



APPENDIX A

CALEEMOD MODELING RESULTS



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Main St Medical Office Buildings Existing Condition - Orange County, Annual

Main St Medical Office Buildings Existing Condition Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	20.88	1000sqft	0.48	20,882.00	0
Parking Lot	26.00	Space	0.12	10,400.00	0
Motel	12.00	Room	0.54	23,522.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	513	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Main St Medical Office Buildings Existing Condition - Orange County, Annual

Project Characteristics - SCE CO2 Intensity Factor based on 2018 SCE Sustainability Report.

Land Use - Project site is 1.14 acres

Construction Phase - No construction activity

Off-road Equipment - no equipment

Trips and VMT - none

On-road Fugitive Dust - 0

Grading -

Vehicle Trips - Land Use Code (720) Medical Dental Office and (320) Motel, ITE Trip Generation Manual, 10th Edition

Energy Use -

Main St Medical Office Buildings Existing Condition - Orange County, Annual

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	22202	19801
tblAreaCoating	Area_Nonresidential_Interior	66607	59402
tblConstructionPhase	NumDays	2.00	0.00
tblLandUse	LandUseSquareFeet	20,880.00	20,882.00
tblLandUse	LotAcreage	0.23	0.12
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOnRoadDust	RoadSiltLoading	0.10	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	513
tblSolidWaste	SolidWasteGenerationRate	225.50	173.66
tblVehicleTrips	ST_TR	5.63	3.35
tblVehicleTrips	SU_TR	5.63	3.35
tblVehicleTrips	WD_TR	36.13	34.80
tblVehicleTrips	WD_TR	5.63	3.35
tblWater	IndoorWaterUseRate	2,620,033.62	2,017,727.04
tblWater	OutdoorWaterUseRate	499,054.02	384,328.96

2.0 Emissions Summary

Main St Medical Office Buildings Existing Condition - Orange County, Annual

2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][illegible]

Main St Medical Office Buildings Existing Condition - Orange County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	0.1797	1.0000e-005	7.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4600e-003	1.4600e-003	0.0000	0.0000	1.5600e-003
Energy	5.3700e-003	0.0489	0.0410	2.9000e-004		3.7100e-003	3.7100e-003		3.7100e-003	3.7100e-003	0.0000	171.4833	171.4833	7.7100e-003	2.3600e-003	172.3789
Mobile	0.1575	0.6636	1.9462	6.7000e-003	0.5777	6.8400e-003	0.5845	0.1547	6.4200e-003	0.1611	0.0000	616.7994	616.7994	0.0273	0.0000	617.4818
Waste						0.0000	0.0000		0.0000	0.0000	36.5851	0.0000	36.5851	2.1621	0.0000	90.6379
Water						0.0000	0.0000		0.0000	0.0000	0.7367	8.1168	8.8535	0.0761	1.8800e-003	11.3174
Total	0.3425	0.7125	1.9880	6.9900e-003	0.5777	0.0106	0.5882	0.1547	0.0101	0.1648	37.3218	796.4010	833.7228	2.2733	4.2400e-003	891.8176

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1797	1.0000e-005	7.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4600e-003	1.4600e-003	0.0000	0.0000	1.5600e-003
Energy	5.3700e-003	0.0489	0.0410	2.9000e-004		3.7100e-003	3.7100e-003		3.7100e-003	3.7100e-003	0.0000	171.4833	171.4833	7.7100e-003	2.3600e-003	172.3789
Mobile	0.1575	0.6636	1.9462	6.7000e-003	0.5777	6.8400e-003	0.5845	0.1547	6.4200e-003	0.1611	0.0000	616.7994	616.7994	0.0273	0.0000	617.4818
Waste						0.0000	0.0000		0.0000	0.0000	36.5851	0.0000	36.5851	2.1621	0.0000	90.6379
Water						0.0000	0.0000		0.0000	0.0000	0.7367	8.1168	8.8535	0.0761	1.8800e-003	11.3174
Total	0.3425	0.7125	1.9880	6.9900e-003	0.5777	0.0106	0.5882	0.1547	0.0101	0.1648	37.3218	796.4010	833.7228	2.2733	4.2400e-003	891.8176

	ROG	NOx	CO	SO2	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	Site Preparation	Site Preparation	2/1/2020	2/1/2020	5	0	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0**Acres of Paving: 0.12****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Main St Medical Office Buildings Existing Condition - Orange County, Annual

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Main St Medical Office Buildings Existing Condition - Orange County, Annual

3.2 Site Preparation - 2020**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Main St Medical Office Buildings Existing Condition - Orange County, Annual

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	0.1575	0.6636	1.9462	6.7000e-003	0.5777	6.8400e-003	0.5845	0.1547	6.4200e-003	0.1611	0.0000	616.7994	616.7994	0.0273	0.0000	617.4818
Unmitigated	0.1575	0.6636	1.9462	6.7000e-003	0.5777	6.8400e-003	0.5845	0.1547	6.4200e-003	0.1611	0.0000	616.7994	616.7994	0.0273	0.0000	617.4818

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	726.62	187.08	32.36	1,427,574	1,427,574
Motel	40.20	40.20	40.20	95,600	95,600
Parking Lot	0.00	0.00	0.00		
Total	766.82	227.28	72.56	1,523,174	1,523,174

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Motel	16.60	8.40	6.90	19.00	62.00	19.00	58	38	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.555968	0.043848	0.210359	0.116378	0.016765	0.005795	0.025008	0.016160	0.001677	0.001586	0.004867	0.000586	0.001002
Motel	0.555968	0.043848	0.210359	0.116378	0.016765	0.005795	0.025008	0.016160	0.001677	0.001586	0.004867	0.000586	0.001002
Parking Lot	0.555968	0.043848	0.210359	0.116378	0.016765	0.005795	0.025008	0.016160	0.001677	0.001586	0.004867	0.000586	0.001002

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	118.3061	118.3061	6.6900e-003	1.3800e-003	118.8857
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	118.3061	118.3061	6.6900e-003	1.3800e-003	118.8857
NaturalGas Mitigated	5.3700e-003	0.0489	0.0410	2.9000e-004		3.7100e-003	3.7100e-003		3.7100e-003	3.7100e-003	0.0000	53.1772	53.1772	1.0200e-003	9.7000e-004	53.4932
NaturalGas Unmitigated	5.3700e-003	0.0489	0.0410	2.9000e-004		3.7100e-003	3.7100e-003		3.7100e-003	3.7100e-003	0.0000	53.1772	53.1772	1.0200e-003	9.7000e-004	53.4932

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5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Medical Office Building	190861	1.0300e-003	9.3600e-003	7.8600e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1851	10.1851	2.0000e-004	1.9000e-004	10.2456
Motel	805642	4.3400e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003	0.0000	42.9921	42.9921	8.2000e-004	7.9000e-004	43.2476
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		5.3700e-003	0.0489	0.0410	3.0000e-004		3.7100e-003	3.7100e-003		3.7100e-003	3.7100e-003	0.0000	53.1772	53.1772	1.0200e-003	9.8000e-004	53.4932

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					
Medical Office Building	190861	1.0300e-003	9.3600e-003	7.8600e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1851	10.1851	2.0000e-004	1.9000e-004	10.2456
Motel	805642	4.3400e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003	0.0000	42.9921	42.9921	8.2000e-004	7.9000e-004	43.2476
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		5.3700e-003	0.0489	0.0410	3.0000e-004		3.7100e-003	3.7100e-003		3.7100e-003	3.7100e-003	0.0000	53.1772	53.1772	1.0200e-003	9.8000e-004	53.4932

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Medical Office Building	292139	67.9787	3.8400e-003	8.0000e-004	68.3117
Motel	212642	49.4804	2.8000e-003	5.8000e-004	49.7228
Parking Lot	3640	0.8470	5.0000e-005	1.0000e-005	0.8512
Total		118.3061	6.6900e-003	1.3900e-003	118.8856

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Medical Office Building	292139	67.9787	3.8400e-003	8.0000e-004	68.3117
Motel	212642	49.4804	2.8000e-003	5.8000e-004	49.7228
Parking Lot	3640	0.8470	5.0000e-005	1.0000e-005	0.8512
Total		118.3061	6.6900e-003	1.3900e-003	118.8856

6.0 Area Detail

Main St Medical Office Buildings Existing Condition - Orange County, Annual

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	0.1797	1.0000e-005	7.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4600e-003	1.4600e-003	0.0000	0.0000	1.5600e-003
Unmitigated	0.1797	1.0000e-005	7.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4600e-003	1.4600e-003	0.0000	0.0000	1.5600e-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	tons/yr										MT/yr					
Architectural Coating	0.0185					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1611					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	7.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4600e-003	1.4600e-003	0.0000	0.0000	1.5600e-003
Total	0.1797	1.0000e-005	7.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4600e-003	1.4600e-003	0.0000	0.0000	1.5600e-003

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0185					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1611					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	7.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4600e-003	1.4600e-003	0.0000	0.0000	1.5600e-003
Total	0.1797	1.0000e-005	7.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4600e-003	1.4600e-003	0.0000	0.0000	1.5600e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	8.8535	0.0761	1.8800e-003	11.3174
Unmitigated	8.8535	0.0761	1.8800e-003	11.3174

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Medical Office Building	2.01773 / 0.384329	7.7472	0.0662	1.6400e-003	9.8883
Motel	0.304401 / 0.0338224	1.1063	9.9800e-003	2.5000e-004	1.4290
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		8.8535	0.0761	1.8900e-003	11.3174

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Medical Office Building	2.01773 / 0.384329	7.7472	0.0662	1.6400e-003	9.8883
Motel	0.304401 / 0.0338224	1.1063	9.9800e-003	2.5000e-004	1.4290
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		8.8535	0.0761	1.8900e-003	11.3174

8.0 Waste Detail

8.1 Mitigation Measures Waste

Main St Medical Office Buildings Existing Condition - Orange County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	36.5851	2.1621	0.0000	90.6379
Unmitigated	36.5851	2.1621	0.0000	90.6379

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Medical Office Building	173.66	35.2514	2.0833	0.0000	87.3339
Motel	6.57	1.3337	0.0788	0.0000	3.3041
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		36.5851	2.1621	0.0000	90.6379

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Medical Office Building	173.66	35.2514	2.0833	0.0000	87.3339
Motel	6.57	1.3337	0.0788	0.0000	3.3041
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		36.5851	2.1621	0.0000	90.6379

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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Main St Medical Office Buildings Existing Condition - Orange County, Annual

11.0 Vegetation

Main Street Medical Office Building - Orange County, Winter

Main Street Medical Office Building

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	137.50	1000sqft	1.00	137,500.00	0
Enclosed Parking with Elevator	550.00	Space	0.14	211,733.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	513	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Main Street Medical Office Building - Orange County, Winter

Project Characteristics - SCE CO2 Intensity Factor based on 2018 SCE Sustainability Report.

