9836</b>	<b>7.0300e-003</b>	<b>0.9907</b>	<b>0.2609</b>	<b>6.4800e-003</b>	<b>0.2673</b>		<b>939.5971</b>	<b>939.5971</b>	<b>0.0237</b>		<b>940.1892</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	7.6906	37.8349	89.4822	0.3302	26.5418	0.2531	26.7948	7.1015	0.2361	7.3376		33,632.33 27	33,632.33 27	1.6149		33,672.70 41
Unmitigated	7.6906	37.8349	89.4822	0.3302	26.5418	0.2531	26.7948	7.1015	0.2361	7.3376		33,632.33 27	33,632.33 27	1.6149		33,672.70 41

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,270.06	1,270.06	1270.06	4,339,988	4,339,988
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	933.60	933.60	933.60	2,227,729	2,227,729
Movie Theater (No Matinee)	2,046.00	2,046.00	2046.00	4,335,510	4,335,510
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	730.08	730.08	730.08	1,579,049	1,579,049
<b>Total</b>	<b>4,979.74</b>	<b>4,979.74</b>	<b>4,979.74</b>	<b>12,482,276</b>	<b>12,482,276</b>

4.3 Trip Type Information

Cypress Town Center - South Coast AQMD Air District, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Enclosed Parking with Elevator	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Hotel	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Movie Theater (No Matinee)	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Parking Lot	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Regional Shopping Center	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy



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					
NaturalGas Mitigated	0.2793	2.4927	1.7937	0.0152		0.1930	0.1930		0.1930	0.1930		3,046.692 2	3,046.692 2	0.0584	0.0559	3,064.797 1
NaturalGas Unmitigated	0.2793	2.4927	1.7937	0.0152		0.1930	0.1930		0.1930	0.1930		3,046.692 2	3,046.692 2	0.0584	0.0559	3,064.797 1

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					
Apartments Mid Rise	7858.34	0.0848	0.7242	0.3082	4.6200e-003		0.0586	0.0586		0.0586	0.0586		924.5101	924.5101	0.0177	0.0170	930.0040
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	16349.9	0.1763	1.6029	1.3465	9.6200e-003		0.1218	0.1218		0.1218	0.1218		1,923.5197	1,923.5197	0.0369	0.0353	1,934.9503
Movie Theater (No Matinee)	1574.66	0.0170	0.1544	0.1297	9.3000e-004		0.0117	0.0117		0.0117	0.0117		185.2538	185.2538	3.5500e-003	3.4000e-003	186.3547
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
Regional Shopping Center	113.973	1.2300e-003	0.0112	9.3900e-003	7.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		13.4085	13.4085	2.6000e-004	2.5000e-004	13.4882
<b>Total</b>		<b>0.2793</b>	<b>2.4927</b>	<b>1.7937</b>	<b>0.0152</b>		<b>0.1930</b>	<b>0.1930</b>		<b>0.1930</b>	<b>0.1930</b>		<b>3,046.6922</b>	<b>3,046.6922</b>	<b>0.0584</b>	<b>0.0559</b>	<b>3,064.7971</b>

Cypress Town Center - South Coast AQMD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	7.85834	0.0848	0.7242	0.3082	4.6200e-003		0.0586	0.0586		0.0586	0.0586		924.5101	924.5101	0.0177	0.0170	930.0040
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	16.3499	0.1763	1.6029	1.3465	9.6200e-003		0.1218	0.1218		0.1218	0.1218		1,923.5197	1,923.5197	0.0369	0.0353	1,934.9503
Movie Theater (No Matinee)	1.57466	0.0170	0.1544	0.1297	9.3000e-004		0.0117	0.0117		0.0117	0.0117		185.2538	185.2538	3.5500e-003	3.4000e-003	186.3547
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
Regional Shopping Center	0.113973	1.2300e-003	0.0112	9.3900e-003	7.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		13.4085	13.4085	2.6000e-004	2.5000e-004	13.4882
<b>Total</b>		<b>0.2793</b>	<b>2.4927</b>	<b>1.7937</b>	<b>0.0152</b>		<b>0.1930</b>	<b>0.1930</b>		<b>0.1930</b>	<b>0.1930</b>		<b>3,046.6922</b>	<b>3,046.6922</b>	<b>0.0584</b>	<b>0.0559</b>	<b>3,064.7971</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	11.1792	0.2401	20.8469	1.1000e-003		0.1150	0.1150		0.1150	0.1150	0.0000	37.5365	37.5365	0.0366	0.0000	38.4523
Unmitigated	11.1792	0.2401	20.8469	1.1000e-003		0.1150	0.1150		0.1150	0.1150	0.0000	37.5365	37.5365	0.0366	0.0000	38.4523

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	1.0257					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.5165					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6370	0.2401	20.8469	1.1000e-003		0.1150	0.1150		0.1150	0.1150		37.5365	37.5365	0.0366		38.4523
<b>Total</b>	<b>11.1792</b>	<b>0.2401</b>	<b>20.8469</b>	<b>1.1000e-003</b>		<b>0.1150</b>	<b>0.1150</b>		<b>0.1150</b>	<b>0.1150</b>	<b>0.0000</b>	<b>37.5365</b>	<b>37.5365</b>	<b>0.0366</b>	<b>0.0000</b>	<b>38.4523</b>

