Appendix C:
Air Quality, Energy, and Greenhouse Gas Modeling Worksheets

Cypress Village Project

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	176.00	Space	1.58	115,407.00	0
City Park	2.21	Acre	2.21	96,267.60	0
Fast Food Restaurant with Drive Thru	7.00	1000sqft	0.16	7,000.00	0
Single Family Housing	61.00	Dwelling Unit	19.81	126,905.00	174
Regional Shopping Center	6.00	1000sqft	0.14	6,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	513	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2018 CO2 intensity from the 2018 SCE Sustainability Report (Pg. 10).

Land Use - Per site plan dated 11/21/19.

Construction Phase - Anticipated Construction Schedule for both the Commercial & Residential Project components.

Off-road Equipment -

Off-road Equipment - Ancitipated Equipment List

Off-road Equipment - Anticipated Construction Equipment.

Off-road Equipment - Anticipated Construction Equipment.

Off-road Equipment - Anticipated construction equipment.

Demolition -

Grading -

Architectural Coating - SCAQMD Rule 1113

Vehicle Trips - 3,716 net new daily trips

Woodstoves -

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Mobile Land Use Mitigation -

Area Mitigation - SCAQMD Rule 445 prohibits the installation of any open or enclosed permanently installed wood burning device.

Energy Mitigation - Per the 2019 Title 24 Code update which includes PV solar panels.

Water Mitigation - 2017 CalGreen Standards.

Waste Mitigation - AB 341

Trips and VMT -

Water And Wastewater -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26

tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	528.00
tblConstructionPhase	NumDays	370.00	528.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	35.00	44.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	PhaseEndDate	7/13/2022	3/13/2023
tblConstructionPhase	PhaseEndDate	5/18/2022	3/13/2023
tblConstructionPhase	PhaseEndDate	10/28/2020	10/30/2020
tblConstructionPhase	PhaseEndDate	12/16/2020	12/31/2020
tblConstructionPhase	PhaseEndDate	6/15/2022	3/3/2021
tblConstructionPhase	PhaseStartDate	6/16/2022	3/4/2021
tblConstructionPhase	PhaseStartDate	12/17/2020	3/4/2021
tblConstructionPhase	PhaseStartDate	10/29/2020	10/31/2020
tblConstructionPhase	PhaseStartDate	5/19/2022	1/1/2021
tblGrading	MaterialImported	0.00	450.00
tblLandUse	LandUseSquareFeet	70,400.00	115,407.00
tblLandUse	LandUseSquareFeet	109,800.00	126,905.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblProjectCharacteristics	CO2IntensityFactor	702.44	513
tblTripsAndVMT	WorkerTripNumber	18.00	23.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	722.03	434.00
tblVehicleTrips	ST_TR	49.97	17.00
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	542.72	434.00
tblVehicleTrips	SU_TR	25.24	17.00
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	496.12	434.00
tblVehicleTrips	WD_TR	42.70	17.00
tblVehicleTrips	WD_TR	9.52	9.44

2.0 Emissions Summary

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	3.6827	41.3302	23.0919	0.0607	7.8374	1.7078	9.5453	3.5416	1.5713	5.1129	0.0000	6,033.8288	6,033.8288	1.6309	0.0000	6,061.9827
2021	5.0952	27.0906	27.3251	0.0590	1.8290	1.3291	3.1581	0.4913	1.2500	1.7413	0.0000	5,801.7492	5,801.7492	0.9737	0.0000	5,823.2276
2022	4.8189	24.7726	26.6333	0.0584	1.8290	1.1501	2.9791	0.4913	1.0818	1.5731	0.0000	5,740.1548	5,740.1548	0.8472	0.0000	5,761.3352
2023	4.5862	22.2901	25.9963	0.0575	1.8290	1.0103	2.8393	0.4913	0.9500	1.4413	0.0000	5,653.2871	5,653.2871	0.8292	0.0000	5,674.0170
Maximum	**5.0952**	**41.3302**	**27.3251**	**0.0607**	**7.8374**	**1.7078**	**9.5453**	**3.5416**	**1.5713**	**5.1129**	**0.0000**	**6,033.8288**	**6,033.8288**	**1.6309**	**0.0000**	**6,061.9827**

2.1 Overall Construction (Maximum Daily Emission)

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	3.6827	41.3302	23.0919	0.0607	2.9946	1.7078	4.7024	1.3374	1.5713	2.9086	0.0000	6,033.8288	6,033.8288	1.6309	0.0000	6,061.9827
2021	5.0952	27.0906	27.3251	0.0590	1.4268	1.3291	2.7559	0.3926	1.2500	1.6426	0.0000	5,801.7492	5,801.7492	0.9737	0.0000	5,823.2276
2022	4.8189	24.7726	26.6333	0.0584	1.4268	1.1501	2.5769	0.3926	1.0818	1.4744	0.0000	5,740.1548	5,740.1548	0.8472	0.0000	5,761.3352
2023	4.5862	22.2901	25.9963	0.0575	1.4268	1.0103	2.4371	0.3926	0.9500	1.3426	0.0000	5,653.2871	5,653.2871	0.8292	0.0000	5,674.0170
Maximum	**5.0952**	**41.3302**	**27.3251**	**0.0607**	**2.9946**	**1.7078**	**4.7024**	**1.3374**	**1.5713**	**2.9086**	**0.0000**	**6,033.8288**	**6,033.8288**	**1.6309**	**0.0000**	**6,061.9827**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**45.40**	**0.00**	**32.66**	**49.85**	**0.00**	**25.34**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	19.2130	1.3239	36.0749	0.0794		4.6876	4.6876		4.6876	4.6876	571.3820	1,107.1035	1,678.4856	1.7128	0.0388	1,732.8623
Energy	0.0975	0.8597	0.5467	5.3200e-003		0.0674	0.0674		0.0674	0.0674		1,064.0161	1,064.0161	0.0204	0.0195	1,070.3390
Mobile	4.3841	17.6885	41.9227	0.1384	11.4519	0.1121	11.5640	3.0646	0.1042	3.1688		14,122.4031	14,122.4031	0.7867		14,142.0709
Total	**23.6946**	**19.8720**	**78.5443**	**0.2231**	**11.4519**	**4.8671**	**16.3190**	**3.0646**	**4.8593**	**7.9238**	**571.3820**	**16,293.5227**	**16,864.9047**	**2.5199**	**0.0583**	**16,945.2722**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.3354	0.9689	5.4408	6.0800e-003		0.1016	0.1016		0.1016	0.1016	0.0000	1,171.6918	1,171.6918	0.0311	0.0213	1,178.8210
Energy	0.0726	0.6437	0.4367	3.9600e-003		0.0501	0.0501		0.0501	0.0501		791.6643	791.6643	0.0152	0.0145	796.3687
Mobile	4.3351	17.4250	40.7200	0.1331	10.9614	0.1083	11.0696	2.9333	0.1006	3.0340		13,586.1428	13,586.1428	0.7628		13,605.2116
Total	**7.7431**	**19.0376**	**46.5974**	**0.1432**	**10.9614**	**0.2600**	**11.2213**	**2.9333**	**0.2523**	**3.1857**	**0.0000**	**15,549.4989**	**15,549.4989**	**0.8090**	**0.0358**	**15,580.4014**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**67.32**	**4.20**	**40.67**	**35.84**	**4.28**	**94.66**	**31.24**	**4.28**	**94.81**	**59.80**	**100.00**	**4.57**	**7.80**	**67.89**	**38.55**	**8.05**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/1/2020	10/30/2020	5	22	
2	Grading	Grading	10/31/2020	12/31/2020	5	44	
3	Building Construction	Building Construction	3/4/2021	3/13/2023	5	528	
4	Paving	Paving	1/1/2021	3/3/2021	5	44	
5	Architectural Coating	Architectural Coating	3/4/2021	3/13/2023	5	528	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 66

Acres of Paving: 1.58

Residential Indoor: 256,983; Residential Outdoor: 85,661; Non-Residential Indoor: 19,500; Non-Residential Outdoor: 6,500; Striped Parking Area: 6,924 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Crawler Tractors	1	8.00	212	0.43
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Excavators	1	8.00	158	0.38
Demolition	Graders	1	8.00	187	0.41

Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	1	8.00	367	0.48
Grading	Surfacing Equipment	1	8.00	263	0.30
Grading	Tractors/Loaders/Backhoes	1	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	Trenchers	1	8.00	78	0.50
Building Construction	Welders	1	8.00	46	0.45
Paving	Graders	1	8.00	187	0.41
Paving	Other Construction Equipment	1	8.00	172	0.42
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Paving	Rubber Tired Dozers	0		247	0.40
Paving	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	7	23.00	0.00	448.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	56.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	116.00	43.00	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	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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					4.4094	0.0000	4.4094	0.6676	0.0000	0.6676			0.0000			0.0000
Off-Road	2.8545	29.7983	19.5362	0.0423		1.3183	1.3183		1.2479	1.2479		4,066.3487	4,066.3487	0.9952		4,091.2285
Total	**2.8545**	**29.7983**	**19.5362**	**0.0423**	**4.4094**	**1.3183**	**5.7276**	**0.6676**	**1.2479**	**1.9155**		**4,066.3487**	**4,066.3487**	**0.9952**		**4,091.2285**

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	0.1822	5.9312	1.3789	0.0158	0.3561	0.0190	0.3750	0.0976	0.0182	0.1158		1,712.7734	1,712.7734	0.1229		1,715.8468
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	0.1175	0.0834	0.9223	2.5600e-003	0.2571	2.1500e-003	0.2592	0.0682	1.9800e-003	0.0702		254.7067	254.7067	8.0300e-003		254.9074
Total	**0.2997**	**6.0145**	**2.3013**	**0.0184**	**0.6131**	**0.0211**	**0.6343**	**0.1658**	**0.0201**	**0.1859**		**1,967.4801**	**1,967.4801**	**0.1310**		**1,970.7542**

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					1.6337	0.0000	1.6337	0.2474	0.0000	0.2474			0.0000			0.0000
Off-Road	2.8545	29.7983	19.5362	0.0423		1.3183	1.3183		1.2479	1.2479	0.0000	4,066.3487	4,066.3487	0.9952		4,091.2285
Total	**2.8545**	**29.7983**	**19.5362**	**0.0423**	**1.6337**	**1.3183**	**2.9519**	**0.2474**	**1.2479**	**1.4953**	**0.0000**	**4,066.3487**	**4,066.3487**	**0.9952**		**4,091.2285**

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	0.1822	5.9312	1.3789	0.0158	0.2861	0.0190	0.3050	0.0804	0.0182	0.0986		1,712.7734	1,712.7734	0.1229		1,715.8468
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	0.1175	0.0834	0.9223	2.5600e-003	0.1990	2.1500e-003	0.2011	0.0539	1.9800e-003	0.0559		254.7067	254.7067	8.0300e-003		254.9074
Total	**0.2997**	**6.0145**	**2.3013**	**0.0184**	**0.4850**	**0.0211**	**0.5061**	**0.1343**	**0.0201**	**0.1545**		**1,967.4801**	**1,967.4801**	**0.1310**		**1,970.7542**

3.3 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					7.6140	0.0000	7.6140	3.4822	0.0000	3.4822			0.0000			0.0000
Off-Road	3.5793	40.8943	22.2839	0.0516		1.7050	1.7050		1.5686	1.5686		4,999.4279	4,999.4279	1.6169		5,039.8508
Total	**3.5793**	**40.8943**	**22.2839**	**0.0516**	**7.6140**	**1.7050**	**9.3190**	**3.4822**	**1.5686**	**5.0507**		**4,999.4279**	**4,999.4279**	**1.6169**		**5,039.8508**