Land Use - Project site is 1.14 acres with 4-story medical office bldg and 5 subterranean parking structure.

Construction Phase - Anticipated 30 months construction schedule

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - additional backhoes and excavators for deep excavation.

Off-road Equipment -

Demolition - Approximately 24,796 sf gross building to be demolished.

Grading - Export 100,000 excavated soil. Maximum depth of excavation would be approximately 63 feet.

Architectural Coating - Approximately 20% of the interior and exterior walls would be unpainted walls or glass. SCAQMD Rule 1113 requires 50 g/L for building envelope coating.

Vehicle Trips - ADT = approx. 4,785. Land Use Code (720) Medical Dental Office Building ITE Trip Generation Manual, 10th Edition

Area Coating - Approximately 20% of the interior and exterior walls would be unpainted walls or glass. SCAQMD Rule 1113.

Energy Use -

Construction Off-road Equipment Mitigation - All equipment with greater than 50 HP would utilized U.S. EPA Tier 2 Engine Standard. Fugitive dust emissions would be controlled by watering on-site at least 3 times daily.

Mobile Land Use Mitigation - The monthly parking key card provided to employees/staff or by taking a parking ticket. Free motorcycle parking and bicycle parking.

Mobile Commute Mitigation - A parking validation program would be available to lessees of space. Off-street drop-off/pickup area for taxis and rideshare vehicles

Area Mitigation - Rule 1113 requires 50 g/L paint.

Energy Mitigation - 2019 CALGreen codes would reduce building energy consumption by 30% or more.

Water Mitigation - Project would utilized low-flow water fixtures and install water-efficient irrigation system

Waste Mitigation - Consistent with the CalRecycle Waste Diversion and Recycling Mandate in reducing solid waste production by 75 percent.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	68,750.00	54,086.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	206,250.00	162,256.00
tblArchitecturalCoating	ConstArea_Parking	12,704.00	13,536.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00

Main Street Medical Office Building - Orange County, Winter

[illegible]

Main Street Medical Office Building - Orange County, Winter

tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	4.00	60.00
tblConstructionPhase	NumDays	200.00	500.00
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	NumDays	10.00	60.00
tblGrading	AcresOfGrading	22.50	1.50
tblGrading	MaterialExported	0.00	100,000.00
tblLandUse	LandUseSquareFeet	220,000.00	211,733.00
tblLandUse	LotAcreage	3.16	1.00
tblLandUse	LotAcreage	4.95	0.14
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	CO2IntensityFactor	702.44	513
tblSolidWaste	SolidWasteGenerationRate	1,485.00	1,460.27
tblTripsAndVMT	HaulingTripNumber	113.00	88.00
tblTripsAndVMT	VendorTripNumber	57.00	59.00
tblVehicleTrips	WD_TR	36.13	34.80
tblWater	IndoorWaterUseRate	17,253,573.91	16,966,223.48
tblWater	OutdoorWaterUseRate	3,286,395.03	3,231,661.62

2.0 Emissions Summary

Main Street Medical Office Building - Orange County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.5092	73.9192	30.5469	0.1834	8.5264	1.1151	9.6415	3.5515	1.0321	4.5836	0.0000	20,066.65 97	20,066.65 97	2.7141	0.0000	20,134.51 31
2022	2.3190	18.0128	17.7880	0.0489	1.8636	0.6087	2.4723	0.5027	0.5875	1.0902	0.0000	4,808.561 4	4,808.561 4	0.5005	0.0000	4,821.072 8
2023	10.3852	15.9025	17.3046	0.0479	1.8636	0.5288	2.3924	0.5027	0.5102	1.0129	0.0000	4,713.932 9	4,713.932 9	0.4798	0.0000	4,725.929 1
Maximum	10.3852	73.9192	30.5469	0.1834	8.5264	1.1151	9.6415	3.5515	1.0321	4.5836	0.0000	20,066.65 97	20,066.65 97	2.7141	0.0000	20,134.51 31

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	2.5343	77.3484	33.6636	0.1834	5.6401	0.8585	6.4987	2.0179	0.8511	2.8690	0.0000	20,066.65 97	20,066.65 97	2.7141	0.0000	20,134.51 31
2022	2.0224	22.1568	19.1371	0.0489	1.8636	0.6363	2.4999	0.5027	0.6351	1.1379	0.0000	4,808.561 4	4,808.561 4	0.5005	0.0000	4,821.072 8
2023	10.2906	20.7121	18.7154	0.0479	1.8636	0.6045	2.4681	0.5027	0.6036	1.1063	0.0000	4,713.932 9	4,713.932 9	0.4798	0.0000	4,725.929 1
Maximum	10.2906	77.3484	33.6636	0.1834	5.6401	0.8585	6.4987	2.0179	0.8511	2.8690	0.0000	20,066.65 97	20,066.65 97	2.7141	0.0000	20,134.51 31

Main Street Medical Office Building - Orange County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	8.43	-11.48	-8.95	0.00	23.55	6.80	20.95	33.65	1.88	23.53	0.00	0.00	0.00	0.00	0.00	0.00

Main Street Medical Office Building - Orange County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.9586	6.4000e-004	0.0702	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1505	0.1505	3.9000e-004		0.1603
Energy	0.0371	0.3376	0.2836	2.0300e-003		0.0257	0.0257		0.0257	0.0257		405.0766	405.0766	7.7600e-003	7.4300e-003	407.4837
Mobile	6.2634	24.9238	74.4238	0.2788	26.3288	0.2121	26.5409	7.0407	0.1973	7.2379		28,341.6783	28,341.6783	1.2099		28,371.9257
Total	9.2591	25.2620	74.7776	0.2808	26.3288	0.2380	26.5668	7.0407	0.2232	7.2638		28,746.9053	28,746.9053	1.2181	7.4300e-003	28,779.5698

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	2.9586	6.4000e-004	0.0702	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1505	0.1505	3.9000e-004		0.1603
Energy	0.0267	0.2424	0.2036	1.4500e-003		0.0184	0.0184		0.0184	0.0184		290.8662	290.8662	5.5700e-003	5.3300e-003	292.5947
Mobile	5.4049	19.5719	52.0084	0.1744	15.9611	0.1392	16.1003	4.2682	0.1294	4.3976		17,739.1152	17,739.1152	0.8230		17,759.6896
Total	8.3901	19.8150	52.2822	0.1759	15.9611	0.1579	16.1190	4.2682	0.1481	4.4163		18,030.1319	18,030.1319	0.8289	5.3300e-003	18,052.4447

Main Street Medical Office Building - Orange County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	9.39	21.56	30.08	37.37	39.38	33.67	39.33	39.38	33.65	39.20	0.00	37.28	37.28	31.95	28.26	37.27

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	2/1/2021	2/26/2021	5	20	
2	Site Preparation	Site Preparation	2/27/2021	3/2/2021	5	2	
3	Grading	Grading	3/3/2021	5/25/2021	5	60	
4	Building Construction	Building Construction	5/26/2021	4/25/2023	5	500	
5	Paving	Paving	4/26/2023	7/18/2023	5	60	
6	Architectural Coating	Architectural Coating	5/8/2023	7/28/2023	5	60	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.14

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 162,256; Non-Residential Outdoor: 54,086; Striped Parking Area: 13,536 (Architectural Coating – sqft)

OffRoad Equipment

Main Street Medical Office Building - Orange County, Winter

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

Trips and VMT

Main Street Medical Office Building - Orange County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	88.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	12,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	133.00	59.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 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					1.2204	0.0000	1.2204	0.1848	0.0000	0.1848			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.717 1	2,322.717 1	0.5940		2,337.565 8
Total	1.9930	19.6966	14.4925	0.0241	1.2204	1.0409	2.2613	0.1848	0.9715	1.1563		2,322.717 1	2,322.717 1	0.5940		2,337.565 8

Main Street Medical Office Building - Orange County, Winter

3.2 Demolition - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0325	1.1318	0.3226	3.2700e-003	0.0766	3.5800e-003	0.0802	0.0210	3.4200e-003	0.0244		365.1342	365.1342	0.0393		366.1166
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	0.0531	0.0312	0.3644	1.3000e-003	0.1453	9.4000e-004	0.1463	0.0385	8.7000e-004	0.0394		129.4582	129.4582	2.7700e-003		129.5275
Total	0.0856	1.1630	0.6869	4.5700e-003	0.2219	4.5200e-003	0.2264	0.0595	4.2900e-003	0.0638		494.5923	494.5923	0.0421		495.6441

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					0.4760	0.0000	0.4760	0.0721	0.0000	0.0721			0.0000			0.0000
Off-Road	0.8857	21.2053	15.4154	0.0241		0.7182	0.7182		0.7182	0.7182	0.0000	2,322.717 1	2,322.717 1	0.5940		2,337.565 8
Total	0.8857	21.2053	15.4154	0.0241	0.4760	0.7182	1.1941	0.0721	0.7182	0.7902	0.0000	2,322.717 1	2,322.717 1	0.5940		2,337.565 8

Main Street Medical Office Building - Orange County, Winter

3.2 Demolition - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0325	1.1318	0.3226	3.2700e-003	0.0766	3.5800e-003	0.0802	0.0210	3.4200e-003	0.0244		365.1342	365.1342	0.0393		366.1166
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	0.0531	0.0312	0.3644	1.3000e-003	0.1453	9.4000e-004	0.1463	0.0385	8.7000e-004	0.0394		129.4582	129.4582	2.7700e-003		129.5275
Total	0.0856	1.1630	0.6869	4.5700e-003	0.2219	4.5200e-003	0.2264	0.0595	4.2900e-003	0.0638		494.5923	494.5923	0.0421		495.6441

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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041		1,666.5174	1,666.5174	0.5390		1,679.9920
Total	1.5558	17.4203	7.5605	0.0172	5.7996	0.7654	6.5650	2.9537	0.7041	3.6578		1,666.5174	1,666.5174	0.5390		1,679.9920

Main Street Medical Office Building - Orange County, Winter

3.3 Site Preparation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0327	0.0192	0.2242	8.0000e-004	0.0894	5.8000e-004	0.0900	0.0237	5.3000e-004	0.0243		79.6666	79.6666	1.7100e-003		79.7092
Total	0.0327	0.0192	0.2242	8.0000e-004	0.0894	5.8000e-004	0.0900	0.0237	5.3000e-004	0.0243		79.6666	79.6666	1.7100e-003		79.7092

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					2.2618	0.0000	2.2618	1.1519	0.0000	1.1519			0.0000			0.0000
Off-Road	0.4908	14.9460	9.8221	0.0172		0.3747	0.3747		0.3747	0.3747	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920
Total	0.4908	14.9460	9.8221	0.0172	2.2618	0.3747	2.6365	1.1519	0.3747	1.5267	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920