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	1.0257					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.5165					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6370	0.2401	20.8469	1.1000e-003		0.1150	0.1150		0.1150	0.1150		37.5365	37.5365	0.0366		38.4523
<b>Total</b>	<b>11.1792</b>	<b>0.2401</b>	<b>20.8469</b>	<b>1.1000e-003</b>		<b>0.1150</b>	<b>0.1150</b>		<b>0.1150</b>	<b>0.1150</b>	<b>0.0000</b>	<b>37.5365</b>	<b>37.5365</b>	<b>0.0366</b>	<b>0.0000</b>	<b>38.4523</b>

**7.0 Water Detail**

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**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**

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**8.1 Mitigation Measures Waste**

Cypress Town Center - South Coast AQMD Air District, Summer

**9.0 Operational Offroad**

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

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**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**

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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
Enclosed Parking with Elevator	414.00	Space	1.50	165,600.00	0
Parking Lot	577.00	Space	6.91	230,800.00	0
Hotel	120.00	Room	0.90	174,240.00	0
Movie Theater (No Matinee)	10.00	Screen	0.99	27,500.00	0
Apartments Mid Rise	251.00	Dwelling Unit	2.50	251,000.00	718
Regional Shopping Center	20.80	1000sqft	0.48	20,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	8			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	502.65	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**





## Cypress Town Center - South Coast AQMD Air District, Annual

tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	300.00	330.00
tblConstructionPhase	NumDays	20.00	30.00
tblFireplaces	NumberGas	213.35	0.00
tblFireplaces	NumberNoFireplace	25.10	0.00
tblFireplaces	NumberWood	12.55	0.00
tblLandUse	LotAcreage	3.73	1.50
tblLandUse	LotAcreage	5.19	6.91
tblLandUse	LotAcreage	4.00	0.90
tblLandUse	LotAcreage	0.63	0.99
tblLandUse	LotAcreage	6.61	2.50
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblProjectCharacteristics	CO2IntensityFactor	702.44	502.65
tblVehicleTrips	ST_TR	6.39	5.06
tblVehicleTrips	ST_TR	8.19	7.78
tblVehicleTrips	ST_TR	376.00	204.60
tblVehicleTrips	ST_TR	49.97	35.10
tblVehicleTrips	SU_TR	5.86	5.06
tblVehicleTrips	SU_TR	5.95	7.78
tblVehicleTrips	SU_TR	314.00	204.60
tblVehicleTrips	SU_TR	25.24	35.10
tblVehicleTrips	WD_TR	6.65	5.06
tblVehicleTrips	WD_TR	8.17	7.78
tblVehicleTrips	WD_TR	220.00	204.60
tblVehicleTrips	WD_TR	42.70	35.10
tblWoodstoves	NumberCatalytic	12.55	0.00

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tblWoodstoves	:	NumberNoncatalytic	:	12.55	:	0.00
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**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					
2020	0.1409	1.5368	0.9715	2.2300e-003	0.3426	0.0651	0.4076	0.1257	0.0601	0.1858	0.0000	200.8582	200.8582	0.0470	0.0000	202.0334
2021	0.5886	4.6331	5.0836	0.0146	0.7338	0.1626	0.8965	0.1973	0.1523	0.3496	0.0000	1,327.6837	1,327.6837	0.1361	0.0000	1,331.0854
2022	2.0452	1.2363	1.5424	4.1800e-003	0.2086	0.0447	0.2532	0.0560	0.0419	0.0978	0.0000	378.9920	378.9920	0.0430	0.0000	380.0676
<b>Maximum</b>	<b>2.0452</b>	<b>4.6331</b>	<b>5.0836</b>	<b>0.0146</b>	<b>0.7338</b>	<b>0.1626</b>	<b>0.8965</b>	<b>0.1973</b>	<b>0.1523</b>	<b>0.3496</b>	<b>0.0000</b>	<b>1,327.6837</b>	<b>1,327.6837</b>	<b>0.1361</b>	<b>0.0000</b>	<b>1,331.0854</b>

**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					
2020	0.1409	1.5368	0.9715	2.2300e-003	0.1520	0.0651	0.2170	0.0540	0.0601	0.1141	0.0000	200.8581	200.8581	0.0470	0.0000	202.0333
2021	0.5886	4.6331	5.0836	0.0146	0.7338	0.1626	0.8965	0.1973	0.1523	0.3496	0.0000	1,327.6832	1,327.6832	0.1361	0.0000	1,331.0849
2022	2.0452	1.2363	1.5424	4.1800e-003	0.2086	0.0447	0.2532	0.0560	0.0419	0.0978	0.0000	378.9918	378.9918	0.0430	0.0000	380.0675
<b>Maximum</b>	<b>2.0452</b>	<b>4.6331</b>	<b>5.0836</b>	<b>0.0146</b>	<b>0.7338</b>	<b>0.1626</b>	<b>0.8965</b>	<b>0.1973</b>	<b>0.1523</b>	<b>0.3496</b>	<b>0.0000</b>	<b>1,327.6832</b>	<b>1,327.6832</b>	<b>0.1361</b>	<b>0.0000</b>	<b>1,331.0849</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	14.83	0.00	12.24	18.92	0.00	11.32	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	10-1-2020	12-31-2020	1.6693	1.6693
2	1-1-2021	3-31-2021	1.2846	1.2846
3	4-1-2021	6-30-2021	1.2903	1.2903
4	7-1-2021	9-30-2021	1.3044	1.3044
5	10-1-2021	12-31-2021	1.3132	1.3132
6	1-1-2022	3-31-2022	1.1633	1.1633
7	4-1-2022	6-30-2022	1.3424	1.3424
8	7-1-2022	9-30-2022	0.7841	0.7841
		Highest	1.6693	1.6693