3.3 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	0.0114	0.3707	0.0862	9.9000e-004	0.0223	1.1900e-003	0.0234	6.1000e-003	1.1300e-003	7.2300e-003		107.0483	107.0483	7.6800e-003		107.2404
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	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.1034**	**0.4359**	**0.8080**	**2.9900e-003**	**0.2235**	**2.8700e-003**	**0.2263**	**0.0595**	**2.6800e-003**	**0.0621**		**306.3840**	**306.3840**	**0.0140**		**306.7332**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8210	0.0000	2.8210	1.2901	0.0000	1.2901			0.0000			0.0000
Off-Road	3.5793	40.8943	22.2839	0.0516		1.7050	1.7050		1.5686	1.5686	0.0000	4,999.4279	4,999.4279	1.6169		5,039.8508
Total	**3.5793**	**40.8943**	**22.2839**	**0.0516**	**2.8210**	**1.7050**	**4.5260**	**1.2901**	**1.5686**	**2.8587**	**0.0000**	**4,999.4279**	**4,999.4279**	**1.6169**		**5,039.8508**

3.3 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	0.0114	0.3707	0.0862	9.9000e-004	0.0179	1.1900e-003	0.0191	5.0300e-003	1.1300e-003	6.1600e-003		107.0483	107.0483	7.6800e-003		107.2404
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	0.0920	0.0652	0.7218	2.0000e-003	0.1557	1.6800e-003	0.1574	0.0422	1.5500e-003	0.0438		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.1034**	**0.4359**	**0.8080**	**2.9900e-003**	**0.1736**	**2.8700e-003**	**0.1765**	**0.0472**	**2.6800e-003**	**0.0499**		**306.3840**	**306.3840**	**0.0140**		**306.7332**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2834	20.9442	19.1815	0.0303		1.2136	1.2136		1.1359	1.1359		2,880.2864	2,880.2864	0.7218		2,898.3301
Total	**2.2834**	**20.9442**	**19.1815**	**0.0303**		**1.2136**	**1.2136**		**1.1359**	**1.1359**		**2,880.2864**	**2,880.2864**	**0.7218**		**2,898.3301**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1372	4.1662	1.2073	0.0108	0.2753	8.8100e-003	0.2841	0.0793	8.4300e-003	0.0877		1,149.5858	1,149.5858	0.0742		1,151.4411
Worker	0.5531	0.3783	4.2718	0.0125	1.2966	0.0105	1.3071	0.3439	9.6500e-003	0.3535		1,243.8113	1,243.8113	0.0366		1,244.7263
Total	**0.6903**	**4.5446**	**5.4791**	**0.0232**	**1.5719**	**0.0193**	**1.5912**	**0.4231**	**0.0181**	**0.4412**		**2,393.3970**	**2,393.3970**	**0.1108**		**2,396.1674**

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	2.2834	20.9442	19.1815	0.0303		1.2136	1.2136		1.1359	1.1359	0.0000	2,880.2864	2,880.2864	0.7218		2,898.3301
Total	**2.2834**	**20.9442**	**19.1815**	**0.0303**		**1.2136**	**1.2136**		**1.1359**	**1.1359**	**0.0000**	**2,880.2864**	**2,880.2864**	**0.7218**		**2,898.3301**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1372	4.1662	1.2073	0.0108	0.2243	8.8100e-003	0.2331	0.0667	8.4300e-003	0.0752		1,149.5858	1,149.5858	0.0742		1,151.4411
Worker	0.5531	0.3783	4.2718	0.0125	1.0035	0.0105	1.0140	0.2719	9.6500e-003	0.2816		1,243.8113	1,243.8113	0.0366		1,244.7263
Total	**0.6903**	**4.5446**	**5.4791**	**0.0232**	**1.2278**	**0.0193**	**1.2471**	**0.3387**	**0.0181**	**0.3568**		**2,393.3970**	**2,393.3970**	**0.1108**		**2,396.1674**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0701	18.9953	18.9624	0.0303		1.0485	1.0485		0.9815	0.9815		2,881.2830	2,881.2830	0.7177		2,899.2252
Total	**2.0701**	**18.9953**	**18.9624**	**0.0303**		**1.0485**	**1.0485**		**0.9815**	**0.9815**		**2,881.2830**	**2,881.2830**	**0.7177**		**2,899.2252**

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1288	3.9594	1.1428	0.0107	0.2753	7.7100e-003	0.2830	0.0793	7.3700e-003	0.0866		1,139.3722	1,139.3722	0.0716		1,141.1624
Worker	0.5195	0.3417	3.9345	0.0120	1.2966	0.0102	1.3068	0.3439	9.3500e-003	0.3532		1,200.1006	1,200.1006	0.0330		1,200.9267
Total	**0.6483**	**4.3011**	**5.0773**	**0.0227**	**1.5719**	**0.0179**	**1.5898**	**0.4231**	**0.0167**	**0.4398**		**2,339.4728**	**2,339.4728**	**0.1047**		**2,342.0890**

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	2.0701	18.9953	18.9624	0.0303		1.0485	1.0485		0.9815	0.9815	0.0000	2,881.2830	2,881.2830	0.7177		2,899.2252
Total	**2.0701**	**18.9953**	**18.9624**	**0.0303**		**1.0485**	**1.0485**		**0.9815**	**0.9815**	**0.0000**	**2,881.2830**	**2,881.2830**	**0.7177**		**2,899.2252**

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1288	3.9594	1.1428	0.0107	0.2243	7.7100e-003	0.2320	0.0668	7.3700e-003	0.0741		1,139.3722	1,139.3722	0.0716		1,141.1624
Worker	0.5195	0.3417	3.9345	0.0120	1.0035	0.0102	1.0137	0.2719	9.3500e-003	0.2813		1,200.1006	1,200.1006	0.0330		1,200.9267
Total	**0.6483**	**4.3011**	**5.0773**	**0.0227**	**1.2278**	**0.0179**	**1.2457**	**0.3387**	**0.0167**	**0.3554**		**2,339.4728**	**2,339.4728**	**0.1047**		**2,342.0890**

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9194	17.6181	18.8361	0.0303		0.9240	0.9240		0.8648	0.8648		2,882.4098	2,882.4098	0.7137		2,900.2515
Total	**1.9194**	**17.6181**	**18.8361**	**0.0303**		**0.9240**	**0.9240**		**0.8648**	**0.8648**		**2,882.4098**	**2,882.4098**	**0.7137**		**2,900.2515**

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0957	2.9988	1.0155	0.0103	0.2753	3.6600e-003	0.2790	0.0793	3.5000e-003	0.0828		1,103.9876	1,103.9876	0.0630		1,105.5636
Worker	0.4894	0.3090	3.6165	0.0116	1.2966	9.8600e-003	1.3065	0.3439	9.0800e-003	0.3530		1,156.1959	1,156.1959	0.0298		1,156.9397
Total	**0.5851**	**3.3078**	**4.6320**	**0.0219**	**1.5719**	**0.0135**	**1.5854**	**0.4231**	**0.0126**	**0.4357**		**2,260.1835**	**2,260.1835**	**0.0928**		**2,262.5033**

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	1.9194	17.6181	18.8361	0.0303		0.9240	0.9240		0.8648	0.8648	0.0000	2,882.4098	2,882.4098	0.7137		2,900.2515
Total	**1.9194**	**17.6181**	**18.8361**	**0.0303**		**0.9240**	**0.9240**		**0.8648**	**0.8648**	**0.0000**	**2,882.4098**	**2,882.4098**	**0.7137**		**2,900.2515**

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0957	2.9988	1.0155	0.0103	0.2243	3.6600e-003	0.2280	0.0668	3.5000e-003	0.0703		1,103.9876	1,103.9876	0.0630		1,105.5636
Worker	0.4894	0.3090	3.6165	0.0116	1.0035	9.8600e-003	1.0134	0.2719	9.0800e-003	0.2810		1,156.1959	1,156.1959	0.0298		1,156.9397
Total	**0.5851**	**3.3078**	**4.6320**	**0.0219**	**1.2278**	**0.0135**	**1.2414**	**0.3387**	**0.0126**	**0.3513**		**2,260.1835**	**2,260.1835**	**0.0928**		**2,262.5033**

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8414	20.6004	15.1274	0.0309		0.8786	0.8786		0.8083	0.8083		2,995.8514	2,995.8514	0.9689		3,020.0744
Paving	0.0941					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.9355**	**20.6004**	**15.1274**	**0.0309**		**0.8786**	**0.8786**		**0.8083**	**0.8083**		**2,995.8514**	**2,995.8514**	**0.9689**		**3,020.0744**

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

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	1.8414	20.6004	15.1274	0.0309		0.8786	0.8786		0.8083	0.8083	0.0000	2,995.8514	2,995.8514	0.9689		3,020.0744
Paving	0.0941					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.9355**	**20.6004**	**15.1274**	**0.0309**		**0.8786**	**0.8786**		**0.8083**	**0.8083**	**0.0000**	**2,995.8514**	**2,995.8514**	**0.9689**		**3,020.0744**

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1298	1.3500e-003	0.1311	0.0352	1.2500e-003	0.0364		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1298**	**1.3500e-003**	**0.1311**	**0.0352**	**1.2500e-003**	**0.0364**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.7930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**2.0119**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1097	0.0750	0.8470	2.4800e-003	0.2571	2.0800e-003	0.2592	0.0682	1.9100e-003	0.0701		246.6178	246.6178	7.2600e-003		246.7992
Total	**0.1097**	**0.0750**	**0.8470**	**2.4800e-003**	**0.2571**	**2.0800e-003**	**0.2592**	**0.0682**	**1.9100e-003**	**0.0701**		**246.6178**	**246.6178**	**7.2600e-003**		**246.7992**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.7930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**2.0119**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1097	0.0750	0.8470	2.4800e-003	0.1990	2.0800e-003	0.2011	0.0539	1.9100e-003	0.0558		246.6178	246.6178	7.2600e-003		246.7992
Total	**0.1097**	**0.0750**	**0.8470**	**2.4800e-003**	**0.1990**	**2.0800e-003**	**0.2011**	**0.0539**	**1.9100e-003**	**0.0558**		**246.6178**	**246.6178**	**7.2600e-003**		**246.7992**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.7930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**1.9975**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.6 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	0.1030	0.0677	0.7801	2.3900e-003	0.2571	2.0100e-003	0.2591	0.0682	1.8500e-003	0.0700		237.9510	237.9510	6.5500e-003		238.1148
Total	**0.1030**	**0.0677**	**0.7801**	**2.3900e-003**	**0.2571**	**2.0100e-003**	**0.2591**	**0.0682**	**1.8500e-003**	**0.0700**		**237.9510**	**237.9510**	**6.5500e-003**		**238.1148**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.7930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**1.9975**	**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**

3.6 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	0.1030	0.0677	0.7801	2.3900e-003	0.1990	2.0100e-003	0.2010	0.0539	1.8500e-003	0.0558		237.9510	237.9510	6.5500e-003		238.1148
Total	**0.1030**	**0.0677**	**0.7801**	**2.3900e-003**	**0.1990**	**2.0100e-003**	**0.2010**	**0.0539**	**1.8500e-003**	**0.0558**		**237.9510**	**237.9510**	**6.5500e-003**		**238.1148**

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.7930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**1.9846**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0970	0.0613	0.7171	2.3000e-003	0.2571	1.9600e-003	0.2590	0.0682	1.8000e-003	0.0700		229.2457	229.2457	5.9000e-003		229.3932
Total	**0.0970**	**0.0613**	**0.7171**	**2.3000e-003**	**0.2571**	**1.9600e-003**	**0.2590**	**0.0682**	**1.8000e-003**	**0.0700**		**229.2457**	**229.2457**	**5.9000e-003**		**229.3932**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.7930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**1.9846**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0970	0.0613	0.7171	2.3000e-003	0.1990	1.9600e-003	0.2009	0.0539	1.8000e-003	0.0557		229.2457	229.2457	5.9000e-003		229.3932
Total	**0.0970**	**0.0613**	**0.7171**	**2.3000e-003**	**0.1990**	**1.9600e-003**	**0.2009**	**0.0539**	**1.8000e-003**	**0.0557**		**229.2457**	**229.2457**	**5.9000e-003**		**229.3932**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.3351	17.4250	40.7200	0.1331	10.9614	0.1083	11.0696	2.9333	0.1006	3.0340		13,586.1428	13,586.1428	0.7628		13,605.2116
Unmitigated	4.3841	17.6885	41.9227	0.1384	11.4519	0.1121	11.5640	3.0646	0.1042	3.1688		14,122.4031	14,122.4031	0.7867		14,142.0709

