

Appendix B

Air Quality/Greenhouse Gas Modeling Results

N2O Operational GHG Emission Mobile Calculations

Project Code & Title: 20-09861 West Covina 1616 West Cameron Ave - Project

Vehicle Population Breakdown*	
12013779	Gasoline vehicles
570736	Diesel vehicles
95.5%	Gasoline vehicle %
4.5%	Diesel vehicle %

VMT per Vehicle Type	
1,432,743	Project VMT (CalEEMod output)
1367765	Gasoline vehicle VMT
64978	Diesel vehicle VMT

Gasoline Vehicles	
95.5%	Gasoline vehicle %
0.5368	Tons per year mobile NOX emissions (annual output in CalEEMod)
0.51	Gasoline vehicle tons per year NOX emissions
0.0384	Tons per year N2O emissions for gasoline vehicles**
0.0348	Metric tons per year N2O emissions for gasoline vehicles

Diesel Vehicles	
1.60	grams N2O per gallon of fuel for diesel vehicles**
20.26	Diesel average miles per gallon*
0.07898	grams per mile N2O for diesel vehicles
5131.9	grams per year N2O for diesel vehicles
0.0051319	Metric tons per year N2O emissions for diesel vehicles

CO2e Emissions from N2O	
0.0400	Metric tons per year from gasoline + diesel vehicles
298	GWP of N2O***
11.9	CO2e emissions per year from N2O emissions from gasoline + diesel vehicles

Sources
<p>*Vehicle population source: EMFAC2017 (v1.0.3) Emissions Inventory Region Type: Air District Region: South Coast AQMD Calendar Year: 2024 Season: Annual Vehicle Classification: EMFAC2011 Categories</p>
<p>**Methodology source: EMFAC2017 Volume III - Technical Documentation https://www.arb.ca.gov/msei/emfac2011-faq.htm</p>
<p>***GWP source: Intergovernmental Panel on Climate Change (IPCC). 2007. AR4 Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.</p>

N2O Operational GHG Emission Mobile Calculations

Project Code & Title: 20-09861 West Covina 1616 West Cameron Ave - Existing

Vehicle Population Breakdown*	
11318094	Gasoline vehicles
485802	Diesel vehicles
95.9%	Gasoline vehicle %
4.1%	Diesel vehicle %

VMT per Vehicle Type	
843,365	Project VMT (CalEEMod output)
808,655	Gasoline vehicle VMT
34710	Diesel vehicle VMT

Gasoline Vehicles	
95.9%	Gasoline vehicle %
0.3255	Tons per year mobile NOX emissions (annual output in CalEEMod)
0.31	Gasoline vehicle tons per year NOX emissions
0.0272	Tons per year N2O emissions for gasoline vehicles**
0.0247	Metric tons per year N2O emissions for gasoline vehicles

Diesel Vehicles	
1.60	grams N2O per gallon of fuel for diesel vehicles**
17.65	Diesel average miles per gallon*
0.09068	grams per mile N2O for diesel vehicles
3147.3	grams per year N2O for diesel vehicles
0.0031473	Metric tons per year N2O emissions for diesel vehicles

CO2e Emissions from N2O	
0.0278	Metric tons per year from gasoline + diesel vehicles
298	GWP of N2O***
8.3	CO2e emissions per year from N2O emissions from gasoline + diesel vehicles

Sources
<p>*Vehicle population source: Source: EMFAC2017 (v1.0.3) Emissions Inventory Region Type: Air District Region: South Coast AQMD Calendar Year: 2020 Season: Annual Vehicle Classification: EMFAC2011 Categories</p> <p>**Methodology source: EMFAC2017 Volume III - Technical Documentation https://www.arb.ca.gov/msei/emfac2011-faq.htm</p> <p>***GWP source: Intergovernmental Panel on Climate Change (IPCC). 2007. AR4 Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.</p>

Post-2020, Pre-2030 Projects

Southern California Edison

	2012	2024
Percent procurement	20.6	44
CO2 (lbs/MWh)	702	495.11
CH4 (lbs/MWh)	0.029	0.020
N2O (lbs/MWh)	0.00617	0.004

Sources for Historical Renewables Procurement

SCE 2012 20.6% Southern California Edison. 2012. 2012 Corporate Responsibility & Sustainability
https://www1.sce.com/wps/wcm/connect/68145014-2eba-40c2-8587-6482ce056977/CRR_08202013.pdf?MOD=AJPERES&ContentCache=NON

1616 West Cameron Avenue Residential Project AQ 2024 - South Coast AQMD Air District, Winter

1616 West Cameron Avenue Residential Project AQ 2024
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	15.00	Space	0.00	6,000.00	0
Condo/Townhouse High Rise	84.00	Dwelling Unit	3.25	128,250.00	240

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9	Operational Year	2024		
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	495.11	CH4 Intensity (lb/MW hr)	0.02	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Residential Project located in West Covina, LA County --> SCAQMD, Adjusted intensity factors for 2024

Land Use - 84 Townhome Units with garages and driveways ~128,250 SF from plans (residential parking accounted for in the model). 15 parking lot spaces (4.4 surface and 1 ADA space). Approximate population is 240.

Construction Phase - Project Applicant Construction Schedule

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Default Construction Equipment

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - 35,105 sf of general office buildings per traffic TIA

Grading - Balanced Site

Vehicle Trips - Project Specific Trip Generation Rates based on TIA. Daily: 5.44,

Woodstoves - No woodstoves or hearths per project applicant

Energy Use - 2019 Title 24 Standards, single-family residential would be reduced by 7% (townhomes are single-family homes). Reduce 252.63 by 7% =

234.9456
 Water And Wastewater - Reduction of indoor water use by 20% per 2016 Title 24 Standards (5,472,938.15*0.80) = 4,378,350.52. Assumed 100% aerobic

Construction Off-road Equipment Mitigation - Fugitive Dust Control BMPs per SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - No hearths

Energy Mitigation - 2019 Building Energy Efficiency Standards require the installation of solar PV, 100% electricity generated by solar. energy efficient

Water Mitigation - Water-efficient irrigation systems per applicant

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	380.00
tblConstructionPhase	NumDays	230.00	380.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	8.00	30.00
tblConstructionPhase	NumDays	18.00	10.00
tblConstructionPhase	NumDays	5.00	137.00
tblEnergyUse	T24E	252.63	234.95
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	71.40	0.00
tblFireplaces	NumberNoFireplace	8.40	0.00
tblFireplaces	NumberWood	4.20	0.00
tblLandUse	LandUseSquareFeet	84,000.00	128,250.00
tblLandUse	LotAcreage	0.13	0.00
tblLandUse	LotAcreage	1.31	3.25
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	702.44	495.11

tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	WD_TR	4.18	5.44
tblWater	IndoorWaterUseRate	5,472,938.15	4,378,350.52
tblWoodstoves	NumberCatalytic	4.20	0.00
tblWoodstoves	NumberNoncatalytic	4.20	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

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					
2021	7.2598	73.8985	44.2546	0.0857	24.9875	3.6043	28.1946	13.3960	3.3300	16.3465	0.0000	8,367.5143	8,367.5143	2.2980	0.0000	8,424.9648
2022	5.2619	54.0280	36.0017	0.0710	24.9875	2.5561	27.5435	13.3960	2.3516	15.7476	0.0000	6,887.6253	6,887.6253	2.1293	0.0000	6,940.8577
2023	4.2120	16.5540	20.4556	0.0396	0.9135	0.7773	1.6908	0.2437	0.7355	0.9792	0.0000	3,821.6049	3,821.6049	0.6566	0.0000	3,838.0197
Maximum	7.2598	73.8985	44.2546	0.0857	24.9875	3.6043	28.1946	13.3960	3.3300	16.3465	0.0000	8,367.5143	8,367.5143	2.2980	0.0000	8,424.9648