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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	2.0036	0.0300	2.6059	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2566	4.2566	4.1500e-003	0.0000	4.3604
Energy	0.0510	0.4549	0.3274	2.7800e-003		0.0352	0.0352		0.0352	0.0352	0.0000	1,437.9420	1,437.9420	0.0635	0.0204	1,445.6066
Mobile	1.2943	7.1012	15.6182	0.0577	4.7430	0.0462	4.7892	1.2710	0.0431	1.3140	0.0000	5,336.4146	5,336.4146	0.2659	0.0000	5,343.0624
Waste						0.0000	0.0000		0.0000	0.0000	73.0260	0.0000	73.0260	4.3157	0.0000	180.9188
Water						0.0000	0.0000		0.0000	0.0000	10.1466	126.0983	136.2448	1.0494	0.0261	170.2620
<b>Total</b>	<b>3.3489</b>	<b>7.5862</b>	<b>18.5515</b>	<b>0.0606</b>	<b>4.7430</b>	<b>0.0957</b>	<b>4.8387</b>	<b>1.2710</b>	<b>0.0926</b>	<b>1.3636</b>	<b>83.1726</b>	<b>6,904.7114</b>	<b>6,987.8840</b>	<b>5.6987</b>	<b>0.0465</b>	<b>7,144.2103</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.0036	0.0300	2.6059	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2566	4.2566	4.1500e-003	0.0000	4.3604
Energy	0.0510	0.4549	0.3274	2.7800e-003		0.0352	0.0352		0.0352	0.0352	0.0000	1,437.9420	1,437.9420	0.0635	0.0204	1,445.6066
Mobile	1.2943	7.1012	15.6182	0.0577	4.7430	0.0462	4.7892	1.2710	0.0431	1.3140	0.0000	5,336.4146	5,336.4146	0.2659	0.0000	5,343.0624
Waste						0.0000	0.0000		0.0000	0.0000	73.0260	0.0000	73.0260	4.3157	0.0000	180.9188
Water						0.0000	0.0000		0.0000	0.0000	8.1172	105.2085	113.3257	0.8398	0.0209	140.5611
<b>Total</b>	<b>3.3489</b>	<b>7.5862</b>	<b>18.5515</b>	<b>0.0606</b>	<b>4.7430</b>	<b>0.0957</b>	<b>4.8387</b>	<b>1.2710</b>	<b>0.0926</b>	<b>1.3636</b>	<b>81.1432</b>	<b>6,883.8216</b>	<b>6,964.9649</b>	<b>5.4891</b>	<b>0.0413</b>	<b>7,114.5094</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>2.44</b>	<b>0.30</b>	<b>0.33</b>	<b>3.68</b>	<b>11.12</b>	<b>0.42</b>

**3.0 Construction Detail**

**Construction Phase**

## Cypress Town Center - South Coast AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/1/2020	10/28/2020	5	20	
2	Site Preparation	Site Preparation	10/29/2020	11/11/2020	5	10	
3	Grading	Grading	11/12/2020	12/23/2020	5	30	
4	Building Construction	Building Construction	12/24/2020	3/30/2022	5	330	
5	Paving	Paving	3/31/2022	5/11/2022	5	30	
6	Architectural Coating	Architectural Coating	5/12/2022	8/3/2022	5	60	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 8.41**

**Residential Indoor: 508,275; Residential Outdoor: 169,425; Non-Residential Indoor: 333,810; Non-Residential Outdoor: 111,270; Striped Parking Area: 23,784 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Cypress Town Center - South Coast AQMD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Other Construction Equipment	1	8.00	172	0.42

Trips and VMT



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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	850.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	439.00	128.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	88.00	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

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0920	0.0000	0.0920	0.0139	0.0000	0.0139	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386
<b>Total</b>	<b>0.0331</b>	<b>0.3320</b>	<b>0.2175</b>	<b>3.9000e-004</b>	<b>0.0920</b>	<b>0.0166</b>	<b>0.1086</b>	<b>0.0139</b>	<b>0.0154</b>	<b>0.0294</b>	<b>0.0000</b>	<b>33.9986</b>	<b>33.9986</b>	<b>9.6000e-003</b>	<b>0.0000</b>	<b>34.2386</b>

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**3.2 Demolition - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2700e-003	0.1193	0.0238	3.3000e-004	7.3100e-003	3.8000e-004	7.6800e-003	2.0100e-003	3.6000e-004	2.3600e-003	0.0000	32.0722	32.0722	2.2100e-003	0.0000	32.1275
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	5.1000e-004	5.6800e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4815	1.4815	4.0000e-005	0.0000	1.4826
<b>Total</b>	<b>3.9400e-003</b>	<b>0.1198</b>	<b>0.0295</b>	<b>3.5000e-004</b>	<b>8.9600e-003</b>	<b>3.9000e-004</b>	<b>9.3400e-003</b>	<b>2.4500e-003</b>	<b>3.7000e-004</b>	<b>2.8100e-003</b>	<b>0.0000</b>	<b>33.5537</b>	<b>33.5537</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>33.6100</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0359	0.0000	0.0359	5.4300e-003	0.0000	5.4300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385
<b>Total</b>	<b>0.0331</b>	<b>0.3320</b>	<b>0.2175</b>	<b>3.9000e-004</b>	<b>0.0359</b>	<b>0.0166</b>	<b>0.0525</b>	<b>5.4300e-003</b>	<b>0.0154</b>	<b>0.0209</b>	<b>0.0000</b>	<b>33.9986</b>	<b>33.9986</b>	<b>9.6000e-003</b>	<b>0.0000</b>	<b>34.2385</b>