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	3,038.00	3,038.00	3038.00	3,197,153	3,060,223
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	102.00	102.00	102.00	220,610	211,162
Single Family Housing	575.84	575.84	575.84	1,967,733	1,883,457
Total	3,715.84	3,715.84	3,715.84	5,385,496	5,154,841

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Fast Food Restaurant with Drive Thru	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Fast Food Restaurant with Drive Thru	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Parking Lot	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Regional Shopping Center	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Single Family Housing	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0726	0.6437	0.4367	3.9600e-003		0.0501	0.0501		0.0501	0.0501		791.6643	791.6643	0.0152	0.0145	796.3687
NaturalGas Unmitigated	0.0975	0.8597	0.5467	5.3200e-003		0.0674	0.0674		0.0674	0.0674		1,064.0161	1,064.0161	0.0204	0.0195	1,070.3390

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	4425.53	0.0477	0.4339	0.3645	2.6000e-003		0.0330	0.0330		0.0330	0.0330		520.6511	520.6511	9.9800e-003	9.5500e-003	523.7451
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	26.9589	2.9000e-004	2.6400e-003	2.2200e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		3.1716	3.1716	6.0000e-005	6.0000e-005	3.1905
Single Family Housing	4591.64	0.0495	0.4232	0.1801	2.7000e-003		0.0342	0.0342		0.0342	0.0342		540.1934	540.1934	0.0104	9.9000e-003	543.4035
Total		**0.0975**	**0.8597**	**0.5467**	**5.3200e-003**		**0.0674**	**0.0674**		**0.0674**	**0.0674**		**1,064.0161**	**1,064.0161**	**0.0204**	**0.0195**	**1,070.3390**

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	3.98867	0.0430	0.3911	0.3285	2.3500e-003		0.0297	0.0297		0.0297	0.0297		469.2552	469.2552	8.9900e-003	8.6000e-003	472.0437
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	0.0169397	1.8000e-004	1.6600e-003	1.4000e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		1.9929	1.9929	4.0000e-005	4.0000e-005	2.0048
Single Family Housing	2.72354	0.0294	0.2510	0.1068	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.4162	320.4162	6.1400e-003	5.8700e-003	322.3203
Total		**0.0726**	**0.6437**	**0.4367**	**3.9600e-003**		**0.0501**	**0.0501**		**0.0501**	**0.0501**		**791.6643**	**791.6643**	**0.0152**	**0.0145**	**796.3687**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.3354	0.9689	5.4408	6.0800e-003		0.1016	0.1016		0.1016	0.1016	0.0000	1,171.6918	1,171.6918	0.0311	0.0213	1,178.8210
Unmitigated	19.2130	1.3239	36.0749	0.0794		4.6876	4.6876		4.6876	4.6876	571.3820	1,107.1035	1,678.4856	1.7128	0.0388	1,732.8623

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2594					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8160					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	15.9842	1.2657	31.0217	0.0791		4.6597	4.6597		4.6597	4.6597	571.3820	1,098.0000	1,669.3820	1.7040	0.0388	1,723.5382
Landscaping	0.1535	0.0582	5.0532	2.7000e-004		0.0279	0.0279		0.0279	0.0279		9.1035	9.1035	8.8200e-003		9.3241
Total	**19.2130**	**1.3239**	**36.0749**	**0.0794**		**4.6876**	**4.6876**		**4.6876**	**4.6876**	**571.3820**	**1,107.1035**	**1,678.4856**	**1.7128**	**0.0388**	**1,732.8623**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2594					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8160					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1066	0.9107	0.3875	5.8100e-003		0.0736	0.0736		0.0736	0.0736	0.0000	1,162.5882	1,162.5882	0.0223	0.0213	1,169.4969
Landscaping	0.1535	0.0582	5.0532	2.7000e-004		0.0279	0.0279		0.0279	0.0279		9.1035	9.1035	8.8200e-003		9.3241
Total	**3.3354**	**0.9689**	**5.4408**	**6.0800e-003**		**0.1016**	**0.1016**		**0.1016**	**0.1016**	**0.0000**	**1,171.6918**	**1,171.6918**	**0.0311**	**0.0213**	**1,178.8211**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Cypress Village Project

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	176.00	Space	1.58	115,407.00	0
City Park	2.21	Acre	2.21	96,267.60	0
Fast Food Restaurant with Drive Thru	7.00	1000sqft	0.16	7,000.00	0
Single Family Housing	61.00	Dwelling Unit	19.81	126,905.00	174
Regional Shopping Center	6.00	1000sqft	0.14	6,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	513	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2018 CO2 intensity from the 2018 SCE Sustainability Report (Pg. 10).

Land Use - Per site plan dated 11/21/19.

Construction Phase - Anticipated Construction Schedule for both the Commercial & Residential Project components.

Off-road Equipment -

Off-road Equipment - Ancitipated Equipment List

Off-road Equipment - Anticipated Construction Equipment.

Off-road Equipment - Anticipated Construction Equipment.

Off-road Equipment - Anticipated construction equipment.

Demolition -

Grading -

Architectural Coating - SCAQMD Rule 1113

Vehicle Trips - 3,716 net new daily trips

Woodstoves -

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Mobile Land Use Mitigation -

Area Mitigation - SCAQMD Rule 445 prohibits the installation of any open or enclosed permanently installed wood burning device.

Energy Mitigation - Per the 2019 Title 24 Code update which includes PV solar panels.

Water Mitigation - 2017 CalGreen Standards.

Waste Mitigation - AB 341

Trips and VMT -

Water And Wastewater -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26

Cypress Village Project - Los Angeles-South Coast County, Summer

tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	35.00	44.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	370.00	528.00
tblConstructionPhase	NumDays	20.00	528.00
tblConstructionPhase	PhaseEndDate	10/28/2020	10/30/2020
tblConstructionPhase	PhaseEndDate	12/16/2020	12/31/2020
tblConstructionPhase	PhaseEndDate	6/15/2022	3/3/2021
tblConstructionPhase	PhaseEndDate	5/18/2022	3/13/2023
tblConstructionPhase	PhaseEndDate	7/13/2022	3/13/2023
tblConstructionPhase	PhaseStartDate	10/29/2020	10/31/2020
tblConstructionPhase	PhaseStartDate	5/19/2022	1/1/2021
tblConstructionPhase	PhaseStartDate	12/17/2020	3/4/2021
tblConstructionPhase	PhaseStartDate	6/16/2022	3/4/2021
tblGrading	MaterialImported	0.00	450.00
tblLandUse	LandUseSquareFeet	70,400.00	115,407.00
tblLandUse	LandUseSquareFeet	109,800.00	126,905.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblProjectCharacteristics	CO2IntensityFactor	702.44	513
tblTripsAndVMT	WorkerTripNumber	18.00	23.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	722.03	434.00
tblVehicleTrips	ST_TR	49.97	17.00
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	542.72	434.00
tblVehicleTrips	SU_TR	25.24	17.00
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	496.12	434.00
tblVehicleTrips	WD_TR	42.70	17.00
tblVehicleTrips	WD_TR	9.52	9.44

2.0 Emissions Summary

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	3.6733	41.3192	23.1532	0.0611	7.8374	1.7078	9.5453	3.5416	1.5712	5.1129	0.0000	6,079.6394	6,079.6394	1.6310	0.0000	6,107.6981
2021	5.0218	27.0554	27.6890	0.0602	1.8290	1.3288	3.1578	0.4913	1.2497	1.7410	0.0000	5,926.6113	5,926.6113	0.9740	0.0000	5,948.0447
2022	4.7484	24.7439	26.9739	0.0596	1.8290	1.1498	2.9788	0.4913	1.0815	1.5728	0.0000	5,861.6305	5,861.6305	0.8454	0.0000	5,882.7655
2023	4.5192	22.2682	26.3366	0.0586	1.8290	1.0101	2.8391	0.4913	0.9498	1.4411	0.0000	5,769.9498	5,769.9498	0.8281	0.0000	5,790.6522
Maximum	**5.0218**	**41.3192**	**27.6890**	**0.0611**	**7.8374**	**1.7078**	**9.5453**	**3.5416**	**1.5712**	**5.1129**	**0.0000**	**6,079.6394**	**6,079.6394**	**1.6310**	**0.0000**	**6,107.6981**

2.1 Overall Construction (Maximum Daily Emission)

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	3.6733	41.3192	23.1532	0.0611	2.9946	1.7078	4.7024	1.3374	1.5712	2.9086	0.0000	6,079.6394	6,079.6394	1.6310	0.0000	6,107.6981
2021	5.0218	27.0554	27.6890	0.0602	1.4268	1.3288	2.7556	0.3926	1.2497	1.6423	0.0000	5,926.6113	5,926.6113	0.9740	0.0000	5,948.0447
2022	4.7484	24.7439	26.9739	0.0596	1.4268	1.1498	2.5766	0.3926	1.0815	1.4741	0.0000	5,861.6305	5,861.6305	0.8454	0.0000	5,882.7655
2023	4.5192	22.2682	26.3366	0.0586	1.4268	1.0101	2.4370	0.3926	0.9498	1.3424	0.0000	5,769.9498	5,769.9498	0.8281	0.0000	5,790.6522
Maximum	**5.0218**	**41.3192**	**27.6890**	**0.0611**	**2.9946**	**1.7078**	**4.7024**	**1.3374**	**1.5712**	**2.9086**	**0.0000**	**6,079.6394**	**6,079.6394**	**1.6310**	**0.0000**	**6,107.6981**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**45.40**	**0.00**	**32.66**	**49.85**	**0.00**	**25.34**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	19.2130	1.3239	36.0749	0.0794		4.6876	4.6876		4.6876	4.6876	571.3820	1,107.1035	1,678.4856	1.7128	0.0388	1,732.8623
Energy	0.0975	0.8597	0.5467	5.3200e-003		0.0674	0.0674		0.0674	0.0674		1,064.0161	1,064.0161	0.0204	0.0195	1,070.3390
Mobile	4.5373	17.5288	42.5713	0.1459	11.4519	0.1111	11.5630	3.0646	0.1033	3.1679		14,881.3014	14,881.3014	0.7749		14,900.6742
Total	**23.8478**	**19.7123**	**79.1929**	**0.2306**	**11.4519**	**4.8662**	**16.3180**	**3.0646**	**4.8583**	**7.9229**	**571.3820**	**17,052.4210**	**17,623.8030**	**2.5081**	**0.0583**	**17,703.8756**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.3354	0.9689	5.4408	6.0800e-003		0.1016	0.1016		0.1016	0.1016	0.0000	1,171.6918	1,171.6918	0.0311	0.0213	1,178.8210
Energy	0.0726	0.6437	0.4367	3.9600e-003		0.0501	0.0501		0.0501	0.0501		791.6643	791.6643	0.0152	0.0145	796.3687
Mobile	4.4872	17.2811	41.2434	0.1403	10.9614	0.1073	11.0687	2.9333	0.0997	3.0330		14,319.6541	14,319.6541	0.7504		14,338.4127
Total	**7.8951**	**18.8937**	**47.1209**	**0.1504**	**10.9614**	**0.2590**	**11.2204**	**2.9333**	**0.2514**	**3.1847**	**0.0000**	**16,283.0101**	**16,283.0101**	**0.7966**	**0.0358**	**16,313.6025**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**66.89**	**4.15**	**40.50**	**34.79**	**4.28**	**94.68**	**31.24**	**4.28**	**94.83**	**59.80**	**100.00**	**4.51**	**7.61**	**68.24**	**38.55**	**7.85**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/1/2020	10/30/2020	5	22	
2	Grading	Grading	10/31/2020	12/31/2020	5	44	
3	Building Construction	Building Construction	3/4/2021	3/13/2023	5	528	
4	Paving	Paving	1/1/2021	3/3/2021	5	44	
5	Architectural Coating	Architectural Coating	3/4/2021	3/13/2023	5	528	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 66