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	7.2598	73.8985	44.2546	0.0857	11.4472	3.6043	14.6543	6.0820	3.3300	9.0325	0.0000	8,367.5143	8,367.5143	2.2980	0.0000	8,424.9648

2022	5.2619	54.0280	36.0017	0.0710	11.4472	2.5561	14.0033	6.0820	2.3516	8.4336	0.0000	6,887.6253	6,887.6253	2.1293	0.0000	6,940.8577
2023	4.2120	16.5540	20.4556	0.0396	0.9135	0.7773	1.6908	0.2437	0.7355	0.9792	0.0000	3,821.6049	3,821.6049	0.6566	0.0000	3,838.0196
Maximum	7.2598	73.8985	44.2546	0.0857	11.4472	3.6043	14.6543	6.0820	3.3300	9.0325	0.0000	8,367.5143	8,367.5143	2.2980	0.0000	8,424.9648

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	53.22	0.00	47.15	54.11	0.00	44.23	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	2.9702	0.0798	6.9287	3.7000e-004		0.0384	0.0384		0.0384	0.0384	0.0000	12.4817	12.4817	0.0120	0.0000	12.7812
Energy	0.0333	0.2841	0.1209	1.8100e-003		0.0230	0.0230		0.0230	0.0230		362.7005	362.7005	6.9500e-003	6.6500e-003	364.8558
Mobile	0.6538	3.1617	8.6597	0.0361	3.3201	0.0262	3.3463	0.8882	0.0244	0.9126		3,679.4364	3,679.4364	0.1649		3,683.5599
Total	3.6573	3.5257	15.7093	0.0382	3.3201	0.0876	3.4076	0.8882	0.0857	0.9740	0.0000	4,054.6185	4,054.6185	0.1839	6.6500e-003	4,061.1969

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.9702	0.0798	6.9287	3.70E-04		0.0384	0.0384		0.0384	0.0384	0	12.4817	12.4817	0.012	0	12.7812
Energy	0.0333	0.2841	0.1209	1.81E-03		0.023	0.023		0.023	0.023		362.7005	362.7005	6.95E-03	6.65E-03	364.8558

Mobile	0.6538	3.1617	8.6597	0.0361	3.3201	0.0262	3.3463	0.8882	0.0244	0.9126		3,679.44	3,679.44	0.1649		3,683.56
Total	3.6573	3.5257	15.7093	0.0382	3.3201	0.0876	3.4076	0.8882	0.0857	0.974	0	4,054.62	4,054.62	0.1839	6.65E-03	4,061.20

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/1/2021	12/30/2021	5	22	
2	Site Preparation	Site Preparation	12/1/2021	6/9/2022	5	137	
3	Grading	Grading	12/31/2021	2/10/2022	5	30	
4	Paving	Paving	5/27/2022	6/9/2022	5	10	
5	Building Construction	Building Construction	6/10/2022	11/23/2023	5	380	
6	Architectural Coating	Architectural Coating	6/10/2022	11/23/2023	5	380	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15

Acres of Paving: 0

Residential Indoor: 259,706; Residential Outdoor: 86,569; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 360

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	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38

Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	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	Welders	1	8.00	46	0.45
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	6	15.00	0.00	160.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	63.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5706	0.0000	1.5706	0.2378	0.0000	0.2378			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	1.5706	1.5513	3.1219	0.2378	1.4411	1.6789		3,747.9449	3,747.9449	1.0549		3,774.3174

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	0.0543	1.8618	0.4181	5.4700e-003	0.1271	5.7900e-003	0.1329	0.0348	5.5400e-003	0.0404		592.1421	592.1421	0.0420		593.1908
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	0.0692	0.0450	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
Total	0.1235	1.9068	0.9259	7.0300e-003	0.2947	7.0200e-003	0.3018	0.0793	6.6800e-003	0.0860		747.4922	747.4922	0.0461		748.6450

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7068	0.0000	0.7068	0.1070	0.0000	0.1070			0.0000			0.0000

Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.7068	1.5513	2.2581	0.1070	1.4411	1.5481	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

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	0.0543	1.8618	0.4181	5.4700e-003	0.1271	5.7900e-003	0.1329	0.0348	5.5400e-003	0.0404		592.1421	592.1421	0.0420		593.1908
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	0.0692	0.0450	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
Total	0.1235	1.9068	0.9259	7.0300e-003	0.2947	7.0200e-003	0.3018	0.0793	6.6800e-003	0.0860		747.4922	747.4922	0.0461		748.6450

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

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	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451
Total	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	8.1298	2.0445	10.1743	4.4688	1.8809	6.3497	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

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	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451
Total	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451

3.3 Site Preparation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9307	1.4836	11.4143		3,686.0619	3,686.0619	1.1922		3,715.8655

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	0.0781	0.0487	0.5625	1.8000e-003	0.2012	1.4400e-003	0.2026	0.0534	1.3200e-003	0.0547		179.7366	179.7366	4.5100e-003		179.8494
Total	0.0781	0.0487	0.5625	1.8000e-003	0.2012	1.4400e-003	0.2026	0.0534	1.3200e-003	0.0547		179.7366	179.7366	4.5100e-003		179.8494

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	8.1298	1.6126	9.7424	4.4688	1.4836	5.9524	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

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	0.0781	0.0487	0.5625	1.8000e-003	0.2012	1.4400e-003	0.2026	0.0534	1.3200e-003	0.0547		179.7366	179.7366	4.5100e-003		179.8494
Total	0.0781	0.0487	0.5625	1.8000e-003	0.2012	1.4400e-003	0.2026	0.0534	1.3200e-003	0.0547		179.7366	179.7366	4.5100e-003		179.8494

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000

Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	6.5523	1.1599	7.7123	3.3675	1.0671	4.4346		2,871.9285	2,871.9285	0.9288		2,895.1495

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	0.0692	0.0450	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
Total	0.0692	0.0450	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543

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					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	2.9486	1.1599	4.1085	1.5154	1.0671	2.5825	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495

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	0.0692	0.0450	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
Total	0.0692	0.0450	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543

3.4 Grading - 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					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	6.5523	0.9409	7.4932	3.3675	0.8656	4.2331		2,872.0464	2,872.0464	0.9289		2,895.2684

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	0.0000	0.0000
Worker	0.0651	0.0406	0.4687	1.5000e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		149.7805	149.7805	3.7600e-003		149.8745
Total	0.0651	0.0406	0.4687	1.5000e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		149.7805	149.7805	3.7600e-003		149.8745

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	2.9486	0.9409	3.8894	1.5154	0.8656	2.3810	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0406	0.4687	1.5000e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		149.7805	149.7805	3.7600e-003		149.8745
Total	0.0651	0.0406	0.4687	1.5000e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		149.7805	149.7805	3.7600e-003		149.8745

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091

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	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		199.7073	199.7073	5.0100e-003		199.8326
Total	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		199.7073	199.7073	5.0100e-003		199.8326

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091

Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091

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	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		199.7073	199.7073	5.0100e-003		199.8326
Total	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		199.7073	199.7073	5.0100e-003		199.8326