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**3.2 Demolition - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2700e-003	0.1193	0.0238	3.3000e-004	7.3100e-003	3.8000e-004	7.6800e-003	2.0100e-003	3.6000e-004	2.3600e-003	0.0000	32.0722	32.0722	2.2100e-003	0.0000	32.1275
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	5.1000e-004	5.6800e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4815	1.4815	4.0000e-005	0.0000	1.4826
<b>Total</b>	<b>3.9400e-003</b>	<b>0.1198</b>	<b>0.0295</b>	<b>3.5000e-004</b>	<b>8.9600e-003</b>	<b>3.9000e-004</b>	<b>9.3400e-003</b>	<b>2.4500e-003</b>	<b>3.7000e-004</b>	<b>2.8100e-003</b>	<b>0.0000</b>	<b>33.5537</b>	<b>33.5537</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>33.6100</b>

**3.3 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
<b>Total</b>	<b>0.0204</b>	<b>0.2121</b>	<b>0.1076</b>	<b>1.9000e-004</b>	<b>0.0903</b>	<b>0.0110</b>	<b>0.1013</b>	<b>0.0497</b>	<b>0.0101</b>	<b>0.0598</b>	<b>0.0000</b>	<b>16.7153</b>	<b>16.7153</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8505</b>

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**3.3 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	3.1000e-004	3.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8889	0.8889	3.0000e-005	0.0000	0.8895
<b>Total</b>	<b>4.0000e-004</b>	<b>3.1000e-004</b>	<b>3.4100e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.8889</b>	<b>0.8889</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.8895</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0352	0.0000	0.0352	0.0194	0.0000	0.0194	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
<b>Total</b>	<b>0.0204</b>	<b>0.2121</b>	<b>0.1076</b>	<b>1.9000e-004</b>	<b>0.0352</b>	<b>0.0110</b>	<b>0.0462</b>	<b>0.0194</b>	<b>0.0101</b>	<b>0.0295</b>	<b>0.0000</b>	<b>16.7153</b>	<b>16.7153</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8505</b>

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**3.3 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	3.1000e-004	3.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8889	0.8889	3.0000e-005	0.0000	0.8895
<b>Total</b>	<b>4.0000e-004</b>	<b>3.1000e-004</b>	<b>3.4100e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.8889</b>	<b>0.8889</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.8895</b>

**3.4 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0668	0.7530	0.4794	9.3000e-004		0.0326	0.0326		0.0300	0.0300	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872
<b>Total</b>	<b>0.0668</b>	<b>0.7530</b>	<b>0.4794</b>	<b>9.3000e-004</b>	<b>0.1301</b>	<b>0.0326</b>	<b>0.1627</b>	<b>0.0540</b>	<b>0.0300</b>	<b>0.0840</b>	<b>0.0000</b>	<b>81.7264</b>	<b>81.7264</b>	<b>0.0264</b>	<b>0.0000</b>	<b>82.3872</b>

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**3.4 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.3400e-003	1.0300e-003	0.0114	3.0000e-005	3.2900e-003	3.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9630	2.9630	9.0000e-005	0.0000	2.9651
<b>Total</b>	<b>1.3400e-003</b>	<b>1.0300e-003</b>	<b>0.0114</b>	<b>3.0000e-005</b>	<b>3.2900e-003</b>	<b>3.0000e-005</b>	<b>3.3200e-003</b>	<b>8.7000e-004</b>	<b>2.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>2.9630</b>	<b>2.9630</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.9651</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0507	0.0000	0.0507	0.0210	0.0000	0.0210	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0668	0.7530	0.4794	9.3000e-004		0.0326	0.0326		0.0300	0.0300	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871
<b>Total</b>	<b>0.0668</b>	<b>0.7530</b>	<b>0.4794</b>	<b>9.3000e-004</b>	<b>0.0507</b>	<b>0.0326</b>	<b>0.0834</b>	<b>0.0210</b>	<b>0.0300</b>	<b>0.0510</b>	<b>0.0000</b>	<b>81.7263</b>	<b>81.7263</b>	<b>0.0264</b>	<b>0.0000</b>	<b>82.3871</b>

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**3.4 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.3400e-003	1.0300e-003	0.0114	3.0000e-005	3.2900e-003	3.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9630	2.9630	9.0000e-005	0.0000	2.9651
<b>Total</b>	<b>1.3400e-003</b>	<b>1.0300e-003</b>	<b>0.0114</b>	<b>3.0000e-005</b>	<b>3.2900e-003</b>	<b>3.0000e-005</b>	<b>3.3200e-003</b>	<b>8.7000e-004</b>	<b>2.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>2.9630</b>	<b>2.9630</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.9651</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.8300e-003	0.0731	0.0628	1.0000e-004		4.1700e-003	4.1700e-003		3.9100e-003	3.9100e-003	0.0000	8.5601	8.5601	2.2200e-003	0.0000	8.6155
<b>Total</b>	<b>7.8300e-003</b>	<b>0.0731</b>	<b>0.0628</b>	<b>1.0000e-004</b>		<b>4.1700e-003</b>	<b>4.1700e-003</b>		<b>3.9100e-003</b>	<b>3.9100e-003</b>	<b>0.0000</b>	<b>8.5601</b>	<b>8.5601</b>	<b>2.2200e-003</b>	<b>0.0000</b>	<b>8.6155</b>