Acres of Paving: 1.58

Residential Indoor: 256,983; Residential Outdoor: 85,661; Non-Residential Indoor: 19,500; Non-Residential Outdoor: 6,500; Striped Parking Area: 6,924 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Crawler Tractors	1	8.00	212	0.43
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Excavators	1	8.00	158	0.38
Demolition	Graders	1	8.00	187	0.41

Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	1	8.00	367	0.48
Grading	Surfacing Equipment	1	8.00	263	0.30
Grading	Tractors/Loaders/Backhoes	1	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	Trenchers	1	8.00	78	0.50
Building Construction	Welders	1	8.00	46	0.45
Paving	Graders	1	8.00	187	0.41
Paving	Other Construction Equipment	1	8.00	172	0.42
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Paving	Rubber Tired Dozers	0		247	0.40
Paving	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	7	23.00	0.00	448.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	56.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	116.00	43.00	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	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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					4.4094	0.0000	4.4094	0.6676	0.0000	0.6676			0.0000			0.0000
Off-Road	2.8545	29.7983	19.5362	0.0423		1.3183	1.3183		1.2479	1.2479		4,066.3487	4,066.3487	0.9952		4,091.2285
Total	**2.8545**	**29.7983**	**19.5362**	**0.0423**	**4.4094**	**1.3183**	**5.7276**	**0.6676**	**1.2479**	**1.9155**		**4,066.3487**	**4,066.3487**	**0.9952**		**4,091.2285**

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	0.1779	5.8554	1.2975	0.0161	0.3561	0.0187	0.3747	0.0976	0.0179	0.1155		1,742.7848	1,742.7848	0.1186		1,745.7504
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	0.1059	0.0753	1.0070	2.7200e-003	0.2571	2.1500e-003	0.2592	0.0682	1.9800e-003	0.0702		270.5060	270.5060	8.5300e-003		270.7192
Total	**0.2837**	**5.9307**	**2.3045**	**0.0188**	**0.6131**	**0.0208**	**0.6340**	**0.1658**	**0.0199**	**0.1856**		**2,013.2908**	**2,013.2908**	**0.1272**		**2,016.4696**

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					1.6337	0.0000	1.6337	0.2474	0.0000	0.2474			0.0000			0.0000
Off-Road	2.8545	29.7983	19.5362	0.0423		1.3183	1.3183		1.2479	1.2479	0.0000	4,066.3487	4,066.3487	0.9952		4,091.2285
Total	**2.8545**	**29.7983**	**19.5362**	**0.0423**	**1.6337**	**1.3183**	**2.9519**	**0.2474**	**1.2479**	**1.4953**	**0.0000**	**4,066.3487**	**4,066.3487**	**0.9952**		**4,091.2285**

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	0.1779	5.8554	1.2975	0.0161	0.2861	0.0187	0.3047	0.0804	0.0179	0.0983		1,742.7848	1,742.7848	0.1186		1,745.7504
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	0.1059	0.0753	1.0070	2.7200e-003	0.1990	2.1500e-003	0.2011	0.0539	1.9800e-003	0.0559		270.5060	270.5060	8.5300e-003		270.7192
Total	**0.2837**	**5.9307**	**2.3045**	**0.0188**	**0.4850**	**0.0208**	**0.5059**	**0.1343**	**0.0199**	**0.1542**		**2,013.2908**	**2,013.2908**	**0.1272**		**2,016.4696**

3.3 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					7.6140	0.0000	7.6140	3.4822	0.0000	3.4822			0.0000			0.0000
Off-Road	3.5793	40.8943	22.2839	0.0516		1.7050	1.7050		1.5686	1.5686		4,999.4279	4,999.4279	1.6169		5,039.8508
Total	**3.5793**	**40.8943**	**22.2839**	**0.0516**	**7.6140**	**1.7050**	**9.3190**	**3.4822**	**1.5686**	**5.0507**		**4,999.4279**	**4,999.4279**	**1.6169**		**5,039.8508**

3.3 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	0.0111	0.3660	0.0811	1.0100e-003	0.0223	1.1700e-003	0.0234	6.1000e-003	1.1200e-003	7.2200e-003		108.9241	108.9241	7.4100e-003		109.1094
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	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0940**	**0.4249**	**0.8692**	**3.1400e-003**	**0.2235**	**2.8500e-003**	**0.2263**	**0.0595**	**2.6700e-003**	**0.0621**		**320.6244**	**320.6244**	**0.0141**		**320.9766**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8210	0.0000	2.8210	1.2901	0.0000	1.2901			0.0000			0.0000
Off-Road	3.5793	40.8943	22.2839	0.0516		1.7050	1.7050		1.5686	1.5686	0.0000	4,999.4279	4,999.4279	1.6169		5,039.8508
Total	**3.5793**	**40.8943**	**22.2839**	**0.0516**	**2.8210**	**1.7050**	**4.5260**	**1.2901**	**1.5686**	**2.8587**	**0.0000**	**4,999.4279**	**4,999.4279**	**1.6169**		**5,039.8508**

3.3 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	0.0111	0.3660	0.0811	1.0100e-003	0.0179	1.1700e-003	0.0191	5.0300e-003	1.1200e-003	6.1400e-003		108.9241	108.9241	7.4100e-003		109.1094
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	0.0828	0.0589	0.7881	2.1300e-003	0.1557	1.6800e-003	0.1574	0.0422	1.5500e-003	0.0438		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0940**	**0.4249**	**0.8692**	**3.1400e-003**	**0.1736**	**2.8500e-003**	**0.1765**	**0.0472**	**2.6700e-003**	**0.0499**		**320.6244**	**320.6244**	**0.0141**		**320.9766**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2834	20.9442	19.1815	0.0303		1.2136	1.2136		1.1359	1.1359		2,880.2864	2,880.2864	0.7218		2,898.3301
Total	**2.2834**	**20.9442**	**19.1815**	**0.0303**		**1.2136**	**1.2136**		**1.1359**	**1.1359**		**2,880.2864**	**2,880.2864**	**0.7218**		**2,898.3301**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1307	4.1749	1.0914	0.0111	0.2753	8.5400e-003	0.2838	0.0793	8.1600e-003	0.0874		1,181.9867	1,181.9867	0.0696		1,183.7276
Worker	0.4972	0.3418	4.6722	0.0133	1.2966	0.0105	1.3071	0.3439	9.6500e-003	0.3535		1,320.9730	1,320.9730	0.0389		1,321.9461
Total	**0.6279**	**4.5166**	**5.7636**	**0.0243**	**1.5719**	**0.0190**	**1.5909**	**0.4231**	**0.0178**	**0.4410**		**2,502.9597**	**2,502.9597**	**0.1086**		**2,505.6737**

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	2.2834	20.9442	19.1815	0.0303		1.2136	1.2136		1.1359	1.1359	0.0000	2,880.2864	2,880.2864	0.7218		2,898.3301
Total	**2.2834**	**20.9442**	**19.1815**	**0.0303**		**1.2136**	**1.2136**		**1.1359**	**1.1359**	**0.0000**	**2,880.2864**	**2,880.2864**	**0.7218**		**2,898.3301**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1307	4.1749	1.0914	0.0111	0.2243	8.5400e-003	0.2328	0.0667	8.1600e-003	0.0749		1,181.9867	1,181.9867	0.0696		1,183.7276
Worker	0.4972	0.3418	4.6722	0.0133	1.0035	0.0105	1.0140	0.2719	9.6500e-003	0.2816		1,320.9730	1,320.9730	0.0389		1,321.9461
Total	**0.6279**	**4.5166**	**5.7636**	**0.0243**	**1.2278**	**0.0190**	**1.2468**	**0.3387**	**0.0178**	**0.3565**		**2,502.9597**	**2,502.9597**	**0.1086**		**2,505.6737**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0701	18.9953	18.9624	0.0303		1.0485	1.0485		0.9815	0.9815		2,881.2830	2,881.2830	0.7177		2,899.2252
Total	**2.0701**	**18.9953**	**18.9624**	**0.0303**		**1.0485**	**1.0485**		**0.9815**	**0.9815**		**2,881.2830**	**2,881.2830**	**0.7177**		**2,899.2252**

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1227	3.9702	1.0326	0.0110	0.2753	7.4600e-003	0.2828	0.0793	7.1400e-003	0.0864		1,171.6893	1,171.6893	0.0672		1,173.3703
Worker	0.4658	0.3087	4.3106	0.0128	1.2966	0.0102	1.3068	0.3439	9.3500e-003	0.3532		1,274.5063	1,274.5063	0.0352		1,275.3857
Total	**0.5884**	**4.2789**	**5.3432**	**0.0237**	**1.5719**	**0.0176**	**1.5895**	**0.4231**	**0.0165**	**0.4396**		**2,446.1956**	**2,446.1956**	**0.1024**		**2,448.7560**

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	2.0701	18.9953	18.9624	0.0303		1.0485	1.0485		0.9815	0.9815	0.0000	2,881.2830	2,881.2830	0.7177		2,899.2252
Total	**2.0701**	**18.9953**	**18.9624**	**0.0303**		**1.0485**	**1.0485**		**0.9815**	**0.9815**	**0.0000**	**2,881.2830**	**2,881.2830**	**0.7177**		**2,899.2252**

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1227	3.9702	1.0326	0.0110	0.2243	7.4600e-003	0.2318	0.0668	7.1400e-003	0.0739		1,171.6893	1,171.6893	0.0672		1,173.3703
Worker	0.4658	0.3087	4.3106	0.0128	1.0035	0.0102	1.0137	0.2719	9.3500e-003	0.2813		1,274.5063	1,274.5063	0.0352		1,275.3857
Total	**0.5884**	**4.2789**	**5.3432**	**0.0237**	**1.2278**	**0.0176**	**1.2455**	**0.3387**	**0.0165**	**0.3552**		**2,446.1956**	**2,446.1956**	**0.1024**		**2,448.7560**

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9194	17.6181	18.8361	0.0303		0.9240	0.9240		0.8648	0.8648		2,882.4098	2,882.4098	0.7137		2,900.2515
Total	**1.9194**	**17.6181**	**18.8361**	**0.0303**		**0.9240**	**0.9240**		**0.8648**	**0.8648**		**2,882.4098**	**2,882.4098**	**0.7137**		**2,900.2515**

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0910	3.0124	0.9326	0.0106	0.2753	3.4800e-003	0.2788	0.0793	3.3300e-003	0.0826		1,134.8019	1,134.8019	0.0596		1,136.2916
Worker	0.4374	0.2793	3.9697	0.0123	1.2966	9.8600e-003	1.3065	0.3439	9.0800e-003	0.3530		1,227.8391	1,227.8391	0.0317		1,228.6320
Total	**0.5284**	**3.2918**	**4.9023**	**0.0229**	**1.5719**	**0.0133**	**1.5853**	**0.4231**	**0.0124**	**0.4355**		**2,362.6411**	**2,362.6411**	**0.0913**		**2,364.9236**

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	1.9194	17.6181	18.8361	0.0303		0.9240	0.9240		0.8648	0.8648	0.0000	2,882.4098	2,882.4098	0.7137		2,900.2515
Total	**1.9194**	**17.6181**	**18.8361**	**0.0303**		**0.9240**	**0.9240**		**0.8648**	**0.8648**	**0.0000**	**2,882.4098**	**2,882.4098**	**0.7137**		**2,900.2515**