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0275	0.9017	0.2395	2.4500e-003	0.0640	1.7200e-003	0.0657	0.0184	1.6400e-003	0.0201		262.1942	262.1942	0.0170		262.6199
Worker	0.2733	0.1705	1.9686	6.3100e-003	0.7042	5.0400e-003	0.7092	0.1868	4.6400e-003	0.1914		629.0780	629.0780	0.0158		629.4728
Total	0.3007	1.0722	2.2081	8.7600e-003	0.7682	6.7600e-003	0.7750	0.2052	6.2800e-003	0.2115		891.2722	891.2722	0.0328		892.0927

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0275	0.9017	0.2395	2.4500e-003	0.0640	1.7200e-003	0.0657	0.0184	1.6400e-003	0.0201		262.1942	262.1942	0.0170		262.6199
Worker	0.2733	0.1705	1.9686	6.3100e-003	0.7042	5.0400e-003	0.7092	0.1868	4.6400e-003	0.1914		629.0780	629.0780	0.0158		629.4728
Total	0.3007	1.0722	2.2081	8.7600e-003	0.7682	6.7600e-003	0.7750	0.2052	6.2800e-003	0.2115		891.2722	891.2722	0.0328		892.0927

3.6 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0205	0.6801	0.2118	2.3800e-003	0.0640	8.1000e-004	0.0648	0.0184	7.7000e-004	0.0192		254.3617	254.3617	0.0147		254.7302
Worker	0.2577	0.1542	1.8144	6.0700e-003	0.7042	4.9000e-003	0.7091	0.1868	4.5200e-003	0.1913		605.6168	605.6168	0.0142		605.9724
Total	0.2782	0.8343	2.0261	8.4500e-003	0.7682	5.7100e-003	0.7739	0.2052	5.2900e-003	0.2105		859.9784	859.9784	0.0290		860.7027

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0205	0.6801	0.2118	2.3800e-003	0.0640	8.1000e-004	0.0648	0.0184	7.7000e-004	0.0192		254.3617	254.3617	0.0147		254.7302
Worker	0.2577	0.1542	1.8144	6.0700e-003	0.7042	4.9000e-003	0.7091	0.1868	4.5200e-003	0.1913		605.6168	605.6168	0.0142		605.9724
Total	0.2782	0.8343	2.0261	8.4500e-003	0.7682	5.7100e-003	0.7739	0.2052	5.2900e-003	0.2105		859.9784	859.9784	0.0290		860.7027

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.1162					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	2.3208	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	0.0564	0.0352	0.4062	1.3000e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		129.8098	129.8098	3.2600e-003		129.8912
Total	0.0564	0.0352	0.4062	1.3000e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		129.8098	129.8098	3.2600e-003		129.8912

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.1162					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	2.3208	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

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	0.0564	0.0352	0.4062	1.3000e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		129.8098	129.8098	3.2600e-003		129.8912
Total	0.0564	0.0352	0.4062	1.3000e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		129.8098	129.8098	3.2600e-003		129.8912

3.7 Architectural Coating - 2023
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.1162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	2.3079	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0532	0.0318	0.3744	1.2500e-003	0.1453	1.0100e-003	0.1463	0.0385	9.3000e-004	0.0395		124.9685	124.9685	2.9400e-003		125.0419
Total	0.0532	0.0318	0.3744	1.2500e-003	0.1453	1.0100e-003	0.1463	0.0385	9.3000e-004	0.0395		124.9685	124.9685	2.9400e-003		125.0419

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.1162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	2.3079	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

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	0.0532	0.0318	0.3744	1.2500e-003	0.1453	1.0100e-003	0.1463	0.0385	9.3000e-004	0.0395		124.9685	124.9685	2.9400e-003		125.0419
Total	0.0532	0.0318	0.3744	1.2500e-003	0.1453	1.0100e-003	0.1463	0.0385	9.3000e-004	0.0395		124.9685	124.9685	2.9400e-003		125.0419

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6538	3.1617	8.6597	0.0361	3.3201	0.0262	3.3463	0.8882	0.0244	0.9126		3,679.4364	3,679.4364	0.1649		3,683.5599
Unmitigated	0.6538	3.1617	8.6597	0.0361	3.3201	0.0262	3.3463	0.8882	0.0244	0.9126		3,679.4364	3,679.4364	0.1649		3,683.5599

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	456.96	362.04	288.12	1,432,743	1,432,743
Parking Lot	0.00	0.00	0.00		
Total	456.96	362.04	288.12	1,432,743	1,432,743

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse High Rise	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Parking Lot	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

Percent of Electricity Use Generated with Renewable Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0333	0.2841	0.1209	1.8100e-003		0.0230	0.0230		0.0230	0.0230		362.7005	362.7005	6.9500e-003	6.6500e-003	364.8558
NaturalGas Unmitigated	0.0333	0.2841	0.1209	1.8100e-003		0.0230	0.0230		0.0230	0.0230		362.7005	362.7005	6.9500e-003	6.6500e-003	364.8558

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse High Rise	3082.95	0.0333	0.2841	0.1209	1.8100e-003		0.0230	0.0230		0.0230	0.0230		362.7005	362.7005	6.9500e-003	6.6500e-003	364.8558
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0333	0.2841	0.1209	1.8100e-003		0.0230	0.0230		0.0230	0.0230		362.7005	362.7005	6.9500e-003	6.6500e-003	364.8558

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	3.08295	0.0333	0.2841	0.1209	1.8100e-003		0.0230	0.0230		0.0230	0.0230		362.7005	362.7005	6.9500e-003	6.6500e-003	364.8558
High Rise																	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0333	0.2841	0.1209	1.8100e-003		0.0230	0.0230		0.0230	0.0230		362.7005	362.7005	6.9500e-003	6.6500e-003	364.8558

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.9702	0.0798	6.9287	3.7000e-004		0.0384	0.0384		0.0384	0.0384	0.0000	12.4817	12.4817	0.0120	0.0000	12.7812
Unmitigated	2.9702	0.0798	6.9287	3.7000e-004		0.0384	0.0384		0.0384	0.0384	0.0000	12.4817	12.4817	0.0120	0.0000	12.7812

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	0.2203					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.5415					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2084	0.0798	6.9287	3.7000e-004		0.0384	0.0384		0.0384	0.0384		12.4817	12.4817	0.0120		12.7812
Total	2.9702	0.0798	6.9287	3.7000e-004		0.0384	0.0384		0.0384	0.0384	0.0000	12.4817	12.4817	0.0120	0.0000	12.7812

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	0.2203					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.5415					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2084	0.0798	6.9287	3.7000e-004		0.0384	0.0384		0.0384	0.0384		12.4817	12.4817	0.0120		12.7812
Total	2.9702	0.0798	6.9287	3.7000e-004		0.0384	0.0384		0.0384	0.0384	0.0000	12.4817	12.4817	0.0120	0.0000	12.7812

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

1616 West Cameron Avenue Residential Project AQ 2024 - South Coast AQMD Air District, Annual

1616 West Cameron Avenue Residential Project AQ 2024
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	15.00	Space	0.00	6,000.00	0
Condo/Townhouse High Rise	84.00	Dwelling Unit	3.25	128,250.00	240

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9	Operational Year		2024	
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	495.11	CH4 Intensity (lb/MW hr)	0.02	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Residential Project located in West Covina, LA County --> SCAQMD, Adjusted intensity factors for 2024

Land Use - 84 Townhome Units with garages and driveways ~128,250 SF from plans (residential parking accounted for in the model). 15 parking lot spaces (4.4 surface and 1 ADA space). Approximate population is 240.