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**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.2900e-003	0.0410	0.0102	1.0000e-004	2.4200e-003	2.0000e-004	2.6200e-003	7.0000e-004	1.9000e-004	8.9000e-004	0.0000	9.4446	9.4446	6.2000e-004	0.0000	9.4601
Worker	5.8800e-003	4.5100e-003	0.0499	1.4000e-004	0.0145	1.1000e-004	0.0146	3.8400e-003	1.0000e-004	3.9400e-003	0.0000	13.0076	13.0076	3.7000e-004	0.0000	13.0169
<b>Total</b>	<b>7.1700e-003</b>	<b>0.0455</b>	<b>0.0600</b>	<b>2.4000e-004</b>	<b>0.0169</b>	<b>3.1000e-004</b>	<b>0.0172</b>	<b>4.5400e-003</b>	<b>2.9000e-004</b>	<b>4.8300e-003</b>	<b>0.0000</b>	<b>22.4521</b>	<b>22.4521</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>22.4769</b>

**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	7.8300e-003	0.0731	0.0628	1.0000e-004		4.1700e-003	4.1700e-003		3.9100e-003	3.9100e-003	0.0000	8.5601	8.5601	2.2200e-003	0.0000	8.6155
<b>Total</b>	<b>7.8300e-003</b>	<b>0.0731</b>	<b>0.0628</b>	<b>1.0000e-004</b>		<b>4.1700e-003</b>	<b>4.1700e-003</b>		<b>3.9100e-003</b>	<b>3.9100e-003</b>	<b>0.0000</b>	<b>8.5601</b>	<b>8.5601</b>	<b>2.2200e-003</b>	<b>0.0000</b>	<b>8.6155</b>



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**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.2900e-003	0.0410	0.0102	1.0000e-004	2.4200e-003	2.0000e-004	2.6200e-003	7.0000e-004	1.9000e-004	8.9000e-004	0.0000	9.4446	9.4446	6.2000e-004	0.0000	9.4601
Worker	5.8800e-003	4.5100e-003	0.0499	1.4000e-004	0.0145	1.1000e-004	0.0146	3.8400e-003	1.0000e-004	3.9400e-003	0.0000	13.0076	13.0076	3.7000e-004	0.0000	13.0169
<b>Total</b>	<b>7.1700e-003</b>	<b>0.0455</b>	<b>0.0600</b>	<b>2.4000e-004</b>	<b>0.0169</b>	<b>3.1000e-004</b>	<b>0.0172</b>	<b>4.5400e-003</b>	<b>2.9000e-004</b>	<b>4.8300e-003</b>	<b>0.0000</b>	<b>22.4521</b>	<b>22.4521</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>22.4769</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3023	2.8403	2.6865	4.3100e-003		0.1547	0.1547		0.1448	0.1448	0.0000	372.3685	372.3685	0.0956	0.0000	374.7583
<b>Total</b>	<b>0.3023</b>	<b>2.8403</b>	<b>2.6865</b>	<b>4.3100e-003</b>		<b>0.1547</b>	<b>0.1547</b>		<b>0.1448</b>	<b>0.1448</b>	<b>0.0000</b>	<b>372.3685</b>	<b>372.3685</b>	<b>0.0956</b>	<b>0.0000</b>	<b>374.7583</b>

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**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0475	1.6163	0.4007	4.2100e-003	0.1053	3.2500e-003	0.1085	0.0304	3.1100e-003	0.0335	0.0000	407.8223	407.8223	0.0258	0.0000	408.4671
Worker	0.2388	0.1765	1.9964	6.0600e-003	0.6285	4.7100e-003	0.6333	0.1669	4.3400e-003	0.1713	0.0000	547.4929	547.4929	0.0147	0.0000	547.8599
<b>Total</b>	<b>0.2863</b>	<b>1.7928</b>	<b>2.3972</b>	<b>0.0103</b>	<b>0.7338</b>	<b>7.9600e-003</b>	<b>0.7418</b>	<b>0.1973</b>	<b>7.4500e-003</b>	<b>0.2048</b>	<b>0.0000</b>	<b>955.3152</b>	<b>955.3152</b>	<b>0.0405</b>	<b>0.0000</b>	<b>956.3271</b>

**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	0.3023	2.8403	2.6865	4.3100e-003		0.1547	0.1547		0.1448	0.1448	0.0000	372.3680	372.3680	0.0956	0.0000	374.7579
<b>Total</b>	<b>0.3023</b>	<b>2.8403</b>	<b>2.6865</b>	<b>4.3100e-003</b>		<b>0.1547</b>	<b>0.1547</b>		<b>0.1448</b>	<b>0.1448</b>	<b>0.0000</b>	<b>372.3680</b>	<b>372.3680</b>	<b>0.0956</b>	<b>0.0000</b>	<b>374.7579</b>

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**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0475	1.6163	0.4007	4.2100e-003	0.1053	3.2500e-003	0.1085	0.0304	3.1100e-003	0.0335	0.0000	407.8223	407.8223	0.0258	0.0000	408.4671
Worker	0.2388	0.1765	1.9964	6.0600e-003	0.6285	4.7100e-003	0.6333	0.1669	4.3400e-003	0.1713	0.0000	547.4929	547.4929	0.0147	0.0000	547.8599
<b>Total</b>	<b>0.2863</b>	<b>1.7928</b>	<b>2.3972</b>	<b>0.0103</b>	<b>0.7338</b>	<b>7.9600e-003</b>	<b>0.7418</b>	<b>0.1973</b>	<b>7.4500e-003</b>	<b>0.2048</b>	<b>0.0000</b>	<b>955.3152</b>	<b>955.3152</b>	<b>0.0405</b>	<b>0.0000</b>	<b>956.3271</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0655	0.6108	0.6407	1.0400e-003		0.0317	0.0317		0.0297	0.0297	0.0000	89.9043	89.9043	0.0230	0.0000	90.4782
<b>Total</b>	<b>0.0655</b>	<b>0.6108</b>	<b>0.6407</b>	<b>1.0400e-003</b>		<b>0.0317</b>	<b>0.0317</b>		<b>0.0297</b>	<b>0.0297</b>	<b>0.0000</b>	<b>89.9043</b>	<b>89.9043</b>	<b>0.0230</b>	<b>0.0000</b>	<b>90.4782</b>