Main Street Medical Office Building - Orange County, Winter

3.3 Site Preparation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0327	0.0192	0.2242	8.0000e-004	0.0894	5.8000e-004	0.0900	0.0237	5.3000e-004	0.0243		79.6666	79.6666	1.7100e-003		79.7092
Total	0.0327	0.0192	0.2242	8.0000e-004	0.0894	5.8000e-004	0.0900	0.0237	5.3000e-004	0.0243		79.6666	79.6666	1.7100e-003		79.7092

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					4.7316	0.0000	4.7316	2.5141	0.0000	2.5141			0.0000			0.0000
Off-Road	1.9106	20.2964	14.8528	0.0271		0.9446	0.9446		0.8690	0.8690		2,628.7363	2,628.7363	0.8502		2,649.9910
Total	1.9106	20.2964	14.8528	0.0271	4.7316	0.9446	5.6762	2.5141	0.8690	3.3831		2,628.7363	2,628.7363	0.8502		2,649.9910

Main Street Medical Office Building - Orange County, Winter

3.4 Grading - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5373	53.5868	15.2738	0.1548	3.6272	0.1694	3.7966	0.9929	0.1621	1.1550		17,288.5486	17,288.5486	1.8608		17,335.0673
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	0.0613	0.0360	0.4204	1.5000e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0000e-003	0.0455		149.3748	149.3748	3.2000e-003		149.4548
Total	1.5986	53.6228	15.6942	0.1563	3.7948	0.1705	3.9653	1.0374	0.1631	1.2005		17,437.9234	17,437.9234	1.8640		17,484.5221

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.8453	0.0000	1.8453	0.9805	0.0000	0.9805			0.0000			0.0000
Off-Road	0.9357	23.7256	17.9694	0.0271		0.6880	0.6880		0.6880	0.6880	0.0000	2,628.7363	2,628.7363	0.8502		2,649.9910
Total	0.9357	23.7256	17.9694	0.0271	1.8453	0.6880	2.5333	0.9805	0.6880	1.6685	0.0000	2,628.7363	2,628.7363	0.8502		2,649.9910

Main Street Medical Office Building - Orange County, Winter

3.4 Grading - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5373	53.5868	15.2738	0.1548	3.6272	0.1694	3.7966	0.9929	0.1621	1.1550		17,288.5486	17,288.5486	1.8608		17,335.0673
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	0.0613	0.0360	0.4204	1.5000e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0000e-003	0.0455		149.3748	149.3748	3.2000e-003		149.4548
Total	1.5986	53.6228	15.6942	0.1563	3.7948	0.1705	3.9653	1.0374	0.1631	1.2005		17,437.9234	17,437.9234	1.8640		17,484.5221

3.5 Building Construction - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

Main Street Medical Office Building - Orange County, Winter

3.5 Building Construction - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1653	5.5220	1.6468	0.0142	0.3770	0.0119	0.3889	0.1085	0.0114	0.1199		1,546.915 1	1,546.915 1	0.1304		1,550.176 0
Worker	0.5435	0.3192	3.7276	0.0133	1.4866	9.6200e-003	1.4963	0.3943	8.8600e-003	0.4031		1,324.456 8	1,324.456 8	0.0284		1,325.165 8
Total	0.7088	5.8412	5.3744	0.0275	1.8636	0.0216	1.8851	0.5027	0.0203	0.5230		2,871.371 9	2,871.371 9	0.1588		2,875.341 8

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	1.4298	16.7851	14.1445	0.0221		0.6472	0.6472		0.6472	0.6472	0.0000	2,001.220 0	2,001.220 0	0.3573		2,010.151 7
Total	1.4298	16.7851	14.1445	0.0221		0.6472	0.6472		0.6472	0.6472	0.0000	2,001.220 0	2,001.220 0	0.3573		2,010.151 7

Main Street Medical Office Building - Orange County, Winter

3.5 Building Construction - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1653	5.5220	1.6468	0.0142	0.3770	0.0119	0.3889	0.1085	0.0114	0.1199		1,546.915 1	1,546.915 1	0.1304		1,550.176 0
Worker	0.5435	0.3192	3.7276	0.0133	1.4866	9.6200e-003	1.4963	0.3943	8.8600e-003	0.4031		1,324.456 8	1,324.456 8	0.0284		1,325.165 8
Total	0.7088	5.8412	5.3744	0.0275	1.8636	0.0216	1.8851	0.5027	0.0203	0.5230		2,871.371 9	2,871.371 9	0.1588		2,875.341 8

3.5 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.542 9	2,001.542 9	0.3486		2,010.258 1
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.542 9	2,001.542 9	0.3486		2,010.258 1

Main Street Medical Office Building - Orange County, Winter

3.5 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1554	5.2206	1.5879	0.0140	0.3770	0.0104	0.3873	0.1085	9.9300e-003	0.1184		1,531.5768	1,531.5768	0.1261		1,534.7295
Worker	0.5150	0.2891	3.4737	0.0128	1.4866	9.4400e-003	1.4961	0.3943	8.6900e-003	0.4030		1,275.4418	1,275.4418	0.0257		1,276.0852
Total	0.6704	5.5097	5.0616	0.0268	1.8636	0.0198	1.8834	0.5027	0.0186	0.5214		2,807.0186	2,807.0186	0.1519		2,810.8147

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	1.3520	16.6471	14.0755	0.0221		0.6165	0.6165		0.6165	0.6165	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.3520	16.6471	14.0755	0.0221		0.6165	0.6165		0.6165	0.6165	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

Main Street Medical Office Building - Orange County, Winter

3.5 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1554	5.2206	1.5879	0.0140	0.3770	0.0104	0.3873	0.1085	9.9300e-003	0.1184		1,531.5768	1,531.5768	0.1261		1,534.7295
Worker	0.5150	0.2891	3.4737	0.0128	1.4866	9.4400e-003	1.4961	0.3943	8.6900e-003	0.4030		1,275.4418	1,275.4418	0.0257		1,276.0852
Total	0.6704	5.5097	5.0616	0.0268	1.8636	0.0198	1.8834	0.5027	0.0186	0.5214		2,807.0186	2,807.0186	0.1519		2,810.8147

3.5 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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858

Main Street Medical Office Building - Orange County, Winter

3.5 Building Construction - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1183	3.9297	1.4591	0.0136	0.3769	5.0500e-003	0.3820	0.1085	4.8300e-003	0.1133		1,485.6746	1,485.6746	0.1166		1,488.5897
Worker	0.4892	0.2624	3.2344	0.0123	1.4866	9.2700e-003	1.4959	0.3943	8.5400e-003	0.4028		1,226.4706	1,226.4706	0.0233		1,227.0537
Total	0.6075	4.1921	4.6936	0.0259	1.8636	0.0143	1.8779	0.5027	0.0134	0.5161		2,712.1452	2,712.1452	0.1399		2,715.6434

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	1.2852	16.5200	14.0218	0.0221		0.5902	0.5902		0.5902	0.5902	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.2852	16.5200	14.0218	0.0221		0.5902	0.5902		0.5902	0.5902	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858

Main Street Medical Office Building - Orange County, Winter

3.5 Building Construction - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1183	3.9297	1.4591	0.0136	0.3769	5.0500e-003	0.3820	0.1085	4.8300e-003	0.1133		1,485.674 6	1,485.674 6	0.1166		1,488.589 7
Worker	0.4892	0.2624	3.2344	0.0123	1.4866	9.2700e-003	1.4959	0.3943	8.5400e-003	0.4028		1,226.470 6	1,226.470 6	0.0233		1,227.053 7
Total	0.6075	4.1921	4.6936	0.0259	1.8636	0.0143	1.8779	0.5027	0.0134	0.5161		2,712.145 2	2,712.145 2	0.1399		2,715.643 4

3.6 Paving - 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	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.688 0	1,297.688 0	0.4114		1,307.972 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.688 0	1,297.688 0	0.4114		1,307.972 5

Main Street Medical Office Building - Orange County, Winter

3.6 Paving - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0478	0.0257	0.3162	1.2000e-003	0.1453	9.1000e-004	0.1462	0.0385	8.3000e-004	0.0394		119.8806	119.8806	2.2800e-003		119.9376
Total	0.0478	0.0257	0.3162	1.2000e-003	0.1453	9.1000e-004	0.1462	0.0385	8.3000e-004	0.0394		119.8806	119.8806	2.2800e-003		119.9376

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	0.5500	11.7418	9.8512	0.0136		0.4113	0.4113		0.4113	0.4113	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5500	11.7418	9.8512	0.0136		0.4113	0.4113		0.4113	0.4113	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725

Main Street Medical Office Building - Orange County, Winter

3.6 Paving - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0478	0.0257	0.3162	1.2000e-003	0.1453	9.1000e-004	0.1462	0.0385	8.3000e-004	0.0394		119.8806	119.8806	2.2800e-003		119.9376
Total	0.0478	0.0257	0.3162	1.2000e-003	0.1453	9.1000e-004	0.1462	0.0385	8.3000e-004	0.0394		119.8806	119.8806	2.2800e-003		119.9376

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	9.4019					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	9.5935	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Main Street Medical Office Building - Orange County, Winter

3.7 Architectural Coating - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0993	0.0533	0.6566	2.5000e-003	0.3018	1.8800e-003	0.3037	0.0800	1.7300e-003	0.0818		248.9828	248.9828	4.7300e-003		249.1011
Total	0.0993	0.0533	0.6566	2.5000e-003	0.3018	1.8800e-003	0.3037	0.0800	1.7300e-003	0.0818		248.9828	248.9828	4.7300e-003		249.1011

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	9.4019					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	9.5935	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

Main Street Medical Office Building - Orange County, Winter

3.7 Architectural Coating - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0993	0.0533	0.6566	2.5000e-003	0.3018	1.8800e-003	0.3037	0.0800	1.7300e-003	0.0818		248.9828	248.9828	4.7300e-003		249.1011
Total	0.0993	0.0533	0.6566	2.5000e-003	0.3018	1.8800e-003	0.3037	0.0800	1.7300e-003	0.0818		248.9828	248.9828	4.7300e-003		249.1011

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

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Limit Parking Supply

Expand Transit Network

Workplace Parking Charge

Main Street Medical Office Building - Orange County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.4049	19.5719	52.0084	0.1744	15.9611	0.1392	16.1003	4.2682	0.1294	4.3976		17,739.11 52	17,739.11 52	0.8230		17,759.68 96
Unmitigated	6.2634	24.9238	74.4238	0.2788	26.3288	0.2121	26.5409	7.0407	0.1973	7.2379		28,341.67 83	28,341.67 83	1.2099		28,371.92 57

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Medical Office Building	4,785.00	1,232.00	213.13	9,400,931	5,699,056
Total	4,785.00	1,232.00	213.13	9,400,931	5,699,056

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Medical Office Building	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