Construction Phase - Project Applicant Construction Schedule

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Default Construction Equipment

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - 35,105 sf of general office buildings per traffic TIA

Grading - Balanced Site

Vehicle Trips - Project Specific Trip Generation Rates based on TIA. Daily: 5.44,

Woodstoves - No woodstoves or hearths per project applicant

Energy Use - 2019 Title 24 Standards, single-family residential would be reduced by 7% (townhomes are single-family homes). Reduce 252.63 by 7% =

234.9456
 Water And Wastewater - Reduction of indoor water use by 20% per 2016 Title 24 Standards (5,472,938.15*0.80) = 4,378,350.52. Assumed 100% aerobic

Construction Off-road Equipment Mitigation - Fugitive Dust Control BMPs per SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - No hearths

Energy Mitigation - 2019 Building Energy Efficiency Standards require the installation of solar PV, 100% electricity generated by solar. energy efficient

Water Mitigation - Water-efficient irrigation systems per applicant

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	380.00
tblConstructionPhase	NumDays	230.00	380.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	8.00	30.00
tblConstructionPhase	NumDays	18.00	10.00
tblConstructionPhase	NumDays	5.00	137.00
tblEnergyUse	T24E	252.63	234.95
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	71.40	0.00
tblFireplaces	NumberNoFireplace	8.40	0.00
tblFireplaces	NumberWood	4.20	0.00
tblLandUse	LandUseSquareFeet	84,000.00	128,250.00
tblLandUse	LotAcreage	0.13	0.00
tblLandUse	LotAcreage	1.31	3.25
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	702.44	495.11

tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	WD_TR	4.18	5.44
tblWater	IndoorWaterUseRate	5,472,938.15	4,378,350.52
tblWoodstoves	NumberCatalytic	4.20	0.00
tblWoodstoves	NumberNoncatalytic	4.20	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

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					
2021	0.0828	0.8460	0.5061	9.8000e-004	0.2415	0.0413	0.2828	0.1208	0.0381	0.1589	0.0000	86.7550	86.7550	0.0239	0.0000	87.3522
2022	0.5367	3.5647	2.9704	5.7600e-003	1.2053	0.1737	1.3790	0.6363	0.1615	0.7978	0.0000	505.5339	505.5339	0.1209	0.0000	508.5553
2023	0.4891	1.9386	2.4000	4.6600e-003	0.1049	0.0909	0.1959	0.0280	0.0861	0.1141	0.0000	407.4199	407.4199	0.0697	0.0000	409.1617
Maximum	0.5367	3.5647	2.9704	5.7600e-003	1.2053	0.1737	1.3790	0.6363	0.1615	0.7978	0.0000	505.5339	505.5339	0.1209	0.0000	508.5553

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0828	0.8460	0.5061	9.8000e-004	0.1117	0.0413	0.1530	0.0552	0.0381	0.0933	0.0000	86.7549	86.7549	0.0239	0.0000	87.3521

2022	0.5367	3.5647	2.9704	5.7600e-003	0.5865	0.1737	0.7602	0.2981	0.1615	0.4596	0.0000	505.5334	505.5334	0.1209	0.0000	508.5548
2023	0.4891	1.9386	2.4000	4.6600e-003	0.1049	0.0909	0.1959	0.0280	0.0861	0.1141	0.0000	407.4195	407.4195	0.0697	0.0000	409.1613
Maximum	0.5367	3.5647	2.9704	5.7600e-003	0.5865	0.1737	0.7602	0.2981	0.1615	0.4596	0.0000	505.5334	505.5334	0.1209	0.0000	508.5548

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	48.24	0.00	40.30	51.43	0.00	37.71	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	12-1-2021	2-28-2022	1.9972	1.9972
2	3-1-2022	5-31-2022	1.2141	1.2141
3	6-1-2022	8-31-2022	0.8172	0.8172
4	9-1-2022	11-30-2022	0.7313	0.7313
5	12-1-2022	2-28-2023	0.6868	0.6868
6	3-1-2023	5-31-2023	0.6814	0.6814
7	6-1-2023	8-31-2023	0.6810	0.6810
8	9-1-2023	9-30-2023	0.2221	0.2221
		Highest	1.9972	1.9972

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	0.5301	9.9800e-003	0.8661	5.0000e-005		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003	0.0000	1.4154	1.4154	1.3600e-003	0.0000	1.4494
Energy	6.0700e-003	0.0519	0.0221	3.3000e-004		4.1900e-003	4.1900e-003		4.1900e-003	4.1900e-003	0.0000	141.4526	141.4526	4.4400e-003	1.7600e-003	142.0876
Mobile	0.1070	0.5368	1.4716	6.1100e-003	0.5444	4.3600e-003	0.5487	0.1459	4.0500e-003	0.1499	0.0000	565.5238	565.5238	0.0248	0.0000	566.1449
Waste						0.0000	0.0000		0.0000	0.0000	7.8436	0.0000	7.8436	0.4635	0.0000	19.4321

Water						0.0000	0.0000		0.0000	0.0000	1.3891	21.4121	22.8012	0.1435	3.5400e-003	27.4449
Total	0.6432	0.5986	2.3597	6.4900e-003	0.5444	0.0134	0.5577	0.1459	0.0130	0.1589	9.2326	729.8039	739.0365	0.6377	5.3000e-003	756.5589

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	0.5301	9.9800e-003	0.8661	5.0000e-005		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003	0.0000	1.4154	1.4154	1.3600e-003	0.0000	1.4494
Energy	6.0700e-003	0.0519	0.0221	3.3000e-004		4.1900e-003	4.1900e-003		4.1900e-003	4.1900e-003	0.0000	60.0491	60.0491	1.1500e-003	1.1000e-003	60.406
Mobile	0.1070	0.5368	1.4716	6.1100e-003	0.5444	4.3600e-003	0.5487	0.1459	4.0500e-003	0.1499	0.0000	565.5238	565.5238	0.0248	0.0000	566.1449
Waste						0.0000	0.0000		0.0000	0.0000	7.8436	0.0000	7.8436	0.4635	0.0000	19.4321
Water						0.0000	0.0000		0.0000	0.0000	1.3891	20.8870	22.2760	0.1435	3.5400e-003	26.918
Total	0.6432	0.5986	2.3597	6.4900e-003	0.5444	0.0134	0.5577	0.1459	0.0130	0.1589	9.2326	647.8753	657.1079	0.6344	4.6400e-003	674.3504

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.23	11.09	0.52	12.45	10.87

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	12/1/2021	12/30/2021	5	22	
2	Site Preparation	Site Preparation	12/1/2021	6/9/2022	5	137	
3	Grading	Grading	12/31/2021	2/10/2022	5	30	
4	Paving	Paving	5/27/2022	6/9/2022	5	10	

5	Building Construction	Building Construction	6/10/2022	11/23/2023	5	380
6	Architectural Coating	Architectural Coating	6/10/2022	11/23/2023	5	380

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15

Acres of Paving: 0

Residential Indoor: 259,706; Residential Outdoor: 86,569; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 360