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**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0108	0.3699	0.0914	1.0100e-003	0.0254	6.8000e-004	0.0261	7.3300e-003	6.5000e-004	7.9800e-003	0.0000	97.5732	97.5732	5.9900e-003	0.0000	97.7229
Worker	0.0541	0.0385	0.4450	1.4100e-003	0.1517	1.1100e-003	0.1528	0.0403	1.0200e-003	0.0413	0.0000	127.4154	127.4154	3.2000e-003	0.0000	127.4954
<b>Total</b>	<b>0.0649</b>	<b>0.4084</b>	<b>0.5364</b>	<b>2.4200e-003</b>	<b>0.1771</b>	<b>1.7900e-003</b>	<b>0.1789</b>	<b>0.0476</b>	<b>1.6700e-003</b>	<b>0.0493</b>	<b>0.0000</b>	<b>224.9885</b>	<b>224.9885</b>	<b>9.1900e-003</b>	<b>0.0000</b>	<b>225.2183</b>

**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	0.0655	0.6108	0.6407	1.0400e-003		0.0317	0.0317		0.0297	0.0297	0.0000	89.9042	89.9042	0.0230	0.0000	90.4781
<b>Total</b>	<b>0.0655</b>	<b>0.6108</b>	<b>0.6407</b>	<b>1.0400e-003</b>		<b>0.0317</b>	<b>0.0317</b>		<b>0.0297</b>	<b>0.0297</b>	<b>0.0000</b>	<b>89.9042</b>	<b>89.9042</b>	<b>0.0230</b>	<b>0.0000</b>	<b>90.4781</b>

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**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0108	0.3699	0.0914	1.0100e-003	0.0254	6.8000e-004	0.0261	7.3300e-003	6.5000e-004	7.9800e-003	0.0000	97.5732	97.5732	5.9900e-003	0.0000	97.7229
Worker	0.0541	0.0385	0.4450	1.4100e-003	0.1517	1.1100e-003	0.1528	0.0403	1.0200e-003	0.0413	0.0000	127.4154	127.4154	3.2000e-003	0.0000	127.4954
<b>Total</b>	<b>0.0649</b>	<b>0.4084</b>	<b>0.5364</b>	<b>2.4200e-003</b>	<b>0.1771</b>	<b>1.7900e-003</b>	<b>0.1789</b>	<b>0.0476</b>	<b>1.6700e-003</b>	<b>0.0493</b>	<b>0.0000</b>	<b>224.9885</b>	<b>224.9885</b>	<b>9.1900e-003</b>	<b>0.0000</b>	<b>225.2183</b>

**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	0.0165	0.1669	0.2187	3.4000e-004		8.5200e-003	8.5200e-003		7.8400e-003	7.8400e-003	0.0000	30.0413	30.0413	9.7200e-003	0.0000	30.2842
Paving	9.0500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0256</b>	<b>0.1669</b>	<b>0.2187</b>	<b>3.4000e-004</b>		<b>8.5200e-003</b>	<b>8.5200e-003</b>		<b>7.8400e-003</b>	<b>7.8400e-003</b>	<b>0.0000</b>	<b>30.0413</b>	<b>30.0413</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>30.2842</b>

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**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	8.8000e-004	6.3000e-004	7.2400e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.0731	2.0731	5.0000e-005	0.0000	2.0745
<b>Total</b>	<b>8.8000e-004</b>	<b>6.3000e-004</b>	<b>7.2400e-003</b>	<b>2.0000e-005</b>	<b>2.4700e-003</b>	<b>2.0000e-005</b>	<b>2.4900e-003</b>	<b>6.6000e-004</b>	<b>2.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.0731</b>	<b>2.0731</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.0745</b>

**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	0.0165	0.1669	0.2187	3.4000e-004		8.5200e-003	8.5200e-003		7.8400e-003	7.8400e-003	0.0000	30.0413	30.0413	9.7200e-003	0.0000	30.2842
Paving	9.0500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0256</b>	<b>0.1669</b>	<b>0.2187</b>	<b>3.4000e-004</b>		<b>8.5200e-003</b>	<b>8.5200e-003</b>		<b>7.8400e-003</b>	<b>7.8400e-003</b>	<b>0.0000</b>	<b>30.0413</b>	<b>30.0413</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>30.2842</b>

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**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	8.8000e-004	6.3000e-004	7.2400e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.0731	2.0731	5.0000e-005	0.0000	2.0745
<b>Total</b>	<b>8.8000e-004</b>	<b>6.3000e-004</b>	<b>7.2400e-003</b>	<b>2.0000e-005</b>	<b>2.4700e-003</b>	<b>2.0000e-005</b>	<b>2.4900e-003</b>	<b>6.6000e-004</b>	<b>2.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.0731</b>	<b>2.0731</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.0745</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.8719					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1400e-003	0.0423	0.0544	9.0000e-005		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	7.6598	7.6598	5.0000e-004	0.0000	7.6722
<b>Total</b>	<b>1.8780</b>	<b>0.0423</b>	<b>0.0544</b>	<b>9.0000e-005</b>		<b>2.4500e-003</b>	<b>2.4500e-003</b>		<b>2.4500e-003</b>	<b>2.4500e-003</b>	<b>0.0000</b>	<b>7.6598</b>	<b>7.6598</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>7.6722</b>