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0910	3.0124	0.9326	0.0106	0.2243	3.4800e-003	0.2278	0.0668	3.3300e-003	0.0701		1,134.8019	1,134.8019	0.0596		1,136.2916
Worker	0.4374	0.2793	3.9697	0.0123	1.0035	9.8600e-003	1.0134	0.2719	9.0800e-003	0.2810		1,227.8391	1,227.8391	0.0317		1,228.6320
Total	**0.5284**	**3.2918**	**4.9023**	**0.0229**	**1.2278**	**0.0133**	**1.2412**	**0.3387**	**0.0124**	**0.3511**		**2,362.6411**	**2,362.6411**	**0.0913**		**2,364.9236**

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8414	20.6004	15.1274	0.0309		0.8786	0.8786		0.8083	0.8083		2,995.8514	2,995.8514	0.9689		3,020.0744
Paving	0.0941					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.9355**	**20.6004**	**15.1274**	**0.0309**		**0.8786**	**0.8786**		**0.8083**	**0.8083**		**2,995.8514**	**2,995.8514**	**0.9689**		**3,020.0744**

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

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	1.8414	20.6004	15.1274	0.0309		0.8786	0.8786		0.8083	0.8083	0.0000	2,995.8514	2,995.8514	0.9689		3,020.0744
Paving	0.0941					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.9355**	**20.6004**	**15.1274**	**0.0309**		**0.8786**	**0.8786**		**0.8083**	**0.8083**	**0.0000**	**2,995.8514**	**2,995.8514**	**0.9689**		**3,020.0744**

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1298	1.3500e-003	0.1311	0.0352	1.2500e-003	0.0364		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1298**	**1.3500e-003**	**0.1311**	**0.0352**	**1.2500e-003**	**0.0364**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.7930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**2.0119**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0986	0.0678	0.9264	2.6300e-003	0.2571	2.0800e-003	0.2592	0.0682	1.9100e-003	0.0701		261.9171	261.9171	7.7200e-003		262.1100
Total	**0.0986**	**0.0678**	**0.9264**	**2.6300e-003**	**0.2571**	**2.0800e-003**	**0.2592**	**0.0682**	**1.9100e-003**	**0.0701**		**261.9171**	**261.9171**	**7.7200e-003**		**262.1100**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.7930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**2.0119**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0986	0.0678	0.9264	2.6300e-003	0.1990	2.0800e-003	0.2011	0.0539	1.9100e-003	0.0558		261.9171	261.9171	7.7200e-003		262.1100
Total	**0.0986**	**0.0678**	**0.9264**	**2.6300e-003**	**0.1990**	**2.0800e-003**	**0.2011**	**0.0539**	**1.9100e-003**	**0.0558**		**261.9171**	**261.9171**	**7.7200e-003**		**262.1100**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.7930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**1.9975**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.6 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	0.0924	0.0612	0.8547	2.5400e-003	0.2571	2.0100e-003	0.2591	0.0682	1.8500e-003	0.0700		252.7038	252.7038	6.9700e-003		252.8782
Total	**0.0924**	**0.0612**	**0.8547**	**2.5400e-003**	**0.2571**	**2.0100e-003**	**0.2591**	**0.0682**	**1.8500e-003**	**0.0700**		**252.7038**	**252.7038**	**6.9700e-003**		**252.8782**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.7930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**1.9975**	**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**

3.6 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	0.0924	0.0612	0.8547	2.5400e-003	0.1990	2.0100e-003	0.2010	0.0539	1.8500e-003	0.0558		252.7038	252.7038	6.9700e-003		252.8782
Total	**0.0924**	**0.0612**	**0.8547**	**2.5400e-003**	**0.1990**	**2.0100e-003**	**0.2010**	**0.0539**	**1.8500e-003**	**0.0558**		**252.7038**	**252.7038**	**6.9700e-003**		**252.8782**

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.7930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**1.9846**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0867	0.0554	0.7871	2.4400e-003	0.2571	1.9600e-003	0.2590	0.0682	1.8000e-003	0.0700		243.4509	243.4509	6.2900e-003		243.6081
Total	**0.0867**	**0.0554**	**0.7871**	**2.4400e-003**	**0.2571**	**1.9600e-003**	**0.2590**	**0.0682**	**1.8000e-003**	**0.0700**		**243.4509**	**243.4509**	**6.2900e-003**		**243.6081**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.7930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**1.9846**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0867	0.0554	0.7871	2.4400e-003	0.1990	1.9600e-003	0.2009	0.0539	1.8000e-003	0.0557		243.4509	243.4509	6.2900e-003		243.6081
Total	**0.0867**	**0.0554**	**0.7871**	**2.4400e-003**	**0.1990**	**1.9600e-003**	**0.2009**	**0.0539**	**1.8000e-003**	**0.0557**		**243.4509**	**243.4509**	**6.2900e-003**		**243.6081**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.4872	17.2811	41.2434	0.1403	10.9614	0.1073	11.0687	2.9333	0.0997	3.0330		14,319.6541	14,319.6541	0.7504		14,338.4127
Unmitigated	4.5373	17.5288	42.5713	0.1459	11.4519	0.1111	11.5630	3.0646	0.1033	3.1679		14,881.3014	14,881.3014	0.7749		14,900.6742

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	3,038.00	3,038.00	3038.00	3,197,153	3,060,223
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	102.00	102.00	102.00	220,610	211,162
Single Family Housing	575.84	575.84	575.84	1,967,733	1,883,457
Total	3,715.84	3,715.84	3,715.84	5,385,496	5,154,841

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Fast Food Restaurant with Drive Thru	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Fast Food Restaurant with Drive Thru	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Parking Lot	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Regional Shopping Center	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Single Family Housing	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0726	0.6437	0.4367	3.9600e-003		0.0501	0.0501		0.0501	0.0501		791.6643	791.6643	0.0152	0.0145	796.3687
NaturalGas Unmitigated	0.0975	0.8597	0.5467	5.3200e-003		0.0674	0.0674		0.0674	0.0674		1,064.0161	1,064.0161	0.0204	0.0195	1,070.3390

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	4425.53	0.0477	0.4339	0.3645	2.6000e-003		0.0330	0.0330		0.0330	0.0330		520.6511	520.6511	9.9800e-003	9.5500e-003	523.7451
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	26.9589	2.9000e-004	2.6400e-003	2.2200e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		3.1716	3.1716	6.0000e-005	6.0000e-005	3.1905
Single Family Housing	4591.64	0.0495	0.4232	0.1801	2.7000e-003		0.0342	0.0342		0.0342	0.0342		540.1934	540.1934	0.0104	9.9000e-003	543.4035
Total		**0.0975**	**0.8597**	**0.5467**	**5.3200e-003**		**0.0674**	**0.0674**		**0.0674**	**0.0674**		**1,064.0161**	**1,064.0161**	**0.0204**	**0.0195**	**1,070.3390**

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	3.98867	0.0430	0.3911	0.3285	2.3500e-003		0.0297	0.0297		0.0297	0.0297		469.2552	469.2552	8.9900e-003	8.6000e-003	472.0437
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	0.0169397	1.8000e-004	1.6600e-003	1.4000e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		1.9929	1.9929	4.0000e-005	4.0000e-005	2.0048
Single Family Housing	2.72354	0.0294	0.2510	0.1068	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.4162	320.4162	6.1400e-003	5.8700e-003	322.3203
Total		**0.0726**	**0.6437**	**0.4367**	**3.9600e-003**		**0.0501**	**0.0501**		**0.0501**	**0.0501**		**791.6643**	**791.6643**	**0.0152**	**0.0145**	**796.3687**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.3354	0.9689	5.4408	6.0800e-003		0.1016	0.1016		0.1016	0.1016	0.0000	1,171.6918	1,171.6918	0.0311	0.0213	1,178.8210
Unmitigated	19.2130	1.3239	36.0749	0.0794		4.6876	4.6876		4.6876	4.6876	571.3820	1,107.1035	1,678.4856	1.7128	0.0388	1,732.8623

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2594					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8160					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	15.9842	1.2657	31.0217	0.0791		4.6597	4.6597		4.6597	4.6597	571.3820	1,098.0000	1,669.3820	1.7040	0.0388	1,723.5382
Landscaping	0.1535	0.0582	5.0532	2.7000e-004		0.0279	0.0279		0.0279	0.0279		9.1035	9.1035	8.8200e-003		9.3241
Total	**19.2130**	**1.3239**	**36.0749**	**0.0794**		**4.6876**	**4.6876**		**4.6876**	**4.6876**	**571.3820**	**1,107.1035**	**1,678.4856**	**1.7128**	**0.0388**	**1,732.8623**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2594					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8160					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1066	0.9107	0.3875	5.8100e-003		0.0736	0.0736		0.0736	0.0736	0.0000	1,162.5882	1,162.5882	0.0223	0.0213	1,169.4969
Landscaping	0.1535	0.0582	5.0532	2.7000e-004		0.0279	0.0279		0.0279	0.0279		9.1035	9.1035	8.8200e-003		9.3241
Total	**3.3354**	**0.9689**	**5.4408**	**6.0800e-003**		**0.1016**	**0.1016**		**0.1016**	**0.1016**	**0.0000**	**1,171.6918**	**1,171.6918**	**0.0311**	**0.0213**	**1,178.8211**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Cypress Village Project

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	176.00	Space	1.58	115,407.00	0
City Park	2.21	Acre	2.21	96,267.60	0
Fast Food Restaurant with Drive Thru	7.00	1000sqft	0.16	7,000.00	0
Single Family Housing	61.00	Dwelling Unit	19.81	126,905.00	174
Regional Shopping Center	6.00	1000sqft	0.14	6,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	513	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2018 CO2 intensity from the 2018 SCE Sustainability Report (Pg. 10).

Land Use - Per site plan dated 11/21/19.

Construction Phase - Anticipated Construction Schedule for both the Commercial & Residential Project components.

Off-road Equipment -

Off-road Equipment - Ancitipated Equipment List

Off-road Equipment - Anticipated Construction Equipment.

Off-road Equipment - Anticipated Construction Equipment.

Off-road Equipment - Anticipated construction equipment.

Demolition -

Grading -

Architectural Coating - SCAQMD Rule 1113

Vehicle Trips - 3,716 net new daily trips

Woodstoves -

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Mobile Land Use Mitigation -

Area Mitigation - SCAQMD Rule 445 prohibits the installation of any open or enclosed permanently installed wood burning device.

Energy Mitigation - Per the 2019 Title 24 Code update which includes PV solar panels.

Water Mitigation - 2017 CalGreen Standards.