Main Street Medical Office Building - Orange County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0267	0.2424	0.2036	1.4500e-003		0.0184	0.0184		0.0184	0.0184		290.8662	290.8662	5.5700e-003	5.3300e-003	292.5947
NaturalGas Unmitigated	0.0371	0.3376	0.2836	2.0300e-003		0.0257	0.0257		0.0257	0.0257		405.0766	405.0766	7.7600e-003	7.4300e-003	407.4837

Main Street Medical Office Building - Orange County, Winter

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Medical Office Building	3443.15	0.0371	0.3376	0.2836	2.0300e-003		0.0257	0.0257		0.0257	0.0257		405.0766	405.0766	7.7600e-003	7.4300e-003	407.4837
Total		0.0371	0.3376	0.2836	2.0300e-003		0.0257	0.0257		0.0257	0.0257		405.0766	405.0766	7.7600e-003	7.4300e-003	407.4837

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Medical Office Building	2.47236	0.0267	0.2424	0.2036	1.4500e-003		0.0184	0.0184		0.0184	0.0184		290.8662	290.8662	5.5700e-003	5.3300e-003	292.5947
Total		0.0267	0.2424	0.2036	1.4500e-003		0.0184	0.0184		0.0184	0.0184		290.8662	290.8662	5.5700e-003	5.3300e-003	292.5947

6.0 Area Detail**6.1 Mitigation Measures Area**

Main Street Medical Office Building - Orange County, Winter

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.9586	6.4000e-004	0.0702	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1505	0.1505	3.9000e-004		0.1603
Unmitigated	2.9586	6.4000e-004	0.0702	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1505	0.1505	3.9000e-004		0.1603

Main Street Medical Office Building - Orange County, Winter

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.7975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.5000e-003	6.4000e-004	0.0702	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1505	0.1505	3.9000e-004		0.1603
Total	2.9586	6.4000e-004	0.0702	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1505	0.1505	3.9000e-004		0.1603

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	0.1546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.7975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.5000e-003	6.4000e-004	0.0702	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1505	0.1505	3.9000e-004		0.1603
Total	2.9586	6.4000e-004	0.0702	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1505	0.1505	3.9000e-004		0.1603

7.0 Water Detail

Main Street Medical Office Building - Orange County, Winter

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

9.0 Operational Offroad

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

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

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

Equipment Type	Number
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11.0 Vegetation

Main Street Medical Office Building - Orange County, Winter

Main Street Medical Office Building - Orange County, Summer

Main Street Medical Office Building

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	137.50	1000sqft	1.00	137,500.00	0
Enclosed Parking with Elevator	550.00	Space	0.14	211,733.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	513	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Main Street Medical Office Building - Orange County, Summer

Project Characteristics - SCE CO2 Intensity Factor based on 2018 SCE Sustainability Report.

Land Use - Project site is 1.14 acres with 4-story medical office bldg and 5 subterranean parking structure.

Construction Phase - Anticipated 30 months construction schedule

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - additional backhoes and excavators for deep excavation.

Off-road Equipment -

Demolition - Approximately 24,796 sf gross building to be demolished.

Grading - Export 100,000 excavated soil. Maximum depth of excavation would be approximately 63 feet.

Architectural Coating - Approximately 20% of the interior and exterior walls would be unpainted walls or glass. SCAQMD Rule 1113 requires 50 g/L for building envelope coating.

Vehicle Trips - ADT = approx. 4,785. Land Use Code (720) Medical Dental Office Building ITE Trip Generation Manual, 10th Edition

Area Coating - Approximately 20% of the interior and exterior walls would be unpainted walls or glass. SCAQMD Rule 1113.

Energy Use -

Construction Off-road Equipment Mitigation - All equipment with greater than 50 HP would utilized U.S. EPA Tier 2 Engine Standard. Fugitive dust emissions would be controlled by watering on-site at least 3 times daily.

Mobile Land Use Mitigation - The monthly parking key card provided to employees/staff or by taking a parking ticket. Free motorcycle parking and bicycle parking.

Mobile Commute Mitigation - A parking validation program would be available to lessees of space. Off-street drop-off/pickup area for taxis and rideshare vehicles

Area Mitigation - Rule 1113 requires 50 g/L paint.

Energy Mitigation - 2019 CALGreen codes would reduce building energy consumption by 30% or more.

Water Mitigation - Project would utilized low-flow water fixtures and install water-efficient irrigation system

Waste Mitigation - Consistent with the CalRecycle Waste Diversion and Recycling Mandate in reducing solid waste production by 75 percent.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	68,750.00	54,086.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	206,250.00	162,256.00
tblArchitecturalCoating	ConstArea_Parking	12,704.00	13,536.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00

Main Street Medical Office Building - Orange County, Summer

[illegible]

Main Street Medical Office Building - Orange County, Summer

tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	4.00	60.00
tblConstructionPhase	NumDays	200.00	500.00
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	NumDays	10.00	60.00
tblGrading	AcresOfGrading	22.50	1.50
tblGrading	MaterialExported	0.00	100,000.00
tblLandUse	LandUseSquareFeet	220,000.00	211,733.00
tblLandUse	LotAcreage	3.16	1.00
tblLandUse	LotAcreage	4.95	0.14
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	CO2IntensityFactor	702.44	513
tblSolidWaste	SolidWasteGenerationRate	1,485.00	1,460.27
tblTripsAndVMT	HaulingTripNumber	113.00	88.00
tblTripsAndVMT	VendorTripNumber	57.00	59.00
tblVehicleTrips	WD_TR	36.13	34.80
tblWater	IndoorWaterUseRate	17,253,573.91	16,966,223.48
tblWater	OutdoorWaterUseRate	3,286,395.03	3,231,661.62

2.0 Emissions Summary

Main Street Medical Office Building - Orange County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.4652	73.2906	29.8577	0.1859	8.5264	1.1121	9.6385	3.5515	1.0292	4.5807	0.0000	20,341.10 36	20,341.10 36	2.6736	0.0000	20,407.94 33
2022	2.2504	18.0028	17.9461	0.0500	1.8636	0.6083	2.4719	0.5027	0.5871	1.0898	0.0000	4,919.400 9	4,919.400 9	0.4963	0.0000	4,931.808 0
2023	10.3674	15.9016	17.4800	0.0490	1.8636	0.5285	2.3921	0.5027	0.5099	1.0126	0.0000	4,820.132 1	4,820.132 1	0.4766	0.0000	4,832.047 0
Maximum	10.3674	73.2906	29.8577	0.1859	8.5264	1.1121	9.6385	3.5515	1.0292	4.5807	0.0000	20,341.10 36	20,341.10 36	2.6736	0.0000	20,407.94 33

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	2.4903	76.7198	32.9744	0.1859	5.6401	0.8555	6.4957	2.0179	0.8482	2.8661	0.0000	20,341.10 36	20,341.10 36	2.6736	0.0000	20,407.94 33
2022	1.9537	22.1467	19.2952	0.0500	1.8636	0.6359	2.4995	0.5027	0.6348	1.1375	0.0000	4,919.400 9	4,919.400 9	0.4963	0.0000	4,931.808 0
2023	10.2727	20.7112	18.8907	0.0490	1.8636	0.6043	2.4678	0.5027	0.6033	1.1060	0.0000	4,820.132 1	4,820.132 1	0.4766	0.0000	4,832.047 0
Maximum	10.2727	76.7198	32.9744	0.1859	5.6401	0.8555	6.4957	2.0179	0.8482	2.8661	0.0000	20,341.10 36	20,341.10 36	2.6736	0.0000	20,407.94 33

Main Street Medical Office Building - Orange County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	8.49	-11.55	-9.00	0.00	23.55	6.81	20.96	33.65	1.88	23.55	0.00	0.00	0.00	0.00	0.00	0.00

Main Street Medical Office Building - Orange County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.9586	6.4000e-004	0.0702	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1505	0.1505	3.9000e-004		0.1603
Energy	0.0371	0.3376	0.2836	2.0300e-003		0.0257	0.0257		0.0257	0.0257		405.0766	405.0766	7.7600e-003	7.4300e-003	407.4837
Mobile	6.3713	24.3464	77.2041	0.2919	26.3288	0.2110	26.5398	7.0407	0.1962	7.2369		29,659.6285	29,659.6285	1.2086		29,689.8422
Total	9.3670	24.6846	77.5578	0.2939	26.3288	0.2369	26.5657	7.0407	0.2221	7.2628		30,064.8555	30,064.8555	1.2167	7.4300e-003	30,097.4863

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	2.9586	6.4000e-004	0.0702	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1505	0.1505	3.9000e-004		0.1603
Energy	0.0267	0.2424	0.2036	1.4500e-003		0.0184	0.0184		0.0184	0.0184		290.8662	290.8662	5.5700e-003	5.3300e-003	292.5947
Mobile	5.4952	19.2889	52.6528	0.1827	15.9611	0.1381	16.0992	4.2682	0.1284	4.3966		18,581.5371	18,581.5371	0.8123		18,601.8455
Total	8.4804	19.5319	52.9265	0.1842	15.9611	0.1568	16.1179	4.2682	0.1470	4.4152		18,872.5538	18,872.5538	0.8183	5.3300e-003	18,894.6005

Main Street Medical Office Building - Orange County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	9.46	20.87	31.76	37.33	39.38	33.83	39.33	39.38	33.81	39.21	0.00	37.23	37.23	32.74	28.26	37.22

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	2/1/2021	2/26/2021	5	20	
2	Site Preparation	Site Preparation	2/27/2021	3/2/2021	5	2	
3	Grading	Grading	3/3/2021	5/25/2021	5	60	
4	Building Construction	Building Construction	5/26/2021	4/25/2023	5	500	
5	Paving	Paving	4/26/2023	7/18/2023	5	60	
6	Architectural Coating	Architectural Coating	5/8/2023	7/28/2023	5	60	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.14

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 162,256; Non-Residential Outdoor: 54,086; Striped Parking Area: 13,536 (Architectural Coating – sqft)

OffRoad Equipment

Main Street Medical Office Building - Orange County, Summer

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

Trips and VMT

Main Street Medical Office Building - Orange County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	88.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	12,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	133.00	59.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 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					1.2204	0.0000	1.2204	0.1848	0.0000	0.1848			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.717 1	2,322.717 1	0.5940		2,337.565 8
Total	1.9930	19.6966	14.4925	0.0241	1.2204	1.0409	2.2613	0.1848	0.9715	1.1563		2,322.717 1	2,322.717 1	0.5940		2,337.565 8