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**3.7 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0103	7.3500e-003	0.0850	2.7000e-004	0.0290	2.1000e-004	0.0292	7.6900e-003	1.9000e-004	7.8900e-003	0.0000	24.3249	24.3249	6.1000e-004	0.0000	24.3402
<b>Total</b>	<b>0.0103</b>	<b>7.3500e-003</b>	<b>0.0850</b>	<b>2.7000e-004</b>	<b>0.0290</b>	<b>2.1000e-004</b>	<b>0.0292</b>	<b>7.6900e-003</b>	<b>1.9000e-004</b>	<b>7.8900e-003</b>	<b>0.0000</b>	<b>24.3249</b>	<b>24.3249</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>24.3402</b>

**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	1.8719					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1400e-003	0.0423	0.0544	9.0000e-005		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	7.6598	7.6598	5.0000e-004	0.0000	7.6722
<b>Total</b>	<b>1.8780</b>	<b>0.0423</b>	<b>0.0544</b>	<b>9.0000e-005</b>		<b>2.4500e-003</b>	<b>2.4500e-003</b>		<b>2.4500e-003</b>	<b>2.4500e-003</b>	<b>0.0000</b>	<b>7.6598</b>	<b>7.6598</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>7.6722</b>



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**3.7 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0103	7.3500e-003	0.0850	2.7000e-004	0.0290	2.1000e-004	0.0292	7.6900e-003	1.9000e-004	7.8900e-003	0.0000	24.3249	24.3249	6.1000e-004	0.0000	24.3402
<b>Total</b>	<b>0.0103</b>	<b>7.3500e-003</b>	<b>0.0850</b>	<b>2.7000e-004</b>	<b>0.0290</b>	<b>2.1000e-004</b>	<b>0.0292</b>	<b>7.6900e-003</b>	<b>1.9000e-004</b>	<b>7.8900e-003</b>	<b>0.0000</b>	<b>24.3249</b>	<b>24.3249</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>24.3402</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	1.2943	7.1012	15.6182	0.0577	4.7430	0.0462	4.7892	1.2710	0.0431	1.3140	0.0000	5,336.4146	5,336.4146	0.2659	0.0000	5,343.0624
Unmitigated	1.2943	7.1012	15.6182	0.0577	4.7430	0.0462	4.7892	1.2710	0.0431	1.3140	0.0000	5,336.4146	5,336.4146	0.2659	0.0000	5,343.0624

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,270.06	1,270.06	1270.06	4,339,988	4,339,988
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	933.60	933.60	933.60	2,227,729	2,227,729
Movie Theater (No Matinee)	2,046.00	2,046.00	2046.00	4,335,510	4,335,510
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	730.08	730.08	730.08	1,579,049	1,579,049
Total	4,979.74	4,979.74	4,979.74	12,482,276	12,482,276

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Enclosed Parking with Elevator	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Hotel	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Movie Theater (No Matinee)	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Parking Lot	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Regional Shopping Center	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	933.5279	933.5279	0.0539	0.0111	938.1951
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	933.5279	933.5279	0.0539	0.0111	938.1951
NaturalGas Mitigated	0.0510	0.4549	0.3274	2.7800e-003			0.0352	0.0352		0.0352	0.0000	504.4141	504.4141	9.6700e-003	9.2500e-003	507.4115
NaturalGas Unmitigated	0.0510	0.4549	0.3274	2.7800e-003			0.0352	0.0352		0.0352	0.0000	504.4141	504.4141	9.6700e-003	9.2500e-003	507.4115