Waste Mitigation - AB 341

Trips and VMT -

Water And Wastewater -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26

Cypress Village Project - Los Angeles-South Coast County, Annual

tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	35.00	44.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	370.00	528.00
tblConstructionPhase	NumDays	20.00	528.00
tblConstructionPhase	PhaseEndDate	10/28/2020	10/30/2020
tblConstructionPhase	PhaseEndDate	12/16/2020	12/31/2020
tblConstructionPhase	PhaseEndDate	6/15/2022	3/3/2021
tblConstructionPhase	PhaseEndDate	5/18/2022	3/13/2023
tblConstructionPhase	PhaseEndDate	7/13/2022	3/13/2023
tblConstructionPhase	PhaseStartDate	10/29/2020	10/31/2020
tblConstructionPhase	PhaseStartDate	5/19/2022	1/1/2021
tblConstructionPhase	PhaseStartDate	12/17/2020	3/4/2021
tblConstructionPhase	PhaseStartDate	6/16/2022	3/4/2021
tblGrading	MaterialImported	0.00	450.00
tblLandUse	LandUseSquareFeet	70,400.00	115,407.00
tblLandUse	LandUseSquareFeet	109,800.00	126,905.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblProjectCharacteristics	CO2IntensityFactor	702.44	513
tblTripsAndVMT	WorkerTripNumber	18.00	23.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	722.03	434.00
tblVehicleTrips	ST_TR	49.97	17.00
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	542.72	434.00
tblVehicleTrips	SU_TR	25.24	17.00
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	496.12	434.00
tblVehicleTrips	WD_TR	42.70	17.00
tblVehicleTrips	WD_TR	9.52	9.44

2.0 Emissions Summary

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	0.1154	1.3047	0.7484	1.8700e-003	0.2275	0.0523	0.2798	0.0870	0.0485	0.1355	0.0000	166.4094	166.4094	0.0438	0.0000	167.5035
2021	0.5894	3.4034	3.3188	7.1600e-003	0.1983	0.1636	0.3618	0.0533	0.1534	0.2068	0.0000	638.4094	638.4094	0.1038	0.0000	641.0049
2022	0.6180	3.2313	3.4720	7.6400e-003	0.2332	0.1495	0.3827	0.0628	0.1406	0.2034	0.0000	681.9907	681.9907	0.0997	0.0000	684.4833
2023	0.1154	0.5699	0.6650	1.4800e-003	0.0458	0.0258	0.0715	0.0123	0.0242	0.0365	0.0000	131.7249	131.7249	0.0192	0.0000	132.2037
Maximum	**0.6180**	**3.4034**	**3.4720**	**7.6400e-003**	**0.2332**	**0.1636**	**0.3827**	**0.0870**	**0.1534**	**0.2068**	**0.0000**	**681.9907**	**681.9907**	**0.1038**	**0.0000**	**684.4833**

2.1 Overall Construction

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	0.1154	1.3047	0.7484	1.8700e-003	0.0890	0.0523	0.1413	0.0336	0.0485	0.0821	0.0000	166.4092	166.4092	0.0438	0.0000	167.5033
2021	0.5894	3.4034	3.3188	7.1600e-003	0.1548	0.1636	0.3184	0.0427	0.1534	0.1961	0.0000	638.4090	638.4090	0.1038	0.0000	641.0044
2022	0.6180	3.2313	3.4720	7.6400e-003	0.1821	0.1495	0.3316	0.0502	0.1406	0.1908	0.0000	681.9902	681.9902	0.0997	0.0000	684.4829
2023	0.1154	0.5699	0.6650	1.4800e-003	0.0357	0.0258	0.0615	9.8500e-003	0.0242	0.0341	0.0000	131.7248	131.7248	0.0192	0.0000	132.2036
Maximum	**0.6180**	**3.4034**	**3.4720**	**7.6400e-003**	**0.1821**	**0.1636**	**0.3316**	**0.0502**	**0.1534**	**0.1961**	**0.0000**	**681.9902**	**681.9902**	**0.1038**	**0.0000**	**684.4829**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**34.49**	**0.00**	**22.18**	**36.73**	**0.00**	**13.59**	**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	1.4142	1.4142
2	1-1-2021	3-31-2021	0.8235	0.8235
3	4-1-2021	6-30-2021	1.0425	1.0425
4	7-1-2021	9-30-2021	1.0540	1.0540
5	10-1-2021	12-31-2021	1.0575	1.0575
6	1-1-2022	3-31-2022	0.9512	0.9512
7	4-1-2022	6-30-2022	0.9585	0.9585
8	7-1-2022	9-30-2022	0.9690	0.9690

9	**10-1-2022**	**12-31-2022**	0.9723	0.9723
10	**1-1-2023**	**3-31-2023**	0.6911	0.6911
		Highest	1.4142	1.4142

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	0.7802	0.0231	1.0194	1.0200e-003		0.0617	0.0617		0.0617	0.0617	6.4794	13.4834	19.9628	0.0203	4.4000e-004	20.6019
Energy	0.0178	0.1569	0.0998	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	392.8151	392.8151	0.0156	5.7600e-003	394.9232
Mobile	0.7713	3.2689	7.6697	0.0256	2.0440	0.0203	2.0643	0.5479	0.0189	0.5667	0.0000	2,371.0500	2,371.0500	0.1284	0.0000	2,374.2611
Waste						0.0000	0.0000		0.0000	0.0000	32.1660	0.0000	32.1660	1.9010	0.0000	79.6898
Water						0.0000	0.0000		0.0000	0.0000	2.0760	34.1660	36.2419	0.2152	5.4300e-003	43.2402
Total	**1.5693**	**3.4489**	**8.7889**	**0.0276**	**2.0440**	**0.0943**	**2.1383**	**0.5479**	**0.0929**	**0.6408**	**40.7213**	**2,811.5144**	**2,852.2357**	**2.2805**	**0.0116**	**2,912.7162**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5818	0.0187	0.6365	1.1000e-004		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	14.2159	14.2159	1.2500e-003	2.4000e-004	14.3192
Energy	0.0132	0.1175	0.0797	7.2000e-004		9.1500e-003	9.1500e-003		9.1500e-003	9.1500e-003	0.0000	334.4193	334.4193	0.0140	4.7800e-003	336.1944
Mobile	0.7623	3.2200	7.4449	0.0246	1.9565	0.0196	1.9760	0.5244	0.0182	0.5426	0.0000	2,281.4918	2,281.4918	0.1245	0.0000	2,284.6035
Waste						0.0000	0.0000		0.0000	0.0000	16.0830	0.0000	16.0830	0.9505	0.0000	39.8449
Water						0.0000	0.0000		0.0000	0.0000	1.6608	30.2007	31.8615	0.1723	4.3800e-003	37.4741
Total	**1.3573**	**3.3561**	**8.1611**	**0.0255**	**1.9565**	**0.0331**	**1.9896**	**0.5244**	**0.0318**	**0.5562**	**17.7438**	**2,660.3277**	**2,678.0715**	**1.2625**	**9.4000e-003**	**2,712.4361**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**13.51**	**2.69**	**7.14**	**7.72**	**4.28**	**64.87**	**6.95**	**4.28**	**65.82**	**13.20**	**56.43**	**5.38**	**6.11**	**44.64**	**19.17**	**6.88**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/1/2020	10/30/2020	5	22	
2	Grading	Grading	10/31/2020	12/31/2020	5	44	
3	Building Construction	Building Construction	3/4/2021	3/13/2023	5	528	
4	Paving	Paving	1/1/2021	3/3/2021	5	44	
5	Architectural Coating	Architectural Coating	3/4/2021	3/13/2023	5	528	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 66

Acres of Paving: 1.58

Residential Indoor: 256,983; Residential Outdoor: 85,661; Non-Residential Indoor: 19,500; Non-Residential Outdoor: 6,500; Striped Parking Area: 6,924 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Crawler Tractors	1	8.00	212	0.43
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Excavators	1	8.00	158	0.38
Demolition	Graders	1	8.00	187	0.41
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40

Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	1	8.00	367	0.48
Grading	Surfacing Equipment	1	8.00	263	0.30
Grading	Tractors/Loaders/Backhoes	1	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	Trenchers	1	8.00	78	0.50
Building Construction	Welders	1	8.00	46	0.45
Paving	Graders	1	8.00	187	0.41
Paving	Other Construction Equipment	1	8.00	172	0.42
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Paving	Rubber Tired Dozers	0		247	0.40
Paving	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	7	23.00	0.00	448.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	56.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	116.00	43.00	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	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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					0.0485	0.0000	0.0485	7.3400e-003	0.0000	7.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0314	0.3278	0.2149	4.7000e-004		0.0145	0.0145		0.0137	0.0137	0.0000	40.5782	40.5782	9.9300e-003	0.0000	40.8265
Total	**0.0314**	**0.3278**	**0.2149**	**4.7000e-004**	**0.0485**	**0.0145**	**0.0630**	**7.3400e-003**	**0.0137**	**0.0211**	**0.0000**	**40.5782**	**40.5782**	**9.9300e-003**	**0.0000**	**40.8265**

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	1.9800e-003	0.0665	0.0147	1.8000e-004	3.8500e-003	2.1000e-004	4.0600e-003	1.0600e-003	2.0000e-004	1.2600e-003	0.0000	17.2655	17.2655	1.2000e-003	0.0000	17.2956
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	1.1700e-003	9.4000e-004	0.0104	3.0000e-005	2.7700e-003	2.0000e-005	2.8000e-003	7.4000e-004	2.0000e-005	7.6000e-004	0.0000	2.5840	2.5840	8.0000e-005	0.0000	2.5861
Total	**3.1500e-003**	**0.0675**	**0.0251**	**2.1000e-004**	**6.6200e-003**	**2.3000e-004**	**6.8600e-003**	**1.8000e-003**	**2.2000e-004**	**2.0200e-003**	**0.0000**	**19.8495**	**19.8495**	**1.2800e-003**	**0.0000**	**19.8816**

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					0.0180	0.0000	0.0180	2.7200e-003	0.0000	2.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0314	0.3278	0.2149	4.7000e-004		0.0145	0.0145		0.0137	0.0137	0.0000	40.5782	40.5782	9.9300e-003	0.0000	40.8265
Total	**0.0314**	**0.3278**	**0.2149**	**4.7000e-004**	**0.0180**	**0.0145**	**0.0325**	**2.7200e-003**	**0.0137**	**0.0165**	**0.0000**	**40.5782**	**40.5782**	**9.9300e-003**	**0.0000**	**40.8265**

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	1.9800e-003	0.0665	0.0147	1.8000e-004	3.1000e-003	2.1000e-004	3.3000e-003	8.7000e-004	2.0000e-004	1.0700e-003	0.0000	17.2655	17.2655	1.2000e-003	0.0000	17.2956
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	1.1700e-003	9.4000e-004	0.0104	3.0000e-005	2.1500e-003	2.0000e-005	2.1700e-003	5.8000e-004	2.0000e-005	6.0000e-004	0.0000	2.5840	2.5840	8.0000e-005	0.0000	2.5861
Total	**3.1500e-003**	**0.0675**	**0.0251**	**2.1000e-004**	**5.2500e-003**	**2.3000e-004**	**5.4700e-003**	**1.4500e-003**	**2.2000e-004**	**1.6700e-003**	**0.0000**	**19.8495**	**19.8495**	**1.2800e-003**	**0.0000**	**19.8816**

3.3 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					0.1675	0.0000	0.1675	0.0766	0.0000	0.0766	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0787	0.8997	0.4903	1.1400e-003		0.0375	0.0375		0.0345	0.0345	0.0000	99.7789	99.7789	0.0323	0.0000	100.5857
Total	**0.0787**	**0.8997**	**0.4903**	**1.1400e-003**	**0.1675**	**0.0375**	**0.2050**	**0.0766**	**0.0345**	**0.1111**	**0.0000**	**99.7789**	**99.7789**	**0.0323**	**0.0000**	**100.5857**

3.3 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	2.5000e-004	8.3200e-003	1.8300e-003	2.0000e-005	4.8000e-004	3.0000e-005	5.1000e-004	1.3000e-004	2.0000e-005	1.6000e-004	0.0000	2.1582	2.1582	1.5000e-004	0.0000	2.1620
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	1.8300e-003	1.4700e-003	0.0163	4.0000e-005	4.3400e-003	4.0000e-005	4.3800e-003	1.1500e-003	3.0000e-005	1.1900e-003	0.0000	4.0446	4.0446	1.3000e-004	0.0000	4.0477
Total	**2.0800e-003**	**9.7900e-003**	**0.0181**	**6.0000e-005**	**4.8200e-003**	**7.0000e-005**	**4.8900e-003**	**1.2800e-003**	**5.0000e-005**	**1.3500e-003**	**0.0000**	**6.2027**	**6.2027**	**2.8000e-004**	**0.0000**	**6.2097**

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					0.0621	0.0000	0.0621	0.0284	0.0000	0.0284	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0787	0.8997	0.4903	1.1400e-003		0.0375	0.0375		0.0345	0.0345	0.0000	99.7788	99.7788	0.0323	0.0000	100.5856
Total	**0.0787**	**0.8997**	**0.4903**	**1.1400e-003**	**0.0621**	**0.0375**	**0.0996**	**0.0284**	**0.0345**	**0.0629**	**0.0000**	**99.7788**	**99.7788**	**0.0323**	**0.0000**	**100.5856**