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	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	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	Welders	1	8.00	46	0.45
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	6	15.00	0.00	160.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	63.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0173	0.0000	0.0173	2.6200e-003	0.0000	2.6200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.3459	0.2372	4.3000e-004		0.0171	0.0171		0.0159	0.0159	0.0000	37.4009	37.4009	0.0105	0.0000	37.6640
Total	0.0348	0.3459	0.2372	4.3000e-004	0.0173	0.0171	0.0343	2.6200e-003	0.0159	0.0185	0.0000	37.4009	37.4009	0.0105	0.0000	37.6640

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
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Category	tons/yr										MT/yr					
Hauling	5.9000e-004	0.0209	4.4200e-003	6.0000e-005	1.3800e-003	6.0000e-005	1.4400e-003	3.8000e-004	6.0000e-005	4.4000e-004	0.0000	5.9736	5.9736	4.1000e-004	0.0000	5.9838
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	5.1000e-004	5.7500e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.5768	1.5768	4.0000e-005	0.0000	1.5779
Total	1.2800e-003	0.0214	0.0102	8.0000e-005	3.1900e-003	7.0000e-005	3.2600e-003	8.6000e-004	7.0000e-005	9.3000e-004	0.0000	7.5504	7.5504	4.5000e-004	0.0000	7.5617

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive 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					7.7700e-003	0.0000	7.7700e-003	1.1800e-003	0.0000	1.1800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.3459	0.2372	4.3000e-004		0.0171	0.0171		0.0159	0.0159	0.0000	37.4008	37.4008	0.0105	0.0000	37.6640
Total	0.0348	0.3459	0.2372	4.3000e-004	7.7700e-003	0.0171	0.0248	1.1800e-003	0.0159	0.0170	0.0000	37.4008	37.4008	0.0105	0.0000	37.6640

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive 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	5.9000e-004	0.0209	4.4200e-003	6.0000e-005	1.3800e-003	6.0000e-005	1.4400e-003	3.8000e-004	6.0000e-005	4.4000e-004	0.0000	5.9736	5.9736	4.1000e-004	0.0000	5.9838
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	5.1000e-004	5.7500e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.5768	1.5768	4.0000e-005	0.0000	1.5779

Total	1.2800e-003	0.0214	0.0102	8.0000e-005	3.1900e-003	7.0000e-005	3.2600e-003	8.6000e-004	7.0000e-005	9.3000e-004	0.0000	7.5504	7.5504	4.5000e-004	0.0000	7.5617
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3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2078	0.0000	0.2078	0.1142	0.0000	0.1142	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0447	0.4657	0.2433	4.4000e-004		0.0235	0.0235		0.0216	0.0216	0.0000	38.4511	38.4511	0.0124	0.0000	38.7620
Total	0.0447	0.4657	0.2433	4.4000e-004	0.2078	0.0235	0.2313	0.1142	0.0216	0.1358	0.0000	38.4511	38.4511	0.0124	0.0000	38.7620

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6000e-004	6.4000e-004	7.2100e-003	2.0000e-005	2.2700e-003	2.0000e-005	2.2900e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	1.9782	1.9782	5.0000e-005	0.0000	1.9795
Total	8.6000e-004	6.4000e-004	7.2100e-003	2.0000e-005	2.2700e-003	2.0000e-005	2.2900e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	1.9782	1.9782	5.0000e-005	0.0000	1.9795

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					0.0935	0.0000	0.0935	0.0514	0.0000	0.0514	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0447	0.4657	0.2433	4.4000e-004		0.0235	0.0235		0.0216	0.0216	0.0000	38.4510	38.4510	0.0124	0.0000	38.7619
Total	0.0447	0.4657	0.2433	4.4000e-004	0.0935	0.0235	0.1170	0.0514	0.0216	0.0730	0.0000	38.4510	38.4510	0.0124	0.0000	38.7619

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6000e-004	6.4000e-004	7.2100e-003	2.0000e-005	2.2700e-003	2.0000e-005	2.2900e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	1.9782	1.9782	5.0000e-005	0.0000	1.9795
Total	8.6000e-004	6.4000e-004	7.2100e-003	2.0000e-005	2.2700e-003	2.0000e-005	2.2900e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	1.9782	1.9782	5.0000e-005	0.0000	1.9795

3.3 Site Preparation - 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					
Fugitive Dust					1.0298	0.0000	1.0298	0.5661	0.0000	0.5661	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1807	1.8858	1.1228	2.1700e-003		0.0919	0.0919		0.0846	0.0846	0.0000	190.6045	190.6045	0.0617	0.0000	192.1457

Total	0.1807	1.8858	1.1228	2.1700e-003	1.0298	0.0919	1.1217	0.5661	0.0846	0.6506	0.0000	190.6045	190.6045	0.0617	0.0000	192.1457
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0200e-003	2.8500e-003	0.0330	1.0000e-004	0.0113	8.0000e-005	0.0113	2.9900e-003	8.0000e-005	3.0600e-003	0.0000	9.4535	9.4535	2.4000e-004	0.0000	9.4595
Total	4.0200e-003	2.8500e-003	0.0330	1.0000e-004	0.0113	8.0000e-005	0.0113	2.9900e-003	8.0000e-005	3.0600e-003	0.0000	9.4535	9.4535	2.4000e-004	0.0000	9.4595

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					0.4634	0.0000	0.4634	0.2547	0.0000	0.2547	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1807	1.8858	1.1228	2.1700e-003		0.0919	0.0919		0.0846	0.0846	0.0000	190.6043	190.6043	0.0617	0.0000	192.1454
Total	0.1807	1.8858	1.1228	2.1700e-003	0.4634	0.0919	0.5553	0.2547	0.0846	0.3393	0.0000	190.6043	190.6043	0.0617	0.0000	192.1454

Mitigated Construction Off-Site

Worker	3.0000e-005	2.0000e-005	2.6000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0717	0.0717	0.0000	0.0000	0.0717
Total	3.0000e-005	2.0000e-005	2.6000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0717	0.0717	0.0000	0.0000	0.0717

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					4.9300e-003	0.0000	4.9300e-003	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1500e-003	0.0124	7.9300e-003	1.0000e-005		5.8000e-004	5.8000e-004		5.3000e-004	5.3000e-004	0.0000	1.3027	1.3027	4.2000e-004	0.0000	1.3132
Total	1.1500e-003	0.0124	7.9300e-003	1.0000e-005	4.9300e-003	5.8000e-004	5.5100e-003	1.1300e-003	5.3000e-004	1.6600e-003	0.0000	1.3027	1.3027	4.2000e-004	0.0000	1.3132

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.6000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0717	0.0717	0.0000	0.0000	0.0717
Total	3.0000e-005	2.0000e-005	2.6000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0717	0.0717	0.0000	0.0000	0.0717

3.4 Grading - 2022

Unmitigated Construction On-Site

Off-Road	0.0283	0.3024	0.2215	4.3000e-004		0.0136	0.0136		0.0126	0.0126	0.0000	37.7794	37.7794	0.0122	0.0000	38.0848
Total	0.0283	0.3024	0.2215	4.3000e-004	0.0429	0.0136	0.0565	0.0220	0.0126	0.0345	0.0000	37.7794	37.7794	0.0122	0.0000	38.0848

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5000e-004	6.1000e-004	7.0000e-003	2.0000e-005	2.3900e-003	2.0000e-005	2.4000e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.0040	2.0040	5.0000e-005	0.0000	2.0053
Total	8.5000e-004	6.1000e-004	7.0000e-003	2.0000e-005	2.3900e-003	2.0000e-005	2.4000e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.0040	2.0040	5.0000e-005	0.0000	2.0053