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.86829e+006	0.0155	0.1322	0.0562	8.4000e-004		0.0107	0.0107		0.0107	0.0107	0.0000	153.0630	153.0630	2.9300e-003	2.8100e-003	153.9726
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	5.96772e+006	0.0322	0.2925	0.2457	1.7600e-003		0.0222	0.0222		0.0222	0.0222	0.0000	318.4603	318.4603	6.1000e-003	5.8400e-003	320.3527
Movie Theater (No Matinee)	574750	3.1000e-003	0.0282	0.0237	1.7000e-004		2.1400e-003	2.1400e-003		2.1400e-003	2.1400e-003	0.0000	30.6709	30.6709	5.9000e-004	5.6000e-004	30.8531
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
Regional Shopping Center	41600	2.2000e-004	2.0400e-003	1.7100e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.2199	2.2199	4.0000e-005	4.0000e-005	2.2331
<b>Total</b>		<b>0.0510</b>	<b>0.4549</b>	<b>0.3274</b>	<b>2.7800e-003</b>		<b>0.0352</b>	<b>0.0352</b>		<b>0.0352</b>	<b>0.0352</b>	<b>0.0000</b>	<b>504.4141</b>	<b>504.4141</b>	<b>9.6600e-003</b>	<b>9.2500e-003</b>	<b>507.4116</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.86829e+006	0.0155	0.1322	0.0562	8.4000e-004		0.0107	0.0107		0.0107	0.0107	0.0000	153.0630	153.0630	2.9300e-003	2.8100e-003	153.9726
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	5.96772e+006	0.0322	0.2925	0.2457	1.7600e-003		0.0222	0.0222		0.0222	0.0222	0.0000	318.4603	318.4603	6.1000e-003	5.8400e-003	320.3527
Movie Theater (No Matinee)	574750	3.1000e-003	0.0282	0.0237	1.7000e-004		2.1400e-003	2.1400e-003		2.1400e-003	2.1400e-003	0.0000	30.6709	30.6709	5.9000e-004	5.6000e-004	30.8531
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
Regional Shopping Center	41600	2.2000e-004	2.0400e-003	1.7100e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.2199	2.2199	4.0000e-005	4.0000e-005	2.2331
<b>Total</b>		<b>0.0510</b>	<b>0.4549</b>	<b>0.3274</b>	<b>2.7800e-003</b>		<b>0.0352</b>	<b>0.0352</b>		<b>0.0352</b>	<b>0.0352</b>	<b>0.0000</b>	<b>504.4141</b>	<b>504.4141</b>	<b>9.6600e-003</b>	<b>9.2500e-003</b>	<b>507.4116</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	997800	227.4967	0.0131	2.7200e-003	228.6341
Enclosed Parking with Elevator	970416	221.2531	0.0128	2.6400e-003	222.3593
Hotel	1.57513e+006	359.1267	0.0207	4.2900e-003	360.9222
Movie Theater (No Matinee)	232375	52.9811	3.0600e-003	6.3000e-004	53.2460
Parking Lot	80780	18.4177	1.0600e-003	2.2000e-004	18.5098
Regional Shopping Center	237952	54.2526	3.1300e-003	6.5000e-004	54.5239
<b>Total</b>		<b>933.5279</b>	<b>0.0539</b>	<b>0.0112</b>	<b>938.1951</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	997800	227.4967	0.0131	2.7200e-003	228.6341
Enclosed Parking with Elevator	970416	221.2531	0.0128	2.6400e-003	222.3593
Hotel	1.57513e+006	359.1267	0.0207	4.2900e-003	360.9222
Movie Theater (No Matinee)	232375	52.9811	3.0600e-003	6.3000e-004	53.2460
Parking Lot	80780	18.4177	1.0600e-003	2.2000e-004	18.5098
Regional Shopping Center	237952	54.2526	3.1300e-003	6.5000e-004	54.5239
<b>Total</b>		<b>933.5279</b>	<b>0.0539</b>	<b>0.0112</b>	<b>938.1951</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.0036	0.0300	2.6059	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2566	4.2566	4.1500e-003	0.0000	4.3604
Unmitigated	2.0036	0.0300	2.6059	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2566	4.2566	4.1500e-003	0.0000	4.3604

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	0.1872					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7368					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0796	0.0300	2.6059	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2566	4.2566	4.1500e-003	0.0000	4.3604
<b>Total</b>	<b>2.0036</b>	<b>0.0300</b>	<b>2.6059</b>	<b>1.4000e-004</b>		<b>0.0144</b>	<b>0.0144</b>		<b>0.0144</b>	<b>0.0144</b>	<b>0.0000</b>	<b>4.2566</b>	<b>4.2566</b>	<b>4.1500e-003</b>	<b>0.0000</b>	<b>4.3604</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1872					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7368					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0796	0.0300	2.6059	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2566	4.2566	4.1500e-003	0.0000	4.3604
<b>Total</b>	<b>2.0036</b>	<b>0.0300</b>	<b>2.6059</b>	<b>1.4000e-004</b>		<b>0.0144</b>	<b>0.0144</b>		<b>0.0144</b>	<b>0.0144</b>	<b>0.0000</b>	<b>4.2566</b>	<b>4.2566</b>	<b>4.1500e-003</b>	<b>0.0000</b>	<b>4.3604</b>

**7.0 Water Detail**

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**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

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	113.3257	0.8398	0.0209	140.5611
Unmitigated	136.2448	1.0494	0.0261	170.2620

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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	16.3537 / 10.3099	79.8541	0.5372	0.0135	97.2991
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	3.04401 / 0.338224	10.8594	0.0998	2.4600e-003	14.0866
Movie Theater (No Matinee)	11.044 / 0.704939	38.0766	0.3619	8.9100e-003	49.7784
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.54071 / 0.944305	7.4548	0.0506	1.2700e-003	9.0980
<b>Total</b>		<b>136.2448</b>	<b>1.0494</b>	<b>0.0261</b>	<b>170.2620</b>

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**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	13.0829 / 9.68101	67.5133	0.4300	0.0108	81.4875
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	2.43521 / 0.317592	8.8066	0.0798	1.9700e-003	11.3889
Movie Theater (No Matinee)	8.83523 / 0.661937	30.7095	0.2895	7.1300e-003	40.0722
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.23257 / 0.886703	6.2963	0.0405	1.0200e-003	7.6125
<b>Total</b>		<b>113.3257</b>	<b>0.8398</b>	<b>0.0209</b>	<b>140.5611</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	73.0260	4.3157	0.0000	180.9188
Unmitigated	73.0260	4.3157	0.0000	180.9188

## Cypress Town Center - South Coast AQMD Air District, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	115.46	23.4373	1.3851	0.0000	58.0650
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	65.7	13.3365	0.7882	0.0000	33.0406
Movie Theater (No Matinee)	156.75	31.8188	1.8804	0.0000	78.8298
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	21.84	4.4333	0.2620	0.0000	10.9834
<b>Total</b>		<b>73.0260</b>	<b>4.3157</b>	<b>0.0000</b>	<b>180.9188</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	115.46	23.4373	1.3851	0.0000	58.0650
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	65.7	13.3365	0.7882	0.0000	33.0406
Movie Theater (No Matinee)	156.75	31.8188	1.8804	0.0000	78.8298
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	21.84	4.4333	0.2620	0.0000	10.9834
<b>Total</b>		<b>73.0260</b>	<b>4.3157</b>	<b>0.0000</b>	<b>180.9188</b>

**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**



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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**

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