3.3 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	2.5000e-004	8.3200e-003	1.8300e-003	2.0000e-005	3.9000e-004	3.0000e-005	4.1000e-004	1.1000e-004	2.0000e-005	1.3000e-004	0.0000	2.1582	2.1582	1.5000e-004	0.0000	2.1620
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	1.8300e-003	1.4700e-003	0.0163	4.0000e-005	3.3600e-003	4.0000e-005	3.4000e-003	9.1000e-004	3.0000e-005	9.5000e-004	0.0000	4.0446	4.0446	1.3000e-004	0.0000	4.0477
Total	**2.0800e-003**	**9.7900e-003**	**0.0181**	**6.0000e-005**	**3.7500e-003**	**7.0000e-005**	**3.8100e-003**	**1.0200e-003**	**5.0000e-005**	**1.0800e-003**	**0.0000**	**6.2027**	**6.2027**	**2.8000e-004**	**0.0000**	**6.2097**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2478	2.2724	2.0812	3.2900e-003		0.1317	0.1317		0.1232	0.1232	0.0000	283.5053	283.5053	0.0710	0.0000	285.2813
Total	**0.2478**	**2.2724**	**2.0812**	**3.2900e-003**		**0.1317**	**0.1317**		**0.1232**	**0.1232**	**0.0000**	**283.5053**	**283.5053**	**0.0710**	**0.0000**	**285.2813**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0145	0.4604	0.1248	1.1900e-003	0.0294	9.4000e-004	0.0303	8.4800e-003	9.0000e-004	9.3800e-003	0.0000	115.0030	115.0030	7.0500e-003	0.0000	115.1793
Worker	0.0542	0.0422	0.4760	1.3800e-003	0.1379	1.1400e-003	0.1391	0.0366	1.0500e-003	0.0377	0.0000	124.4651	124.4651	3.6600e-003	0.0000	124.5567
Total	**0.0686**	**0.5026**	**0.6008**	**2.5700e-003**	**0.1673**	**2.0800e-003**	**0.1694**	**0.0451**	**1.9500e-003**	**0.0471**	**0.0000**	**239.4681**	**239.4681**	**0.0107**	**0.0000**	**239.7360**

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	0.2478	2.2724	2.0812	3.2900e-003		0.1317	0.1317		0.1232	0.1232	0.0000	283.5049	283.5049	0.0710	0.0000	285.2810
Total	**0.2478**	**2.2724**	**2.0812**	**3.2900e-003**		**0.1317**	**0.1317**		**0.1232**	**0.1232**	**0.0000**	**283.5049**	**283.5049**	**0.0710**	**0.0000**	**285.2810**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0145	0.4604	0.1248	1.1900e-003	0.0240	9.4000e-004	0.0249	7.1500e-003	9.0000e-004	8.0500e-003	0.0000	115.0030	115.0030	7.0500e-003	0.0000	115.1793
Worker	0.0542	0.0422	0.4760	1.3800e-003	0.1068	1.1400e-003	0.1080	0.0290	1.0500e-003	0.0301	0.0000	124.4651	124.4651	3.6600e-003	0.0000	124.5567
Total	**0.0686**	**0.5026**	**0.6008**	**2.5700e-003**	**0.1308**	**2.0800e-003**	**0.1329**	**0.0362**	**1.9500e-003**	**0.0381**	**0.0000**	**239.4681**	**239.4681**	**0.0107**	**0.0000**	**239.7360**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2691	2.4694	2.4651	3.9400e-003		0.1363	0.1363		0.1276	0.1276	0.0000	339.8013	339.8013	0.0846	0.0000	341.9173
Total	**0.2691**	**2.4694**	**2.4651**	**3.9400e-003**		**0.1363**	**0.1363**		**0.1276**	**0.1276**	**0.0000**	**339.8013**	**339.8013**	**0.0846**	**0.0000**	**341.9173**

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0163	0.5241	0.1415	1.4100e-003	0.0352	9.8000e-004	0.0362	0.0102	9.4000e-004	0.0111	0.0000	136.5813	136.5813	8.1600e-003	0.0000	136.7853
Worker	0.0609	0.0456	0.5254	1.5900e-003	0.1653	1.3200e-003	0.1666	0.0439	1.2200e-003	0.0451	0.0000	143.8865	143.8865	3.9600e-003	0.0000	143.9856
Total	**0.0771**	**0.5698**	**0.6670**	**3.0000e-003**	**0.2005**	**2.3000e-003**	**0.2028**	**0.0541**	**2.1600e-003**	**0.0562**	**0.0000**	**280.4679**	**280.4679**	**0.0121**	**0.0000**	**280.7709**

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	0.2691	2.4694	2.4651	3.9400e-003		0.1363	0.1363		0.1276	0.1276	0.0000	339.8009	339.8009	0.0846	0.0000	341.9169
Total	**0.2691**	**2.4694**	**2.4651**	**3.9400e-003**		**0.1363**	**0.1363**		**0.1276**	**0.1276**	**0.0000**	**339.8009**	**339.8009**	**0.0846**	**0.0000**	**341.9169**

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0163	0.5241	0.1415	1.4100e-003	0.0287	9.8000e-004	0.0297	8.5700e-003	9.4000e-004	9.5100e-003	0.0000	136.5813	136.5813	8.1600e-003	0.0000	136.7853
Worker	0.0609	0.0456	0.5254	1.5900e-003	0.1280	1.3200e-003	0.1293	0.0348	1.2200e-003	0.0360	0.0000	143.8865	143.8865	3.9600e-003	0.0000	143.9856
Total	**0.0771**	**0.5698**	**0.6670**	**3.0000e-003**	**0.1567**	**2.3000e-003**	**0.1591**	**0.0433**	**2.1600e-003**	**0.0455**	**0.0000**	**280.4679**	**280.4679**	**0.0121**	**0.0000**	**280.7709**

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0490	0.4493	0.4803	7.7000e-004		0.0236	0.0236		0.0221	0.0221	0.0000	66.6794	66.6794	0.0165	0.0000	67.0921
Total	**0.0490**	**0.4493**	**0.4803**	**7.7000e-004**		**0.0236**	**0.0236**		**0.0221**	**0.0221**	**0.0000**	**66.6794**	**66.6794**	**0.0165**	**0.0000**	**67.0921**

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3700e-003	0.0777	0.0249	2.7000e-004	6.9100e-003	9.0000e-005	7.0000e-003	1.9900e-003	9.0000e-005	2.0800e-003	0.0000	25.9522	25.9522	1.4100e-003	0.0000	25.9876
Worker	0.0112	8.1000e-003	0.0948	3.0000e-004	0.0324	2.5000e-004	0.0327	8.6100e-003	2.3000e-004	8.8400e-003	0.0000	27.1911	27.1911	7.0000e-004	0.0000	27.2086
Total	**0.0136**	**0.0858**	**0.1197**	**5.7000e-004**	**0.0393**	**3.4000e-004**	**0.0397**	**0.0106**	**3.2000e-004**	**0.0109**	**0.0000**	**53.1433**	**53.1433**	**2.1100e-003**	**0.0000**	**53.1962**

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	0.0490	0.4493	0.4803	7.7000e-004		0.0236	0.0236		0.0221	0.0221	0.0000	66.6793	66.6793	0.0165	0.0000	67.0921
Total	**0.0490**	**0.4493**	**0.4803**	**7.7000e-004**		**0.0236**	**0.0236**		**0.0221**	**0.0221**	**0.0000**	**66.6793**	**66.6793**	**0.0165**	**0.0000**	**67.0921**

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3700e-003	0.0777	0.0249	2.7000e-004	5.6400e-003	9.0000e-005	5.7300e-003	1.6800e-003	9.0000e-005	1.7700e-003	0.0000	25.9522	25.9522	1.4100e-003	0.0000	25.9876
Worker	0.0112	8.1000e-003	0.0948	3.0000e-004	0.0251	2.5000e-004	0.0254	6.8200e-003	2.3000e-004	7.0500e-003	0.0000	27.1911	27.1911	7.0000e-004	0.0000	27.2086
Total	**0.0136**	**0.0858**	**0.1197**	**5.7000e-004**	**0.0308**	**3.4000e-004**	**0.0311**	**8.5000e-003**	**3.2000e-004**	**8.8200e-003**	**0.0000**	**53.1433**	**53.1433**	**2.1100e-003**	**0.0000**	**53.1962**

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0405	0.4532	0.3328	6.8000e-004		0.0193	0.0193		0.0178	0.0178	0.0000	59.7914	59.7914	0.0193	0.0000	60.2748
Paving	2.0700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0426**	**0.4532**	**0.3328**	**6.8000e-004**		**0.0193**	**0.0193**		**0.0178**	**0.0178**	**0.0000**	**59.7914**	**59.7914**	**0.0193**	**0.0000**	**60.2748**

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4200e-003	1.1100e-003	0.0125	4.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.2634	3.2634	1.0000e-004	0.0000	3.2658
Total	**1.4200e-003**	**1.1100e-003**	**0.0125**	**4.0000e-005**	**3.6200e-003**	**3.0000e-005**	**3.6500e-003**	**9.6000e-004**	**3.0000e-005**	**9.9000e-004**	**0.0000**	**3.2634**	**3.2634**	**1.0000e-004**	**0.0000**	**3.2658**

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	0.0405	0.4532	0.3328	6.8000e-004		0.0193	0.0193		0.0178	0.0178	0.0000	59.7913	59.7913	0.0193	0.0000	60.2748
Paving	2.0700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0426**	**0.4532**	**0.3328**	**6.8000e-004**		**0.0193**	**0.0193**		**0.0178**	**0.0178**	**0.0000**	**59.7913**	**59.7913**	**0.0193**	**0.0000**	**60.2748**

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4200e-003	1.1100e-003	0.0125	4.0000e-005	2.8000e-003	3.0000e-005	2.8300e-003	7.6000e-004	3.0000e-005	7.9000e-004	0.0000	3.2634	3.2634	1.0000e-004	0.0000	3.2658
Total	**1.4200e-003**	**1.1100e-003**	**0.0125**	**4.0000e-005**	**2.8000e-003**	**3.0000e-005**	**2.8300e-003**	**7.6000e-004**	**3.0000e-005**	**7.9000e-004**	**0.0000**	**3.2634**	**3.2634**	**1.0000e-004**	**0.0000**	**3.2658**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0238	0.1657	0.1972	3.2000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	27.7028	27.7028	1.9000e-003	0.0000	27.7503
Total	**0.2183**	**0.1657**	**0.1972**	**3.2000e-004**		**0.0102**	**0.0102**		**0.0102**	**0.0102**	**0.0000**	**27.7028**	**27.7028**	**1.9000e-003**	**0.0000**	**27.7503**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0107	8.3600e-003	0.0944	2.7000e-004	0.0274	2.3000e-004	0.0276	7.2600e-003	2.1000e-004	7.4700e-003	0.0000	24.6784	24.6784	7.3000e-004	0.0000	24.6966
Total	**0.0107**	**8.3600e-003**	**0.0944**	**2.7000e-004**	**0.0274**	**2.3000e-004**	**0.0276**	**7.2600e-003**	**2.1000e-004**	**7.4700e-003**	**0.0000**	**24.6784**	**24.6784**	**7.3000e-004**	**0.0000**	**24.6966**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0238	0.1657	0.1972	3.2000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	27.7028	27.7028	1.9000e-003	0.0000	27.7503
Total	**0.2183**	**0.1657**	**0.1972**	**3.2000e-004**		**0.0102**	**0.0102**		**0.0102**	**0.0102**	**0.0000**	**27.7028**	**27.7028**	**1.9000e-003**	**0.0000**	**27.7503**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0107	8.3600e-003	0.0944	2.7000e-004	0.0212	2.3000e-004	0.0214	5.7500e-003	2.1000e-004	5.9600e-003	0.0000	24.6784	24.6784	7.3000e-004	0.0000	24.6966
Total	**0.0107**	**8.3600e-003**	**0.0944**	**2.7000e-004**	**0.0212**	**2.3000e-004**	**0.0214**	**5.7500e-003**	**2.1000e-004**	**5.9600e-003**	**0.0000**	**24.6784**	**24.6784**	**7.3000e-004**	**0.0000**	**24.6966**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.1831	0.2358	3.9000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	33.1923	33.1923	2.1600e-003	0.0000	33.2463
Total	**0.2597**	**0.1831**	**0.2358**	**3.9000e-004**		**0.0106**	**0.0106**		**0.0106**	**0.0106**	**0.0000**	**33.1923**	**33.1923**	**2.1600e-003**	**0.0000**	**33.2463**