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.8800e-003	0.0476	0.0610	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	8.1879	8.1879	2.5700e-003	0.0000	8.2523
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.8800e-003	0.0476	0.0610	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	8.1879	8.1879	2.5700e-003	0.0000	8.2523

Unmitigated Construction Off-Site

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.8000e-004	3.2200e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9214	0.9214	2.0000e-005	0.0000	0.9220
Total	3.9000e-004	2.8000e-004	3.2200e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9214	0.9214	2.0000e-005	0.0000	0.9220

3.6 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	0.1246	1.1399	1.1945	1.9700e-003		0.0591	0.0591		0.0556	0.0556	0.0000	169.1594	169.1594	0.0405	0.0000	170.1726
Total	0.1246	1.1399	1.1945	1.9700e-003		0.0591	0.0591		0.0556	0.0556	0.0000	169.1594	169.1594	0.0405	0.0000	170.1726

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9500e-003	0.0670	0.0166	1.8000e-004	4.6000e-003	1.2000e-004	4.7200e-003	1.3300e-003	1.2000e-004	1.4500e-003	0.0000	17.6658	17.6658	1.0800e-003	0.0000	17.6929
Worker	0.0180	0.0128	0.1480	4.7000e-004	0.0505	3.7000e-004	0.0508	0.0134	3.4000e-004	0.0137	0.0000	42.3751	42.3751	1.0600e-003	0.0000	42.4017
Total	0.0200	0.0798	0.1645	6.5000e-004	0.0551	4.9000e-004	0.0555	0.0147	4.6000e-004	0.0152	0.0000	60.0408	60.0408	2.1400e-003	0.0000	60.0946

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	0.1246	1.1399	1.1945	1.9700e-003		0.0591	0.0591		0.0556	0.0556	0.0000	169.1592	169.1592	0.0405	0.0000	170.1724
Total	0.1246	1.1399	1.1945	1.9700e-003		0.0591	0.0591		0.0556	0.0556	0.0000	169.1592	169.1592	0.0405	0.0000	170.1724

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9500e-003	0.0670	0.0166	1.8000e-004	4.6000e-003	1.2000e-004	4.7200e-003	1.3300e-003	1.2000e-004	1.4500e-003	0.0000	17.6658	17.6658	1.0800e-003	0.0000	17.6929
Worker	0.0180	0.0128	0.1480	4.7000e-004	0.0505	3.7000e-004	0.0508	0.0134	3.4000e-004	0.0137	0.0000	42.3751	42.3751	1.0600e-003	0.0000	42.4017
Total	0.0200	0.0798	0.1645	6.5000e-004	0.0551	4.9000e-004	0.0555	0.0147	4.6000e-004	0.0152	0.0000	60.0408	60.0408	2.1400e-003	0.0000	60.0946

3.6 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	0.1840	1.6830	1.9006	3.1500e-003		0.0819	0.0819		0.0770	0.0770	0.0000	271.2116	271.2116	0.0645	0.0000	272.8245

Total	0.1840	1.6830	1.9006	3.1500e-003		0.0819	0.0819		0.0770	0.0770	0.0000	271.2116	271.2116	0.0645	0.0000	272.8245
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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	2.3300e-003	0.0808	0.0237	2.8000e-004	7.3700e-003	9.0000e-005	7.4700e-003	2.1300e-003	9.0000e-005	2.2200e-003	0.0000	27.4602	27.4602	1.5100e-003	0.0000	27.4980
Worker	0.0272	0.0186	0.2187	7.2000e-004	0.0809	5.7000e-004	0.0814	0.0215	5.3000e-004	0.0220	0.0000	65.3833	65.3833	1.5400e-003	0.0000	65.4217
Total	0.0295	0.0993	0.2424	1.0000e-003	0.0882	6.6000e-004	0.0889	0.0236	6.2000e-004	0.0242	0.0000	92.8435	92.8435	3.0500e-003	0.0000	92.9197

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	0.1840	1.6830	1.9006	3.1500e-003		0.0819	0.0819		0.0770	0.0770	0.0000	271.2112	271.2112	0.0645	0.0000	272.8242
Total	0.1840	1.6830	1.9006	3.1500e-003		0.0819	0.0819		0.0770	0.0770	0.0000	271.2112	271.2112	0.0645	0.0000	272.8242

Mitigated Construction Off-Site

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7100e-003	2.6400e-003	0.0305	1.0000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	7.0000e-005	2.8300e-003	0.0000	8.7441	8.7441	2.2000e-004	0.0000	8.7496
Total	3.7100e-003	2.6400e-003	0.0305	1.0000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	7.0000e-005	2.8300e-003	0.0000	8.7441	8.7441	2.2000e-004	0.0000	8.7496

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	0.1545					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.1028	0.1324	2.2000e-004		5.9700e-003	5.9700e-003		5.9700e-003	5.9700e-003	0.0000	18.6387	18.6387	1.2100e-003	0.0000	18.6691
Total	0.1694	0.1028	0.1324	2.2000e-004		5.9700e-003	5.9700e-003		5.9700e-003	5.9700e-003	0.0000	18.6387	18.6387	1.2100e-003	0.0000	18.6691

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7100e-003	2.6400e-003	0.0305	1.0000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	7.0000e-005	2.8300e-003	0.0000	8.7441	8.7441	2.2000e-004	0.0000	8.7496
Total	3.7100e-003	2.6400e-003	0.0305	1.0000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	7.0000e-005	2.8300e-003	0.0000	8.7441	8.7441	2.2000e-004	0.0000	8.7496

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

Off-Road	0.0224	0.1525	0.2119	3.5000e-004		8.2900e-003	8.2900e-003		8.2900e-003	8.2900e-003	0.0000	29.8730	29.8730	1.7900e-003	0.0000	29.9177
Total	0.2700	0.1525	0.2119	3.5000e-004		8.2900e-003	8.2900e-003		8.2900e-003	8.2900e-003	0.0000	29.8730	29.8730	1.7900e-003	0.0000	29.9177

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	5.6000e-003	3.8300e-003	0.0451	1.5000e-004	0.0167	1.2000e-004	0.0168	4.4300e-003	1.1000e-004	4.5400e-003	0.0000	13.4918	13.4918	3.2000e-004	0.0000	13.4997
Total	5.6000e-003	3.8300e-003	0.0451	1.5000e-004	0.0167	1.2000e-004	0.0168	4.4300e-003	1.1000e-004	4.5400e-003	0.0000	13.4918	13.4918	3.2000e-004	0.0000	13.4997

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive 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	0.1070	0.5368	1.4716	6.1100e-003	0.5444	4.3600e-003	0.5487	0.1459	4.0500e-003	0.1499	0.0000	565.5238	565.5238	0.0248	0.0000	566.1449
Unmitigated	0.1070	0.5368	1.4716	6.1100e-003	0.5444	4.3600e-003	0.5487	0.1459	4.0500e-003	0.1499	0.0000	565.5238	565.5238	0.0248	0.0000	566.1449

Category	tons/yr								MT/yr							
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	81.4034	81.4034	3.2900e-003	6.6000e-004	81.6816
NaturalGas Mitigated	6.0700e-003	0.0519	0.0221	3.3000e-004		4.1900e-003	4.1900e-003		4.1900e-003	4.1900e-003	0.0000	60.0491	60.0491	1.1500e-003	1.1000e-003	60.4060
NaturalGas Unmitigated	6.0700e-003	0.0519	0.0221	3.3000e-004		4.1900e-003	4.1900e-003		4.1900e-003	4.1900e-003	0.0000	60.0491	60.0491	1.1500e-003	1.1000e-003	60.4060

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse High Rise	1.12528e+006	6.0700e-003	0.0519	0.0221	3.3000e-004		4.1900e-003	4.1900e-003		4.1900e-003	4.1900e-003	0.0000	60.0491	60.0491	1.1500e-003	1.1000e-003	60.4060
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		6.0700e-003	0.0519	0.0221	3.3000e-004		4.1900e-003	4.1900e-003		4.1900e-003	4.1900e-003	0.0000	60.0491	60.0491	1.1500e-003	1.1000e-003	60.4060

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse High Rise	1.12528e+006	6.0700e-003	0.0519	0.0221	3.3000e-004		4.1900e-003	4.1900e-003		4.1900e-003	4.1900e-003	0.0000	60.0491	60.0491	1.1500e-003	1.1000e-003	60.4060
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		6.0700e-003	0.0519	0.0221	3.3000e-004		4.1900e-003	4.1900e-003		4.1900e-003	4.1900e-003	0.0000	60.0491	60.0491	1.1500e-003	1.1000e-003	60.4060

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse High Rise	360373	80.9318	3.2700e-003	6.5000e-004	81.2084
Parking Lot	2100	0.4716	2.0000e-005	0.0000	0.4732
Total		81.4034	3.2900e-003	6.5000e-004	81.6816

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse High Rise	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	0.5301	9.9800e-003	0.8661	5.0000e-005		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003	0.0000	1.4154	1.4154	1.3600e-003	0.0000	1.4494
Unmitigated	0.5301	9.9800e-003	0.8661	5.0000e-005		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003	0.0000	1.4154	1.4154	1.3600e-003	0.0000	1.4494

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	0.0402					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4638					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0261	9.9800e-003	0.8661	5.0000e-005		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003	0.0000	1.4154	1.4154	1.3600e-003	0.0000	1.4494
Total	0.5301	9.9800e-003	0.8661	5.0000e-005		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003	0.0000	1.4154	1.4154	1.3600e-003	0.0000	1.4494

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
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SubCategory	tons/yr								MT/yr							
Architectural Coating	0.0402					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	0.4638					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	0.0261	9.9800e-003	0.8661	5.0000e-005		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003	0.0000	1.4154	1.4154	1.3600e-003	0.0000	1.4494
Total	0.5301	9.9800e-003	0.8661	5.0000e-005		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003	0.0000	1.4154	1.4154	1.3600e-003	0.0000	1.4494

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	22.2760	0.1435	3.5400e-003	26.9180
Unmitigated	22.8012	0.1435	3.5400e-003	27.4449

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

Condo/Townhouse	4.37835 /	22.8012	0.1435	3.5400e-	27.4449
High Rise	3.45033			003	
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		22.8012	0.1435	3.5400e-	27.4449
				003	

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	4.37835 /	22.2760	0.1435	3.5400e-	26.9180
High Rise	3.23986			003	
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		22.2760	0.1435	3.5400e-	26.9180
				003	

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.8436	0.4635	0.0000	19.4321
Unmitigated	7.8436	0.4635	0.0000	19.4321

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse High Rise	38.64	7.8436	0.4635	0.0000	19.4321
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		7.8436	0.4635	0.0000	19.4321

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse High Rise	38.64	7.8436	0.4635	0.0000	19.4321
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		7.8436	0.4635	0.0000	19.4321

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

1616 West Cameron Avenue Existing Land Use 2024 - South Coast AQMD Air District, Winter

1616 West Cameron Avenue Existing Land Use 2024
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	35.10	1000sqft	3.25	35,102.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	495.11	CH4 Intensity (lb/MW hr)	0.02	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Existing Land Use located in West Covina, LA County --> SCAQMD
 Land Use - Existing Land Use: 35,102 sf of general office use per traffic TIA
 Construction Phase - No construction, operation only model
 Vehicle Trips - Project Specific Trip Generation Rates based on TIA. Daily: 9.74, Saturday: 2.17, Sunday: 0.93
 Woodstoves -
 Energy Use -
 Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	0.00
tblLandUse	LandUseSquareFeet	35,100.00	35,102.00

tblLandUse	LotAcreage	0.81	3.25
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	702.44	495.11
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	WD_TR	11.03	9.74

2.0 Emissions Summary

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7845	3.00E-05	3.58E-03	0		1.00E-05	1.00E-05		1.00E-05	1.00E-05		7.68E-03	7.68E-03	2.00E-05		8.18E-03
Energy	0.0108	0.0982	0.0825	5.90E-04		7.46E-03	7.46E-03		7.46E-03	7.46E-03	117.7798	117.7798	2.26E-03	2.16E-03		118.4797
Mobile	0.477	2.2972	6.1739	0.0255	2.3417	0.0186	2.3602	0.6265	0.0173	0.6438	2,604.38	2,604.38	0.1177			2,607.32
Total	1.2723	2.3954	6.2599	0.0261	2.3417	0.0261	2.3677	0.6265	0.0248	0.6512		2,722.17	2,722.17	0.12	2.16E-03	2,725.81

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7845	3.0000e-005	3.5800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6800e-003	7.6800e-003	2.0000e-005		8.1800e-003
Energy	0.0108	0.0982	0.0825	5.9000e-004		7.4600e-003	7.4600e-003		7.4600e-003	7.4600e-003	117.7798	117.7798	2.2600e-003	2.1600e-003		118.4797

1616 West Cameron Avenue Existing Land Use 2024 - South Coast AQMD Air District, Annual

1616 West Cameron Avenue Existing Land Use 2024
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	35.10	1000sqft	3.25	35,102.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	495.11	CH4 Intensity (lb/MW hr)	0.02	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Existing Land Use located in West Covina, LA County --> SCAQMD
 Land Use - Existing Land Use: 35,102 sf of general office use per traffic TIA
 Construction Phase - No construction, operation only model
 Vehicle Trips - Project Specific Trip Generation Rates based on TIA. Daily: 9.74, Saturday: 2.17, Sunday: 0.93
 Woodstoves -
 Energy Use -
 Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	0.00
tblLandUse	LandUseSquareFeet	35,100.00	35,102.00

tblLandUse	LotAcreage	0.81	3.25
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	702.44	495.11
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	WD_TR	11.03	9.74

2.0 Emissions Summary

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	0.1432	0	4.50E-04	0		0	0		0	0	0	8.70E-04	8.70E-04	0	0	9.30E-04
Energy	1.97E-03	0.0179	0.0151	1.10E-04		1.36E-03	1.36E-03		1.36E-03	1.36E-03	0	121.9018	121.9018	4.51E-03	1.18E-03	122.3676
Mobile	0.0651	0.3255	0.8751	3.61E-03	0.3204	2.58E-03	0.323	0.0859	2.40E-03	0.0883	0	334.1321	334.1321	0.0148	0	334.5017
Waste						0	0		0	0	6.6256	0	6.6256	0.3916	0	16.4147
Water						0	0		0	0	1.9792	27.7827	29.7619	0.2044	5.02E-03	36.3692
Total	0.2102	0.3434	0.8906	3.72E-03	0.3204	3.94E-03	0.3244	0.0859	3.76E-03	0.0896	8.6048	483.8175	492.4223	0.6153	6.20E-03	509.6542

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	0.1432	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.7000e-004	8.7000e-004	0.0000	0.0000	9.3000e-004
Energy	1.9700e-003	0.0179	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	121.9018	121.9018	4.5100e-003	1.1800e-003	122.3676
Mobile	0.0651	0.3255	0.8751	3.6100e-003	0.3204	2.5800e-003	0.3230	0.0859	2.4000e-003	0.0883	0.0000	334.1321	334.1321	0.0148	0.0000	334.5017
Waste						0.0000	0.0000		0.0000	0.0000	6.6256	0.0000	6.6256	0.3916	0.0000	16.4147
Water						0.0000	0.0000		0.0000	0.0000	1.9792	27.7827	29.7619	0.2044	5.0200e-003	36.3692
Total	0.2102	0.3434	0.8906	3.7200e-003	0.3204	3.9400e-003	0.3244	0.0859	3.7600e-003	0.0896	8.6048	483.8175	492.4223	0.6153	6.2000e-003	509.6542

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive 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	0.0651	0.3255	0.8751	3.6100e-003	0.3204	2.5800e-003	0.3230	0.0859	2.4000e-003	0.0883	0.0000	334.1321	334.1321	0.0148	0.0000	334.5017
Unmitigated	0.0651	0.3255	0.8751	3.6100e-003	0.3204	2.5800e-003	0.3230	0.0859	2.4000e-003	0.0883	0.0000	334.1321	334.1321	0.0148	0.0000	334.5017

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	341.87	86.35	36.86	843,365	843,365

Total	341.87	86.35	36.86	843,365	843,365
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4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	102.4020	102.4020	4.1400e-003	8.3000e-004	102.7520
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	102.4020	102.4020	4.1400e-003	8.3000e-004	102.7520
NaturalGas Mitigated	1.9700e-003	0.0179	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	19.4998	19.4998	3.7000e-004	3.6000e-004	19.6156
NaturalGas Unmitigated	1.9700e-003	0.0179	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	19.4998	19.4998	3.7000e-004	3.6000e-004	19.6156

5.2 Energy by Land Use - NaturalGas Unmitigated

	Natural Gas 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					
General Office Building	365412	1.9700e-003	0.0179	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	19.4998	19.4998	3.7000e-004	3.6000e-004	19.6156
Total		1.9700e-003	0.0179	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	19.4998	19.4998	3.7000e-004	3.6000e-004	19.6156

Mitigated

	Natural Gas 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					
General Office Building	365412	1.9700e-003	0.0179	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	19.4998	19.4998	3.7000e-004	3.6000e-004	19.6156
Total		1.9700e-003	0.0179	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	19.4998	19.4998	3.7000e-004	3.6000e-004	19.6156

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	455975	102.4020	4.1400e-003	8.3000e-004	102.7520
Total		102.4020	4.1400e-003	8.3000e-004	102.7520

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	455975	102.4020	4.1400e-003	8.3000e-004	102.7520
Total		102.4020	4.1400e-003	8.3000e-004	102.7520

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1432	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.7000e-004	8.7000e-004	0.0000	0.0000	9.3000e-004
Unmitigated	0.1432	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.7000e-004	8.7000e-004	0.0000	0.0000	9.3000e-004

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	0.0163					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1268					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.7000e-004	8.7000e-004	0.0000	0.0000	9.3000e-004
Total	0.1432	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.7000e-004	8.7000e-004	0.0000	0.0000	9.3000e-004

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	0.0163					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1268					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.7000e-004	8.7000e-004	0.0000	0.0000	9.3000e-004
Total	0.1432	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.7000e-004	8.7000e-004	0.0000	0.0000	9.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e

Category	MT/yr			
Mitigated	29.7619	0.2044	5.0200e-003	36.3692
Unmitigated	29.7619	0.2044	5.0200e-003	36.3692

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	6.23845 / 3.82357	29.7619	0.2044	5.0200e-003	36.3692
Total		29.7619	0.2044	5.0200e-003	36.3692

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	6.23845 / 3.82357	29.7619	0.2044	5.0200e-003	36.3692
Total		29.7619	0.2044	5.0200e-003	36.3692

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.6256	0.3916	0.0000	16.4147
Unmitigated	6.6256	0.3916	0.0000	16.4147

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	32.64	6.6256	0.3916	0.0000	16.4147
Total		6.6256	0.3916	0.0000	16.4147

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
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Land Use	tons	MT/yr			
General Office Building	32.64	6.6256	0.3916	0.0000	16.4147
Total		6.6256	0.3916	0.0000	16.4147

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Mobile	0.4770	2.2972	6.1739	0.0255	2.3417	0.0186	2.3602	0.6265	0.0173	0.6438		2,604.3825	2,604.3825	0.1177		2,607.3243
Total	1.2723	2.3954	6.2599	0.0261	2.3417	0.0261	2.3677	0.6265	0.0248	0.6512		2,722.1699	2,722.1699	0.1200	2.1600e-003	2,725.8122

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4770	2.2972	6.1739	0.0255	2.3417	0.0186	2.3602	0.6265	0.0173	0.6438		2,604.3825	2,604.3825	0.1177		2,607.3243
Unmitigated	0.4770	2.2972	6.1739	0.0255	2.3417	0.0186	2.3602	0.6265	0.0173	0.6438		2,604.3825	2,604.3825	0.1177		2,607.3243

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	341.87	86.35	36.86	843,365	843,365
Total	341.87	86.35	36.86	843,365	843,365

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0108	0.0982	0.0825	5.9000e-004		7.4600e-003	7.4600e-003		7.4600e-003	7.4600e-003		117.7798	117.7798	2.2600e-003	2.1600e-003	118.4797
NaturalGas Unmitigated	0.0108	0.0982	0.0825	5.9000e-004		7.4600e-003	7.4600e-003		7.4600e-003	7.4600e-003		117.7798	117.7798	2.2600e-003	2.1600e-003	118.4797

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1001.13	0.0108	0.0982	0.0825	5.9000e-004		7.4600e-003	7.4600e-003		7.4600e-003	7.4600e-003		117.7798	117.7798	2.2600e-003	2.1600e-003	118.4797
Total		0.0108	0.0982	0.0825	5.9000e-004		7.4600e-003	7.4600e-003		7.4600e-003	7.4600e-003		117.7798	117.7798	2.2600e-003	2.1600e-003	118.4797

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1.00113	0.0108	0.0982	0.0825	5.9000e-004		7.4600e-003	7.4600e-003		7.4600e-003	7.4600e-003		117.7798	117.7798	2.2600e-003	2.1600e-003	118.4797
Total		0.0108	0.0982	0.0825	5.9000e-004		7.4600e-003	7.4600e-003		7.4600e-003	7.4600e-003		117.7798	117.7798	2.2600e-003	2.1600e-003	118.4797

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7845	3.0000e-005	3.5800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6800e-003	7.6800e-003	2.0000e-005		8.1800e-003
Unmitigated	0.7845	3.0000e-005	3.5800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6800e-003	7.6800e-003	2.0000e-005		8.1800e-003

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	0.0892					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6950					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.5800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6800e-003	7.6800e-003	2.0000e-005		8.1800e-003
Total	0.7845	3.0000e-005	3.5800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6800e-003	7.6800e-003	2.0000e-005		8.1800e-003

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	0.0892					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6950					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.5800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6800e-003	7.6800e-003	2.0000e-005		8.1800e-003
Total	0.7845	3.0000e-005	3.5800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6800e-003	7.6800e-003	2.0000e-005		8.1800e-003