Main Street Medical Office Building - Orange County, Summer

3.2 Demolition - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0317	1.1186	0.3073	3.3200e-003	0.0766	3.5100e-003	0.0801	0.0210	3.3600e-003	0.0243		370.7519	370.7519	0.0384		371.7128
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	0.0469	0.0284	0.3949	1.3700e-003	0.1453	9.4000e-004	0.1463	0.0385	8.7000e-004	0.0394		136.7852	136.7852	2.9300e-003		136.8585
Total	0.0786	1.1469	0.7021	4.6900e-003	0.2219	4.4500e-003	0.2264	0.0595	4.2300e-003	0.0637		507.5371	507.5371	0.0414		508.5713

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					0.4760	0.0000	0.4760	0.0721	0.0000	0.0721			0.0000			0.0000
Off-Road	0.8857	21.2053	15.4154	0.0241		0.7182	0.7182		0.7182	0.7182	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
Total	0.8857	21.2053	15.4154	0.0241	0.4760	0.7182	1.1941	0.0721	0.7182	0.7902	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658

Main Street Medical Office Building - Orange County, Summer

3.2 Demolition - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0317	1.1186	0.3073	3.3200e-003	0.0766	3.5100e-003	0.0801	0.0210	3.3600e-003	0.0243		370.7519	370.7519	0.0384		371.7128
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	0.0469	0.0284	0.3949	1.3700e-003	0.1453	9.4000e-004	0.1463	0.0385	8.7000e-004	0.0394		136.7852	136.7852	2.9300e-003		136.8585
Total	0.0786	1.1469	0.7021	4.6900e-003	0.2219	4.4500e-003	0.2264	0.0595	4.2300e-003	0.0637		507.5371	507.5371	0.0414		508.5713

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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041		1,666.5174	1,666.5174	0.5390		1,679.9920
Total	1.5558	17.4203	7.5605	0.0172	5.7996	0.7654	6.5650	2.9537	0.7041	3.6578		1,666.5174	1,666.5174	0.5390		1,679.9920

Main Street Medical Office Building - Orange County, Summer

3.3 Site Preparation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0289	0.0175	0.2430	8.4000e-004	0.0894	5.8000e-004	0.0900	0.0237	5.3000e-004	0.0243		84.1755	84.1755	1.8000e-003		84.2206
Total	0.0289	0.0175	0.2430	8.4000e-004	0.0894	5.8000e-004	0.0900	0.0237	5.3000e-004	0.0243		84.1755	84.1755	1.8000e-003		84.2206

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					2.2618	0.0000	2.2618	1.1519	0.0000	1.1519			0.0000			0.0000
Off-Road	0.4908	14.9460	9.8221	0.0172		0.3747	0.3747		0.3747	0.3747	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920
Total	0.4908	14.9460	9.8221	0.0172	2.2618	0.3747	2.6365	1.1519	0.3747	1.5267	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920

Main Street Medical Office Building - Orange County, Summer

3.3 Site Preparation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0289	0.0175	0.2430	8.4000e-004	0.0894	5.8000e-004	0.0900	0.0237	5.3000e-004	0.0243		84.1755	84.1755	1.8000e-003		84.2206
Total	0.0289	0.0175	0.2430	8.4000e-004	0.0894	5.8000e-004	0.0900	0.0237	5.3000e-004	0.0243		84.1755	84.1755	1.8000e-003		84.2206

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					4.7316	0.0000	4.7316	2.5141	0.0000	2.5141			0.0000			0.0000
Off-Road	1.9106	20.2964	14.8528	0.0271		0.9446	0.9446		0.8690	0.8690		2,628.7363	2,628.7363	0.8502		2,649.9910
Total	1.9106	20.2964	14.8528	0.0271	4.7316	0.9446	5.6762	2.5141	0.8690	3.3831		2,628.7363	2,628.7363	0.8502		2,649.9910

Main Street Medical Office Building - Orange County, Summer

3.4 Grading - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5004	52.9614	14.5493	0.1572	3.6272	0.1664	3.7936	0.9929	0.1592	1.1521		17,554.5381	17,554.5381	1.8200		17,600.0387
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	0.0541	0.0328	0.4556	1.5800e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0000e-003	0.0455		157.8291	157.8291	3.3800e-003		157.9136
Total	1.5546	52.9942	15.0049	0.1587	3.7948	0.1675	3.9623	1.0374	0.1602	1.1976		17,712.3673	17,712.3673	1.8234		17,757.9524

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.8453	0.0000	1.8453	0.9805	0.0000	0.9805			0.0000			0.0000
Off-Road	0.9357	23.7256	17.9694	0.0271		0.6880	0.6880		0.6880	0.6880	0.0000	2,628.7363	2,628.7363	0.8502		2,649.9910
Total	0.9357	23.7256	17.9694	0.0271	1.8453	0.6880	2.5333	0.9805	0.6880	1.6685	0.0000	2,628.7363	2,628.7363	0.8502		2,649.9910

Main Street Medical Office Building - Orange County, Summer

3.4 Grading - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5004	52.9614	14.5493	0.1572	3.6272	0.1664	3.7936	0.9929	0.1592	1.1521		17,554.5381	17,554.5381	1.8200		17,600.0387
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	0.0541	0.0328	0.4556	1.5800e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0000e-003	0.0455		157.8291	157.8291	3.3800e-003		157.9136
Total	1.5546	52.9942	15.0049	0.1587	3.7948	0.1675	3.9623	1.0374	0.1602	1.1976		17,712.3673	17,712.3673	1.8234		17,757.9524

3.5 Building Construction - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

Main Street Medical Office Building - Orange County, Summer

3.5 Building Construction - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1574	5.5350	1.5011	0.0146	0.3770	0.0115	0.3885	0.1085	0.0110	0.1195		1,585.8758	1,585.8758	0.1244		1,588.9846
Worker	0.4801	0.2905	4.0396	0.0140	1.4866	9.6200e-003	1.4963	0.3943	8.8600e-003	0.4031		1,399.4182	1,399.4182	0.0300		1,400.1674
Total	0.6375	5.8255	5.5407	0.0286	1.8636	0.0211	1.8847	0.5027	0.0199	0.5226		2,985.2940	2,985.2940	0.1543		2,989.1520

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	1.4298	16.7851	14.1445	0.0221		0.6472	0.6472		0.6472	0.6472	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.4298	16.7851	14.1445	0.0221		0.6472	0.6472		0.6472	0.6472	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

Main Street Medical Office Building - Orange County, Summer

3.5 Building Construction - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1574	5.5350	1.5011	0.0146	0.3770	0.0115	0.3885	0.1085	0.0110	0.1195		1,585.8758	1,585.8758	0.1244		1,588.9846
Worker	0.4801	0.2905	4.0396	0.0140	1.4866	9.6200e-003	1.4963	0.3943	8.8600e-003	0.4031		1,399.4182	1,399.4182	0.0300		1,400.1674
Total	0.6375	5.8255	5.5407	0.0286	1.8636	0.0211	1.8847	0.5027	0.0199	0.5226		2,985.2940	2,985.2940	0.1543		2,989.1520

3.5 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

Main Street Medical Office Building - Orange County, Summer

3.5 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1480	5.2365	1.4495	0.0144	0.3770	0.0100	0.3870	0.1085	9.5700e-003	0.1180		1,570.3004	1,570.3004	0.1205		1,573.3119
Worker	0.4537	0.2632	3.7703	0.0135	1.4866	9.4400e-003	1.4961	0.3943	8.6900e-003	0.4030		1,347.5576	1,347.5576	0.0272		1,348.2381
Total	0.6017	5.4997	5.2197	0.0279	1.8636	0.0194	1.8830	0.5027	0.0183	0.5210		2,917.8580	2,917.8580	0.1477		2,921.5500

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	1.3520	16.6471	14.0755	0.0221		0.6165	0.6165		0.6165	0.6165	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.3520	16.6471	14.0755	0.0221		0.6165	0.6165		0.6165	0.6165	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

Main Street Medical Office Building - Orange County, Summer

3.5 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1480	5.2365	1.4495	0.0144	0.3770	0.0100	0.3870	0.1085	9.5700e-003	0.1180		1,570.3004	1,570.3004	0.1205		1,573.3119
Worker	0.4537	0.2632	3.7703	0.0135	1.4866	9.4400e-003	1.4961	0.3943	8.6900e-003	0.4030		1,347.5576	1,347.5576	0.0272		1,348.2381
Total	0.6017	5.4997	5.2197	0.0279	1.8636	0.0194	1.8830	0.5027	0.0183	0.5210		2,917.8580	2,917.8580	0.1477		2,921.5500

3.5 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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858

Main Street Medical Office Building - Orange County, Summer

3.5 Building Construction - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1127	3.9523	1.3528	0.0139	0.3769	4.7600e-003	0.3817	0.1085	4.5500e-003	0.1130		1,522.5927	1,522.5927	0.1120		1,525.3923
Worker	0.4296	0.2389	3.5161	0.0130	1.4866	9.2700e-003	1.4959	0.3943	8.5400e-003	0.4028		1,295.7518	1,295.7518	0.0247		1,296.3690
Total	0.5423	4.1912	4.8689	0.0269	1.8636	0.0140	1.8776	0.5027	0.0131	0.5158		2,818.3445	2,818.3445	0.1367		2,821.7613

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	1.2852	16.5200	14.0218	0.0221		0.5902	0.5902		0.5902	0.5902	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.2852	16.5200	14.0218	0.0221		0.5902	0.5902		0.5902	0.5902	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858

Main Street Medical Office Building - Orange County, Summer

3.5 Building Construction - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1127	3.9523	1.3528	0.0139	0.3769	4.7600e-003	0.3817	0.1085	4.5500e-003	0.1130		1,522.5927	1,522.5927	0.1120		1,525.3923
Worker	0.4296	0.2389	3.5161	0.0130	1.4866	9.2700e-003	1.4959	0.3943	8.5400e-003	0.4028		1,295.7518	1,295.7518	0.0247		1,296.3690
Total	0.5423	4.1912	4.8689	0.0269	1.8636	0.0140	1.8776	0.5027	0.0131	0.5158		2,818.3445	2,818.3445	0.1367		2,821.7613

3.6 Paving - 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	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.6880	1,297.6880	0.4114		1,307.9725

Main Street Medical Office Building - Orange County, Summer

3.6 Paving - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0420	0.0234	0.3437	1.2700e-003	0.1453	9.1000e-004	0.1462	0.0385	8.3000e-004	0.0394		126.6524	126.6524	2.4100e-003		126.7128
Total	0.0420	0.0234	0.3437	1.2700e-003	0.1453	9.1000e-004	0.1462	0.0385	8.3000e-004	0.0394		126.6524	126.6524	2.4100e-003		126.7128

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	0.5500	11.7418	9.8512	0.0136		0.4113	0.4113		0.4113	0.4113	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5500	11.7418	9.8512	0.0136		0.4113	0.4113		0.4113	0.4113	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725

Main Street Medical Office Building - Orange County, Summer

3.6 Paving - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0420	0.0234	0.3437	1.2700e-003	0.1453	9.1000e-004	0.1462	0.0385	8.3000e-004	0.0394		126.6524	126.6524	2.4100e-003		126.7128
Total	0.0420	0.0234	0.3437	1.2700e-003	0.1453	9.1000e-004	0.1462	0.0385	8.3000e-004	0.0394		126.6524	126.6524	2.4100e-003		126.7128

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	9.4019					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	9.5935	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Main Street Medical Office Building - Orange County, Summer

3.7 Architectural Coating - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0872	0.0485	0.7138	2.6400e-003	0.3018	1.8800e-003	0.3037	0.0800	1.7300e-003	0.0818		263.0474	263.0474	5.0100e-003		263.1727
Total	0.0872	0.0485	0.7138	2.6400e-003	0.3018	1.8800e-003	0.3037	0.0800	1.7300e-003	0.0818		263.0474	263.0474	5.0100e-003		263.1727

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	9.4019					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	9.5935	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

Main Street Medical Office Building - Orange County, Summer

3.7 Architectural Coating - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0872	0.0485	0.7138	2.6400e-003	0.3018	1.8800e-003	0.3037	0.0800	1.7300e-003	0.0818		263.0474	263.0474	5.0100e-003		263.1727
Total	0.0872	0.0485	0.7138	2.6400e-003	0.3018	1.8800e-003	0.3037	0.0800	1.7300e-003	0.0818		263.0474	263.0474	5.0100e-003		263.1727

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

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Limit Parking Supply

Expand Transit Network

Workplace Parking Charge

Main Street Medical Office Building - Orange County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.4952	19.2889	52.6528	0.1827	15.9611	0.1381	16.0992	4.2682	0.1284	4.3966		18,581.53 71	18,581.53 71	0.8123		18,601.84 55
Unmitigated	6.3713	24.3464	77.2041	0.2919	26.3288	0.2110	26.5398	7.0407	0.1962	7.2369		29,659.62 85	29,659.62 85	1.2086		29,689.84 22

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Medical Office Building	4,785.00	1,232.00	213.13	9,400,931	5,699,056
Total	4,785.00	1,232.00	213.13	9,400,931	5,699,056

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Medical Office Building	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

Main Street Medical Office Building - Orange County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0267	0.2424	0.2036	1.4500e-003		0.0184	0.0184		0.0184	0.0184		290.8662	290.8662	5.5700e-003	5.3300e-003	292.5947
NaturalGas Unmitigated	0.0371	0.3376	0.2836	2.0300e-003		0.0257	0.0257		0.0257	0.0257		405.0766	405.0766	7.7600e-003	7.4300e-003	407.4837

Main Street Medical Office Building - Orange County, Summer

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Medical Office Building	3443.15	0.0371	0.3376	0.2836	2.0300e-003		0.0257	0.0257		0.0257	0.0257		405.0766	405.0766	7.7600e-003	7.4300e-003	407.4837
Total		0.0371	0.3376	0.2836	2.0300e-003		0.0257	0.0257		0.0257	0.0257		405.0766	405.0766	7.7600e-003	7.4300e-003	407.4837

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Medical Office Building	2.47236	0.0267	0.2424	0.2036	1.4500e-003		0.0184	0.0184		0.0184	0.0184		290.8662	290.8662	5.5700e-003	5.3300e-003	292.5947
Total		0.0267	0.2424	0.2036	1.4500e-003		0.0184	0.0184		0.0184	0.0184		290.8662	290.8662	5.5700e-003	5.3300e-003	292.5947

6.0 Area Detail**6.1 Mitigation Measures Area**

Main Street Medical Office Building - Orange County, Summer

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.9586	6.4000e-004	0.0702	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1505	0.1505	3.9000e-004		0.1603
Unmitigated	2.9586	6.4000e-004	0.0702	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1505	0.1505	3.9000e-004		0.1603

Main Street Medical Office Building - Orange County, Summer

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.7975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.5000e-003	6.4000e-004	0.0702	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1505	0.1505	3.9000e-004		0.1603
Total	2.9586	6.4000e-004	0.0702	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1505	0.1505	3.9000e-004		0.1603

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	0.1546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.7975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.5000e-003	6.4000e-004	0.0702	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1505	0.1505	3.9000e-004		0.1603
Total	2.9586	6.4000e-004	0.0702	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1505	0.1505	3.9000e-004		0.1603

7.0 Water Detail

Main Street Medical Office Building - Orange County, Summer

7.1 Mitigation Measures Water

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

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

Boilers

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

Equipment Type	Number
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11.0 Vegetation

Main Street Medical Office Building - Orange County, Summer

Main Street Medical Office Building - Orange County, Annual

Main Street Medical Office Building

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	137.50	1000sqft	1.00	137,500.00	0
Enclosed Parking with Elevator	550.00	Space	0.14	211,733.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	513	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Main Street Medical Office Building - Orange County, Annual

Project Characteristics - SCE CO2 Intensity Factor based on 2018 SCE Sustainability Report.

Land Use - Project site is 1.14 acres with 4-story medical office bldg and 5 subterranean parking structure.

Construction Phase - Anticipated 30 months construction schedule

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - additional backhoes and excavators for deep excavation.

Off-road Equipment -

Demolition - Approximately 24,796 sf gross building to be demolished.

Grading - Export 100,000 excavated soil. Maximum depth of excavation would be approximately 63 feet.

Architectural Coating - Approximately 20% of the interior and exterior walls would be unpainted walls or glass. SCAQMD Rule 1113 requires 50 g/L for building envelope coating.

Vehicle Trips - ADT = approx. 4,785. Land Use Code (720) Medical Dental Office Building ITE Trip Generation Manual, 10th Edition

Area Coating - Approximately 20% of the interior and exterior walls would be unpainted walls or glass. SCAQMD Rule 1113.

Energy Use -

Construction Off-road Equipment Mitigation - All equipment with greater than 50 HP would utilized U.S. EPA Tier 2 Engine Standard. Fugitive dust emissions would be controlled by watering on-site at least 3 times daily.

Mobile Land Use Mitigation - The monthly parking key card provided to employees/staff or by taking a parking ticket. Free motorcycle parking and bicycle parking.

Mobile Commute Mitigation - A parking validation program would be available to lessees of space. Off-street drop-off/pickup area for taxis and rideshare vehicles

Area Mitigation - Rule 1113 requires 50 g/L paint.

Energy Mitigation - 2019 CALGreen codes would reduce building energy consumption by 30% or more.

Water Mitigation - Project would utilized low-flow water fixtures and install water-efficient irrigation system

Waste Mitigation - Consistent with the CalRecycle Waste Diversion and Recycling Mandate in reducing solid waste production by 75 percent.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	68,750.00	54,086.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	206,250.00	162,256.00
tblArchitecturalCoating	ConstArea_Parking	12,704.00	13,536.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00

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[illegible]

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tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	4.00	60.00
tblConstructionPhase	NumDays	200.00	500.00
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	NumDays	10.00	60.00
tblGrading	AcresOfGrading	22.50	1.50
tblGrading	MaterialExported	0.00	100,000.00
tblLandUse	LandUseSquareFeet	220,000.00	211,733.00
tblLandUse	LotAcreage	3.16	1.00
tblLandUse	LotAcreage	4.95	0.14
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	CO2IntensityFactor	702.44	513
tblSolidWaste	SolidWasteGenerationRate	1,485.00	1,460.27
tblTripsAndVMT	HaulingTripNumber	113.00	88.00
tblTripsAndVMT	VendorTripNumber	57.00	59.00
tblVehicleTrips	WD_TR	36.13	34.80
tblWater	IndoorWaterUseRate	17,253,573.91	16,966,223.48
tblWater	OutdoorWaterUseRate	3,286,395.03	3,231,661.62

2.0 Emissions Summary

Main Street Medical Office Building - Orange County, Annual

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	0.3212	4.0218	2.5095	9.7900e-003	0.4190	0.1004	0.5193	0.1506	0.0952	0.2458	0.0000	929.8515	929.8515	0.1163	0.0000	932.7582
2022	0.2939	2.3546	2.3151	6.4100e-003	0.2381	0.0791	0.3172	0.0643	0.0763	0.1407	0.0000	572.0348	572.0348	0.0587	0.0000	573.5022
2023	0.3962	0.8833	1.0592	2.5900e-003	0.0883	0.0331	0.1214	0.0238	0.0317	0.0554	0.0000	229.9927	229.9927	0.0296	0.0000	230.7331
Maximum	0.3962	4.0218	2.5095	9.7900e-003	0.4190	0.1004	0.5193	0.1506	0.0952	0.2458	0.0000	929.8515	929.8515	0.1163	0.0000	932.7582

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	0.2495	4.3861	2.7129	9.7900e-003	0.3214	0.0861	0.4075	0.1017	0.0858	0.1875	0.0000	929.8512	929.8512	0.1163	0.0000	932.7580
2022	0.2554	2.8933	2.4905	6.4100e-003	0.2381	0.0827	0.3208	0.0643	0.0825	0.1469	0.0000	572.0346	572.0346	0.0587	0.0000	573.5020
2023	0.3836	1.2457	1.1485	2.5900e-003	0.0883	0.0393	0.1276	0.0238	0.0393	0.0631	0.0000	229.9926	229.9926	0.0296	0.0000	230.7329
Maximum	0.3836	4.3861	2.7129	9.7900e-003	0.3214	0.0861	0.4075	0.1017	0.0858	0.1875	0.0000	929.8512	929.8512	0.1163	0.0000	932.7580

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	12.14	-17.43	-7.95	0.00	13.09	2.11	10.65	20.50	-2.20	10.07	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	2-1-2021	4-30-2021	1.8645	1.9149
2	5-1-2021	7-31-2021	1.2096	1.2977
3	8-1-2021	10-31-2021	0.7209	0.8118
4	11-1-2021	1-31-2022	0.7044	0.8072
5	2-1-2022	4-30-2022	0.6454	0.7677
6	5-1-2022	7-31-2022	0.6655	0.7919
7	8-1-2022	10-31-2022	0.6663	0.7927
8	11-1-2022	1-31-2023	0.6426	0.7770
9	2-1-2023	4-30-2023	0.5528	0.6996
10	5-1-2023	7-31-2023	0.5191	0.6717
		Highest	1.8645	1.9149

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2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5396	8.0000e-005	8.7700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0171	0.0171	4.0000e-005	0.0000	0.0182
Energy	6.7800e-003	0.0616	0.0518	3.7000e-004		4.6800e-003	4.6800e-003		4.6800e-003	4.6800e-003	0.0000	803.3938	803.3938	0.0429	9.8400e-003	807.3993
Mobile	0.8358	3.4926	10.3760	0.0389	3.5656	0.0291	3.5948	0.9549	0.0271	0.9820	0.0000	3,588.7867	3,588.7867	0.1506	0.0000	3,592.5521
Waste						0.0000	0.0000		0.0000	0.0000	296.4216	0.0000	296.4216	17.5180	0.0000	734.3720
Water						0.0000	0.0000		0.0000	0.0000	5.3826	59.7604	65.1430	0.5562	0.0138	83.1469
Total	1.3822	3.5543	10.4365	0.0393	3.5656	0.0338	3.5995	0.9549	0.0318	0.9867	301.8042	4,451.9579	4,753.7621	18.2678	0.0236	5,217.4885

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5396	8.0000e-005	8.7700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0171	0.0171	4.0000e-005	0.0000	0.0182
Energy	4.8700e-003	0.0442	0.0372	2.7000e-004		3.3600e-003	3.3600e-003		3.3600e-003	3.3600e-003	0.0000	681.3356	681.3356	0.0367	8.2900e-003	684.7235
Mobile	0.7166	2.7394	7.2072	0.0244	2.1616	0.0191	2.1807	0.5789	0.0177	0.5966	0.0000	2,248.4193	2,248.4193	0.1020	0.0000	2,250.9687
Waste						0.0000	0.0000		0.0000	0.0000	74.1054	0.0000	74.1054	4.3795	0.0000	183.5930
Water						0.0000	0.0000		0.0000	0.0000	4.3061	48.9696	53.2757	0.4450	0.0110	67.6845
Total	1.2611	2.7837	7.2531	0.0246	2.1616	0.0225	2.1840	0.5789	0.0211	0.6000	78.4115	2,978.7416	3,057.1530	4.9633	0.0193	3,186.9879

	ROG	NOx	CO	SO2	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	8.76	21.68	30.50	37.29	39.38	33.58	39.32	39.38	33.56	39.19	74.02	33.09	35.69	72.83	18.14	38.92

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2021	2/26/2021	5	20	
2	Site Preparation	Site Preparation	2/27/2021	3/2/2021	5	2	
3	Grading	Grading	3/3/2021	5/25/2021	5	60	
4	Building Construction	Building Construction	5/26/2021	4/25/2023	5	500	
5	Paving	Paving	4/26/2023	7/18/2023	5	60	
6	Architectural Coating	Architectural Coating	5/8/2023	7/28/2023	5	60	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.14

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 162,256; Non-Residential Outdoor: 54,086; Striped Parking Area: 13,536
(Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	88.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	12,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	133.00	59.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 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					0.0122	0.0000	0.0122	1.8500e-003	0.0000	1.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1970	0.1449	2.4000e-004		0.0104	0.0104		9.7100e-003	9.7100e-003	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060
Total	0.0199	0.1970	0.1449	2.4000e-004	0.0122	0.0104	0.0226	1.8500e-003	9.7100e-003	0.0116	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060

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3.2 Demolition - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2000e-004	0.0115	3.1400e-003	3.0000e-005	7.5000e-004	4.0000e-005	7.9000e-004	2.1000e-004	3.0000e-005	2.4000e-004	0.0000	3.3420	3.3420	3.5000e-004	0.0000	3.3508
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	4.8000e-004	3.2000e-004	3.7300e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1924	1.1924	3.0000e-005	0.0000	1.1930
Total	8.0000e-004	0.0119	6.8700e-003	4.0000e-005	2.1800e-003	5.0000e-005	2.2300e-003	5.9000e-004	4.0000e-005	6.3000e-004	0.0000	4.5344	4.5344	3.8000e-004	0.0000	4.5438

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					4.7600e-003	0.0000	4.7600e-003	7.2000e-004	0.0000	7.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.8600e-003	0.2121	0.1542	2.4000e-004		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060
Total	8.8600e-003	0.2121	0.1542	2.4000e-004	4.7600e-003	7.1800e-003	0.0119	7.2000e-004	7.1800e-003	7.9000e-003	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060

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3.2 Demolition - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2000e-004	0.0115	3.1400e-003	3.0000e-005	7.5000e-004	4.0000e-005	7.9000e-004	2.1000e-004	3.0000e-005	2.4000e-004	0.0000	3.3420	3.3420	3.5000e-004	0.0000	3.3508
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	4.8000e-004	3.2000e-004	3.7300e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1924	1.1924	3.0000e-005	0.0000	1.1930
Total	8.0000e-004	0.0119	6.8700e-003	4.0000e-005	2.1800e-003	5.0000e-005	2.2300e-003	5.9000e-004	4.0000e-005	6.3000e-004	0.0000	4.5344	4.5344	3.8000e-004	0.0000	4.5438

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					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5600e-003	0.0174	7.5600e-003	2.0000e-005		7.7000e-004	7.7000e-004		7.0000e-004	7.0000e-004	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241
Total	1.5600e-003	0.0174	7.5600e-003	2.0000e-005	5.8000e-003	7.7000e-004	6.5700e-003	2.9500e-003	7.0000e-004	3.6500e-003	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241

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3.3 Site Preparation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0734	0.0734	0.0000	0.0000	0.0734
Total	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0734	0.0734	0.0000	0.0000	0.0734

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					2.2600e-003	0.0000	2.2600e-003	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9000e-004	0.0150	9.8200e-003	2.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241
Total	4.9000e-004	0.0150	9.8200e-003	2.0000e-005	2.2600e-003	3.7000e-004	2.6300e-003	1.1500e-003	3.7000e-004	1.5200e-003	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241

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3.3 Site Preparation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0734	0.0734	0.0000	0.0000	0.0734
Total	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0734	0.0734	0.0000	0.0000	0.0734

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	tons/yr										MT/yr					
Fugitive Dust					0.1420	0.0000	0.1420	0.0754	0.0000	0.0754	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0573	0.6089	0.4456	8.1000e-004		0.0283	0.0283		0.0261	0.0261	0.0000	71.5425	71.5425	0.0231	0.0000	72.1209
Total	0.0573	0.6089	0.4456	8.1000e-004	0.1420	0.0283	0.1703	0.0754	0.0261	0.1015	0.0000	71.5425	71.5425	0.0231	0.0000	72.1209

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3.4 Grading - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0455	1.6384	0.4461	4.6800e-003	0.1071	5.0300e-003	0.1122	0.0294	4.8100e-003	0.0342	0.0000	474.7159	474.7159	0.0500	0.0000	475.9662
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6500e-003	1.1100e-003	0.0129	5.0000e-005	4.9400e-003	3.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	4.1274	4.1274	9.0000e-005	0.0000	4.1296
Total	0.0471	1.6395	0.4590	4.7300e-003	0.1121	5.0600e-003	0.1171	0.0307	4.8400e-003	0.0355	0.0000	478.8432	478.8432	0.0501	0.0000	480.0957

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					0.0554	0.0000	0.0554	0.0294	0.0000	0.0294	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0281	0.7118	0.5391	8.1000e-004		0.0206	0.0206		0.0206	0.0206	0.0000	71.5424	71.5424	0.0231	0.0000	72.1209
Total	0.0281	0.7118	0.5391	8.1000e-004	0.0554	0.0206	0.0760	0.0294	0.0206	0.0501	0.0000	71.5424	71.5424	0.0231	0.0000	72.1209

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3.4 Grading - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0455	1.6384	0.4461	4.6800e-003	0.1071	5.0300e-003	0.1122	0.0294	4.8100e-003	0.0342	0.0000	474.7159	474.7159	0.0500	0.0000	475.9662
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6500e-003	1.1100e-003	0.0129	5.0000e-005	4.9400e-003	3.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	4.1274	4.1274	9.0000e-005	0.0000	4.1296
Total	0.0471	1.6395	0.4590	4.7300e-003	0.1121	5.0600e-003	0.1171	0.0307	4.8400e-003	0.0355	0.0000	478.8432	478.8432	0.0501	0.0000	480.0957

3.5 Building Construction - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1432	1.0773	1.0191	1.7400e-003		0.0541	0.0541		0.0522	0.0522	0.0000	143.4226	143.4226	0.0256	0.0000	144.0627
Total	0.1432	1.0773	1.0191	1.7400e-003		0.0541	0.0541		0.0522	0.0522	0.0000	143.4226	143.4226	0.0256	0.0000	144.0627

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3.5 Building Construction - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0127	0.4441	0.1245	1.1400e-003	0.0293	9.2000e-004	0.0303	8.4600e-003	8.8000e-004	9.3400e-003	0.0000	112.4832	112.4832	9.1000e-003	0.0000	112.7108
Worker	0.0385	0.0259	0.3018	1.0700e-003	0.1154	7.6000e-004	0.1161	0.0306	7.0000e-004	0.0313	0.0000	96.3691	96.3691	2.0600e-003	0.0000	96.4207
Total	0.0512	0.4699	0.4263	2.2100e-003	0.1447	1.6800e-003	0.1464	0.0391	1.5800e-003	0.0407	0.0000	208.8523	208.8523	0.0112	0.0000	209.1315

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	0.1130	1.3260	1.1174	1.7400e-003		0.0511	0.0511		0.0511	0.0511	0.0000	143.4225	143.4225	0.0256	0.0000	144.0626
Total	0.1130	1.3260	1.1174	1.7400e-003		0.0511	0.0511		0.0511	0.0511	0.0000	143.4225	143.4225	0.0256	0.0000	144.0626

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3.5 Building Construction - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0127	0.4441	0.1245	1.1400e-003	0.0293	9.2000e-004	0.0303	8.4600e-003	8.8000e-004	9.3400e-003	0.0000	112.4832	112.4832	9.1000e-003	0.0000	112.7108
Worker	0.0385	0.0259	0.3018	1.0700e-003	0.1154	7.6000e-004	0.1161	0.0306	7.0000e-004	0.0313	0.0000	96.3691	96.3691	2.0600e-003	0.0000	96.4207
Total	0.0512	0.4699	0.4263	2.2100e-003	0.1447	1.6800e-003	0.1464	0.0391	1.5800e-003	0.0407	0.0000	208.8523	208.8523	0.0112	0.0000	209.1315

3.5 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0500	236.0500	0.0411	0.0000	237.0778
Total	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0500	236.0500	0.0411	0.0000	237.0778

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3.5 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0197	0.6906	0.1976	1.8500e-003	0.0483	1.3200e-003	0.0496	0.0139	1.2600e-003	0.0152	0.0000	183.2738	183.2738	0.0145	0.0000	183.6363
Worker	0.0599	0.0386	0.4630	1.6900e-003	0.1898	1.2300e-003	0.1910	0.0504	1.1300e-003	0.0515	0.0000	152.7110	152.7110	3.0800e-003	0.0000	152.7881
Total	0.0796	0.7292	0.6607	3.5400e-003	0.2381	2.5500e-003	0.2407	0.0643	2.3900e-003	0.0667	0.0000	335.9849	335.9849	0.0176	0.0000	336.4244

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	0.1758	2.1641	1.8298	2.8700e-003		0.0801	0.0801		0.0801	0.0801	0.0000	236.0497	236.0497	0.0411	0.0000	237.0775
Total	0.1758	2.1641	1.8298	2.8700e-003		0.0801	0.0801		0.0801	0.0801	0.0000	236.0497	236.0497	0.0411	0.0000	237.0775

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3.5 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0197	0.6906	0.1976	1.8500e-003	0.0483	1.3200e-003	0.0496	0.0139	1.2600e-003	0.0152	0.0000	183.2738	183.2738	0.0145	0.0000	183.6363
Worker	0.0599	0.0386	0.4630	1.6900e-003	0.1898	1.2300e-003	0.1910	0.0504	1.1300e-003	0.0515	0.0000	152.7110	152.7110	3.0800e-003	0.0000	152.7881
Total	0.0796	0.7292	0.6607	3.5400e-003	0.2381	2.5500e-003	0.2407	0.0643	2.3900e-003	0.0667	0.0000	335.9849	335.9849	0.0176	0.0000	336.4244

3.5 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	0.0625	0.4801	0.5171	9.0000e-004		0.0211	0.0211		0.0204	0.0204	0.0000	74.4556	74.4556	0.0126	0.0000	74.7717
Total	0.0625	0.4801	0.5171	9.0000e-004		0.0211	0.0211		0.0204	0.0204	0.0000	74.4556	74.4556	0.0126	0.0000	74.7717

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3.5 Building Construction - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7200e-003	0.1636	0.0578	5.6000e-004	0.0152	2.0000e-004	0.0154	4.3900e-003	1.9000e-004	4.5800e-003	0.0000	56.0555	56.0555	4.2400e-003	0.0000	56.1615
Worker	0.0179	0.0111	0.1360	5.1000e-004	0.0599	3.8000e-004	0.0602	0.0159	3.5000e-004	0.0163	0.0000	46.3128	46.3128	8.8000e-004	0.0000	46.3349
Total	0.0226	0.1746	0.1938	1.0700e-003	0.0751	5.8000e-004	0.0757	0.0203	5.4000e-004	0.0208	0.0000	102.3683	102.3683	5.1200e-003	0.0000	102.4964

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	0.0527	0.6773	0.5749	9.0000e-004		0.0242	0.0242		0.0242	0.0242	0.0000	74.4556	74.4556	0.0126	0.0000	74.7716
Total	0.0527	0.6773	0.5749	9.0000e-004		0.0242	0.0242		0.0242	0.0242	0.0000	74.4556	74.4556	0.0126	0.0000	74.7716

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3.5 Building Construction - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7200e-003	0.1636	0.0578	5.6000e-004	0.0152	2.0000e-004	0.0154	4.3900e-003	1.9000e-004	4.5800e-003	0.0000	56.0555	56.0555	4.2400e-003	0.0000	56.1615
Worker	0.0179	0.0111	0.1360	5.1000e-004	0.0599	3.8000e-004	0.0602	0.0159	3.5000e-004	0.0163	0.0000	46.3128	46.3128	8.8000e-004	0.0000	46.3349
Total	0.0226	0.1746	0.1938	1.0700e-003	0.0751	5.8000e-004	0.0757	0.0203	5.4000e-004	0.0208	0.0000	102.3683	102.3683	5.1200e-003	0.0000	102.4964

3.6 Paving - 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	0.0193	0.1871	0.2641	4.1000e-004		9.2500e-003	9.2500e-003		8.5400e-003	8.5400e-003	0.0000	35.3173	35.3173	0.0112	0.0000	35.5972
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0193	0.1871	0.2641	4.1000e-004		9.2500e-003	9.2500e-003		8.5400e-003	8.5400e-003	0.0000	35.3173	35.3173	0.0112	0.0000	35.5972

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3.6 Paving - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2800e-003	7.9000e-004	9.7300e-003	4.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1600e-003	0.0000	3.3123	3.3123	6.0000e-005	0.0000	3.3139
Total	1.2800e-003	7.9000e-004	9.7300e-003	4.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1600e-003	0.0000	3.3123	3.3123	6.0000e-005	0.0000	3.3139

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0165	0.3523	0.2955	4.1000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	35.3172	35.3172	0.0112	0.0000	35.5971
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0165	0.3523	0.2955	4.1000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	35.3172	35.3172	0.0112	0.0000	35.5971

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3.6 Paving - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2800e-003	7.9000e-004	9.7300e-003	4.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1600e-003	0.0000	3.3123	3.3123	6.0000e-005	0.0000	3.3139
Total	1.2800e-003	7.9000e-004	9.7300e-003	4.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1600e-003	0.0000	3.3123	3.3123	6.0000e-005	0.0000	3.3139

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	tons/yr										MT/yr					
Archit. Coating	0.2821					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7500e-003	0.0391	0.0543	9.0000e-005		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	7.6598	7.6598	4.6000e-004	0.0000	7.6712
Total	0.2878	0.0391	0.0543	9.0000e-005		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	7.6598	7.6598	4.6000e-004	0.0000	7.6712

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3.7 Architectural Coating - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6600e-003	1.6400e-003	0.0202	8.0000e-005	8.8900e-003	6.0000e-005	8.9500e-003	2.3600e-003	5.0000e-005	2.4100e-003	0.0000	6.8794	6.8794	1.3000e-004	0.0000	6.8827
Total	2.6600e-003	1.6400e-003	0.0202	8.0000e-005	8.8900e-003	6.0000e-005	8.9500e-003	2.3600e-003	5.0000e-005	2.4100e-003	0.0000	6.8794	6.8794	1.3000e-004	0.0000	6.8827

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	0.2821					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7500e-003	0.0391	0.0543	9.0000e-005		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	7.6598	7.6598	4.6000e-004	0.0000	7.6712
Total	0.2878	0.0391	0.0543	9.0000e-005		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	7.6598	7.6598	4.6000e-004	0.0000	7.6712

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3.7 Architectural Coating - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6600e-003	1.6400e-003	0.0202	8.0000e-005	8.8900e-003	6.0000e-005	8.9500e-003	2.3600e-003	5.0000e-005	2.4100e-003	0.0000	6.8794	6.8794	1.3000e-004	0.0000	6.8827
Total	2.6600e-003	1.6400e-003	0.0202	8.0000e-005	8.8900e-003	6.0000e-005	8.9500e-003	2.3600e-003	5.0000e-005	2.4100e-003	0.0000	6.8794	6.8794	1.3000e-004	0.0000	6.8827

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

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Limit Parking Supply

Expand Transit Network

Workplace Parking Charge

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7166	2.7394	7.2072	0.0244	2.1616	0.0191	2.1807	0.5789	0.0177	0.5966	0.0000	2,248.419 3	2,248.419 3	0.1020	0.0000	2,250.968 7
Unmitigated	0.8358	3.4926	10.3760	0.0389	3.5656	0.0291	3.5948	0.9549	0.0271	0.9820	0.0000	3,588.786 7	3,588.786 7	0.1506	0.0000	3,592.552 1

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Medical Office Building	4,785.00	1,232.00	213.13	9,400,931	5,699,056
Total	4,785.00	1,232.00	213.13	9,400,931	5,699,056

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Medical Office Building	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	633.1794	633.1794	0.0358	7.4100e-003	636.2811
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	736.3288	736.3288	0.0416	8.6100e-003	739.9358
NaturalGas Mitigated	4.8700e-003	0.0442	0.0372	2.7000e-004		3.3600e-003	3.3600e-003		3.3600e-003	3.3600e-003	0.0000	48.1562	48.1562	9.2000e-004	8.8000e-004	48.4423
NaturalGas Unmitigated	6.7800e-003	0.0616	0.0518	3.7000e-004		4.6800e-003	4.6800e-003		4.6800e-003	4.6800e-003	0.0000	67.0650	67.0650	1.2900e-003	1.2300e-003	67.4635

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5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Medical Office Building	1.25675e+006	6.7800e-003	0.0616	0.0518	3.7000e-004		4.6800e-003	4.6800e-003		4.6800e-003	4.6800e-003	0.0000	67.0650	67.0650	1.2900e-003	1.2300e-003	67.4635
Total		6.7800e-003	0.0616	0.0518	3.7000e-004		4.6800e-003	4.6800e-003		4.6800e-003	4.6800e-003	0.0000	67.0650	67.0650	1.2900e-003	1.2300e-003	67.4635

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Medical Office Building	902413	4.8700e-003	0.0442	0.0372	2.7000e-004		3.3600e-003	3.3600e-003		3.3600e-003	3.3600e-003	0.0000	48.1562	48.1562	9.2000e-004	8.8000e-004	48.4423
Total		4.8700e-003	0.0442	0.0372	2.7000e-004		3.3600e-003	3.3600e-003		3.3600e-003	3.3600e-003	0.0000	48.1562	48.1562	9.2000e-004	8.8000e-004	48.4423

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	1.24076e+006	288.7150	0.0163	3.3800e-003	290.1293
Medical Office Building	1.92363e+006	447.6139	0.0253	5.2400e-003	449.8066
Total		736.3288	0.0416	8.6200e-003	739.9358

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	991757	230.7749	0.0131	2.7000e-003	231.9054
Medical Office Building	1.72934e+006	402.4045	0.0228	4.7100e-003	404.3758
Total		633.1794	0.0358	7.4100e-003	636.2811

6.0 Area Detail**6.1 Mitigation Measures Area**

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Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5396	8.0000e-005	8.7700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0171	0.0171	4.0000e-005	0.0000	0.0182
Unmitigated	0.5396	8.0000e-005	8.7700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0171	0.0171	4.0000e-005	0.0000	0.0182

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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	0.0282					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.1000e-004	8.0000e-005	8.7700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0171	0.0171	4.0000e-005	0.0000	0.0182
Total	0.5396	8.0000e-005	8.7700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0171	0.0171	4.0000e-005	0.0000	0.0182

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	0.0282					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.1000e-004	8.0000e-005	8.7700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0171	0.0171	4.0000e-005	0.0000	0.0182
Total	0.5396	8.0000e-005	8.7700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0171	0.0171	4.0000e-005	0.0000	0.0182

7.0 Water Detail

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7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	53.2757	0.4450	0.0110	67.6845
Unmitigated	65.1430	0.5562	0.0138	83.1469

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7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	16.9662 / 3.23166	65.1430	0.5562	0.0138	83.1469
Total		65.1430	0.5562	0.0138	83.1469

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	13.573 / 3.03453	53.2757	0.4450	0.0110	67.6845
Total		53.2757	0.4450	0.0110	67.6845

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	74.1054	4.3795	0.0000	183.5930
Unmitigated	296.4216	17.5180	0.0000	734.3720

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	1460.27	296.4216	17.5180	0.0000	734.3720
Total		296.4216	17.5180	0.0000	734.3720

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	365.068	74.1054	4.3795	0.0000	183.5930
Total		74.1054	4.3795	0.0000	183.5930

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

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