3.6 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	0.0121	9.0500e-003	0.1042	3.2000e-004	0.0328	2.6000e-004	0.0330	8.7000e-003	2.4000e-004	8.9400e-003	0.0000	28.5292	28.5292	7.9000e-004	0.0000	28.5489
Total	**0.0121**	**9.0500e-003**	**0.1042**	**3.2000e-004**	**0.0328**	**2.6000e-004**	**0.0330**	**8.7000e-003**	**2.4000e-004**	**8.9400e-003**	**0.0000**	**28.5292**	**28.5292**	**7.9000e-004**	**0.0000**	**28.5489**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.1831	0.2358	3.9000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	33.1923	33.1923	2.1600e-003	0.0000	33.2463
Total	**0.2597**	**0.1831**	**0.2358**	**3.9000e-004**		**0.0106**	**0.0106**		**0.0106**	**0.0106**	**0.0000**	**33.1923**	**33.1923**	**2.1600e-003**	**0.0000**	**33.2463**

3.6 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	0.0121	9.0500e-003	0.1042	3.2000e-004	0.0254	2.6000e-004	0.0256	6.8900e-003	2.4000e-004	7.1300e-003	0.0000	28.5292	28.5292	7.9000e-004	0.0000	28.5489
Total	**0.0121**	**9.0500e-003**	**0.1042**	**3.2000e-004**	**0.0254**	**2.6000e-004**	**0.0256**	**6.8900e-003**	**2.4000e-004**	**7.1300e-003**	**0.0000**	**28.5292**	**28.5292**	**7.9000e-004**	**0.0000**	**28.5489**

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0457					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8900e-003	0.0332	0.0462	8.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	6.5108	6.5108	3.9000e-004	0.0000	6.5205
Total	**0.0506**	**0.0332**	**0.0462**	**8.0000e-005**		**1.8100e-003**	**1.8100e-003**		**1.8100e-003**	**1.8100e-003**	**0.0000**	**6.5108**	**6.5108**	**3.9000e-004**	**0.0000**	**6.5205**

3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2300e-003	1.6100e-003	0.0188	6.0000e-005	6.4300e-003	5.0000e-005	6.4800e-003	1.7100e-003	5.0000e-005	1.7500e-003	0.0000	5.3913	5.3913	1.4000e-004	0.0000	5.3948
Total	**2.2300e-003**	**1.6100e-003**	**0.0188**	**6.0000e-005**	**6.4300e-003**	**5.0000e-005**	**6.4800e-003**	**1.7100e-003**	**5.0000e-005**	**1.7500e-003**	**0.0000**	**5.3913**	**5.3913**	**1.4000e-004**	**0.0000**	**5.3948**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0457					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8900e-003	0.0332	0.0462	8.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	6.5108	6.5108	3.9000e-004	0.0000	6.5205
Total	**0.0506**	**0.0332**	**0.0462**	**8.0000e-005**		**1.8100e-003**	**1.8100e-003**		**1.8100e-003**	**1.8100e-003**	**0.0000**	**6.5108**	**6.5108**	**3.9000e-004**	**0.0000**	**6.5205**

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2300e-003	1.6100e-003	0.0188	6.0000e-005	4.9800e-003	5.0000e-005	5.0300e-003	1.3500e-003	5.0000e-005	1.4000e-003	0.0000	5.3913	5.3913	1.4000e-004	0.0000	5.3948
Total	**2.2300e-003**	**1.6100e-003**	**0.0188**	**6.0000e-005**	**4.9800e-003**	**5.0000e-005**	**5.0300e-003**	**1.3500e-003**	**5.0000e-005**	**1.4000e-003**	**0.0000**	**5.3913**	**5.3913**	**1.4000e-004**	**0.0000**	**5.3948**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7623	3.2200	7.4449	0.0246	1.9565	0.0196	1.9760	0.5244	0.0182	0.5426	0.0000	2,281.4918	2,281.4918	0.1245	0.0000	2,284.6035
Unmitigated	0.7713	3.2689	7.6697	0.0256	2.0440	0.0203	2.0643	0.5479	0.0189	0.5667	0.0000	2,371.0500	2,371.0500	0.1284	0.0000	2,374.2611

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	3,038.00	3,038.00	3038.00	3,197,153	3,060,223
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	102.00	102.00	102.00	220,610	211,162
Single Family Housing	575.84	575.84	575.84	1,967,733	1,883,457
Total	3,715.84	3,715.84	3,715.84	5,385,496	5,154,841

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Fast Food Restaurant with Drive Thru	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Fast Food Restaurant with Drive Thru	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Parking Lot	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Regional Shopping Center	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Single Family Housing	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Cypress Village Project - Los Angeles-South Coast County, 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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	203.3504	203.3504	0.0115	2.3800e-003	204.3466
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	216.6553	216.6553	0.0123	2.5300e-003	217.7166
NaturalGas Mitigated	0.0132	0.1175	0.0797	7.2000e-004		9.1500e-003	9.1500e-003		9.1500e-003	9.1500e-003	0.0000	131.0689	131.0689	2.5100e-003	2.4000e-003	131.8478
NaturalGas Unmitigated	0.0178	0.1569	0.0998	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	176.1598	176.1598	3.3800e-003	3.2300e-003	177.2066

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	1.61532e+006	8.7100e-003	0.0792	0.0665	4.8000e-004		6.0200e-003	6.0200e-003		6.0200e-003	6.0200e-003	0.0000	86.1996	86.1996	1.6500e-003	1.5800e-003	86.7119
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	9840	5.0000e-005	4.8000e-004	4.1000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5251	0.5251	1.0000e-005	1.0000e-005	0.5282
Single Family Housing	1.67595e+006	9.0400e-003	0.0772	0.0329	4.9000e-004		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	89.4351	89.4351	1.7100e-003	1.6400e-003	89.9665
Total		**0.0178**	**0.1569**	**0.0998**	**9.7000e-004**		**0.0123**	**0.0123**		**0.0123**	**0.0123**	**0.0000**	**176.1598**	**176.1598**	**3.3700e-003**	**3.2300e-003**	**177.2066**

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	1.45586e+006	7.8500e-003	0.0714	0.0600	4.3000e-004		5.4200e-003	5.4200e-003		5.4200e-003	5.4200e-003	0.0000	77.6905	77.6905	1.4900e-003	1.4200e-003	78.1521
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	6183	3.0000e-005	3.0000e-004	2.5000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3300	0.3300	1.0000e-005	1.0000e-005	0.3319
Single Family Housing	994091	5.3600e-003	0.0458	0.0195	2.9000e-004		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	53.0485	53.0485	1.0200e-003	9.7000e-004	53.3637
Total		**0.0132**	**0.1175**	**0.0797**	**7.2000e-004**		**9.1400e-003**	**9.1400e-003**		**9.1400e-003**	**9.1400e-003**	**0.0000**	**131.0689**	**131.0689**	**2.5200e-003**	**2.4000e-003**	**131.8478**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	308980	71.8975	4.0600e-003	8.4000e-004	72.2497
Parking Lot	40392.4	9.3990	5.3000e-004	1.1000e-004	9.4451
Regional Shopping Center	81000	18.8481	1.0700e-003	2.2000e-004	18.9405
Single Family Housing	500706	116.5107	6.5900e-003	1.3600e-003	117.0814
Total		**216.6553**	**0.0123**	**2.5300e-003**	**217.7166**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	278892	64.8962	3.6700e-003	7.6000e-004	65.2141
Parking Lot	40392.4	9.3990	5.3000e-004	1.1000e-004	9.4451
Regional Shopping Center	68248.2	15.8809	9.0000e-004	1.9000e-004	15.9587
Single Family Housing	486368	113.1744	6.4000e-003	1.3200e-003	113.7288
Total		**203.3504**	**0.0115**	**2.3800e-003**	**204.3466**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5818	0.0187	0.6365	1.1000e-004		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	14.2159	14.2159	1.2500e-003	2.4000e-004	14.3192
Unmitigated	0.7802	0.0231	1.0194	1.0200e-003		0.0617	0.0617		0.0617	0.0617	6.4794	13.4834	19.9628	0.0203	4.4000e-004	20.6019

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	0.0473					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1998	0.0158	0.3878	9.9000e-004		0.0583	0.0583		0.0583	0.0583	6.4794	12.4511	18.9305	0.0193	4.4000e-004	19.5446
Landscaping	0.0192	7.2800e-003	0.6317	3.0000e-005		3.4900e-003	3.4900e-003		3.4900e-003	3.4900e-003	0.0000	1.0323	1.0323	1.0000e-003	0.0000	1.0573
Total	**0.7802**	**0.0231**	**1.0194**	**1.0200e-003**		**0.0617**	**0.0617**		**0.0617**	**0.0617**	**6.4794**	**13.4834**	**19.9628**	**0.0203**	**4.4000e-004**	**20.6019**

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	0.0473					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.3300e-003	0.0114	4.8400e-003	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1835	13.1835	2.5000e-004	2.4000e-004	13.2619
Landscaping	0.0192	7.2800e-003	0.6317	3.0000e-005		3.4900e-003	3.4900e-003		3.4900e-003	3.4900e-003	0.0000	1.0323	1.0323	1.0000e-003	0.0000	1.0573
Total	**0.5818**	**0.0187**	**0.6365**	**1.0000e-004**		**4.4100e-003**	**4.4100e-003**		**4.4100e-003**	**4.4100e-003**	**0.0000**	**14.2159**	**14.2159**	**1.2500e-003**	**2.4000e-004**	**14.3192**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	31.8615	0.1723	4.3800e-003	37.4741
Unmitigated	36.2419	0.2152	5.4300e-003	43.2402

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 2.63317	6.8073	3.8000e-004	8.0000e-005	6.8407
Fast Food Restaurant with Drive Thru	2.12474 / 0.135621	7.4624	0.0696	1.7100e-003	9.7137
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.444435 / 0.272396	2.1918	0.0146	3.7000e-004	2.6658
Single Family Housing	3.9744 / 2.5056	19.7804	0.1306	3.2700e-003	24.0200
Total		**36.2419**	**0.2152**	**5.4300e-003**	**43.2402**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 2.63317	6.8073	3.8000e-004	8.0000e-005	6.8407
Fast Food Restaurant with Drive Thru	1.69979 / 0.135621	6.0401	0.0557	1.3700e-003	7.8414
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.355548 / 0.272396	1.8943	0.0117	2.9000e-004	2.2742
Single Family Housing	3.17952 / 2.5056	17.1198	0.1045	2.6300e-003	20.5179
Total		**31.8615**	**0.1723**	**4.3700e-003**	**37.4741**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	16.0830	0.9505	0.0000	39.8449
Unmitigated	32.1660	1.9010	0.0000	79.6898

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.19	0.0386	2.2800e-003	0.0000	0.0956
Fast Food Restaurant with Drive Thru	80.63	16.3672	0.9673	0.0000	40.5490
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	6.3	1.2788	0.0756	0.0000	3.1683
Single Family Housing	71.34	14.4814	0.8558	0.0000	35.8770
Total		**32.1660**	**1.9010**	**0.0000**	**79.6898**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.095	0.0193	1.1400e-003	0.0000	0.0478
Fast Food Restaurant with Drive Thru	40.315	8.1836	0.4836	0.0000	20.2745
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3.15	0.6394	0.0378	0.0000	1.5841
Single Family Housing	35.67	7.2407	0.4279	0.0000	17.9385
Total		**16.0830**	**0.9505**	**0.0000**	**39.8449**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation