

EXISTING HOAG HOSPITAL EMISSIONS MODEL

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Annual

Hoag Hospital Expansion - Existing
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	245.22	1000sqft	5.63	245,221.00	0
Medical Office Building	115.76	1000sqft	2.66	115,762.00	0
General Light Industry	10.20	1000sqft	0.23	10,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Summer

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South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	245.22	1000sqft	5.63	245,221.00	0
Medical Office Building	115.76	1000sqft	2.66	115,762.00	0
General Light Industry	10.20	1000sqft	0.23	10,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Summer

Project Characteristics -

Land Use - Existing hospital 245,221 sf. Rhodes MOB 115,762 sf. Utility Plant 10,200 sf.

Construction Phase - Existing hospital emissions. No construction.

Off-road Equipment - Existing hospital. No construction.

Trips and VMT - Existing hospital emissions. No construction.

Vehicle Trips - Existing hospital 10.72 ADT. Existing Medical 34.80 ADT.

Energy Use - Use of historical data for energy use.

Sequestration -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	0.00
tblLandUse	LandUseSquareFeet	245,220.00	245,221.00
tblLandUse	LandUseSquareFeet	115,760.00	115,762.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	13.22	10.72
tblVehicleTrips	WD_TR	36.13	34.80

2.0 Emissions Summary

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.2957	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0812	0.0812	2.2000e-004		0.0867
Energy	0.5158	4.6892	3.9389	0.0281		0.3564	0.3564		0.3564	0.3564		5,626.9856	5,626.9856	0.1079	0.1032	5,660.4240
Mobile	12.9567	64.3890	167.2924	0.5670	43.8881	0.5541	44.4422	11.7436	0.5201	12.2638		57,622.2317	57,622.2317	2.8858		57,694.3774
Total	21.7682	69.0785	171.2694	0.5951	43.8881	0.9106	44.7987	11.7436	0.8767	12.6203		63,249.2985	63,249.2985	2.9939	0.1032	63,354.8881

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	8.2957	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0812	0.0812	2.2000e-004		0.0867
Energy	0.5158	4.6892	3.9389	0.0281		0.3564	0.3564		0.3564	0.3564		5,626.9856	5,626.9856	0.1079	0.1032	5,660.4240
Mobile	12.9567	64.3890	167.2924	0.5670	43.8881	0.5541	44.4422	11.7436	0.5201	12.2638		57,622.2317	57,622.2317	2.8858		57,694.3774
Total	21.7682	69.0785	171.2694	0.5951	43.8881	0.9106	44.7987	11.7436	0.8767	12.6203		63,249.2985	63,249.2985	2.9939	0.1032	63,354.8881

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/31/2020	10/30/2020	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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	Rubber Tired Dozers	0	8.00	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

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Summer

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	lb/day										lb/day					
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	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	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

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.9567	64.3890	167.2924	0.5670	43.8881	0.5541	44.4422	11.7436	0.5201	12.2638		57,622.23 17	57,622.23 17	2.8858		57,694.37 74
Unmitigated	12.9567	64.3890	167.2924	0.5670	43.8881	0.5541	44.4422	11.7436	0.5201	12.2638		57,622.23 17	57,622.23 17	2.8858		57,694.37 74

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Hospital	2,628.76	2,496.34	2184.91	9,872,124	9,872,124
Medical Office Building	4,028.45	1,037.21	179.43	7,914,558	7,914,558
Total	6,657.21	3,533.55	2,364.34	17,786,682	17,786,682

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Summer

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956
Hospital	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956
Medical Office Building	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.5158	4.6892	3.9389	0.0281		0.3564	0.3564		0.3564	0.3564		5,626.9856	5,626.9856	0.1079	0.1032	5,660.4240
NaturalGas Unmitigated	0.5158	4.6892	3.9389	0.0281		0.3564	0.3564		0.3564	0.3564		5,626.9856	5,626.9856	0.1079	0.1032	5,660.4240

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	617.589	6.6600e-003	0.0606	0.0509	3.6000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003		72.6575	72.6575	1.3900e-003	1.3300e-003	73.0893
Hospital	43777	0.4721	4.2919	3.6052	0.0258		0.3262	0.3262		0.3262	0.3262		5,150.2338	5,150.2338	0.0987	0.0944	5,180.8391
Medical Office Building	3434.8	0.0370	0.3368	0.2829	2.0200e-003		0.0256	0.0256		0.0256	0.0256		404.0943	404.0943	7.7500e-003	7.4100e-003	406.4956
Total		0.5158	4.6892	3.9389	0.0281		0.3564	0.3564		0.3564	0.3564		5,626.9856	5,626.9856	0.1079	0.1032	5,660.4240

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.617589	6.6600e-003	0.0606	0.0509	3.6000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003		72.6575	72.6575	1.3900e-003	1.3300e-003	73.0893
Hospital	43.777	0.4721	4.2919	3.6052	0.0258		0.3262	0.3262		0.3262	0.3262		5,150.2338	5,150.2338	0.0987	0.0944	5,180.8391
Medical Office Building	3.4348	0.0370	0.3368	0.2829	2.0200e-003		0.0256	0.0256		0.0256	0.0256		404.0943	404.0943	7.7500e-003	7.4100e-003	406.4956
Total		0.5158	4.6892	3.9389	0.0281		0.3564	0.3564		0.3564	0.3564		5,626.9856	5,626.9856	0.1079	0.1032	5,660.4240

6.0 Area Detail

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Summer

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.2957	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0812	0.0812	2.2000e-004		0.0867
Unmitigated	8.2957	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0812	0.0812	2.2000e-004		0.0867

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	0.9427					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.3494					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.5900e-003	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0812	0.0812	2.2000e-004		0.0867
Total	8.2957	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0812	0.0812	2.2000e-004		0.0867

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.9427					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.3494					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.5900e-003	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0812	0.0812	2.2000e-004		0.0867
Total	8.2957	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0812	0.0812	2.2000e-004		0.0867

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Summer

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

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Annual

Project Characteristics -

Land Use - Existing hospital 245,221 sf. Rhodes MOB 115,762 sf. Utility Plant 10,200 sf.

Construction Phase - Existing hospital emissions. No construction.

Off-road Equipment - Existing hospital. No construction.

Trips and VMT - Existing hospital emissions. No construction.

Vehicle Trips - Existing hospital 10.72 ADT. Existing Medical 34.80 ADT.

Energy Use - Use of historical data for energy use.

Sequestration -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	0.00
tblLandUse	LandUseSquareFeet	245,220.00	245,221.00
tblLandUse	LandUseSquareFeet	115,760.00	115,762.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	13.22	10.72
tblVehicleTrips	WD_TR	36.13	34.80

2.0 Emissions Summary

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, 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	1.5138	4.0000e-005	4.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2100e-003	9.2100e-003	2.0000e-005	0.0000	9.8300e-003
Energy	0.0941	0.8558	0.7189	5.1300e-003		0.0650	0.0650		0.0650	0.0650	0.0000	2,924.3009	2,924.3009	0.1001	0.0341	2,936.9659
Mobile	1.8665	10.4002	24.9244	0.0853	6.7584	0.0868	6.8453	1.8112	0.0815	1.8927	0.0000	7,862.7861	7,862.7861	0.4055	0.0000	7,872.9229
Waste						0.0000	0.0000		0.0000	0.0000	793.9464	0.0000	793.9464	46.9209	0.0000	1,966.9685
Water						0.0000	0.0000		0.0000	0.0000	15.1186	228.2499	243.3685	1.5623	0.0386	293.9322
Total	3.4744	11.2560	25.6480	0.0904	6.7584	0.1519	6.9103	1.8112	0.1466	1.9578	809.0650	11,015.3460	11,824.4111	48.9888	0.0727	13,070.7994

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.5138	4.0000e-005	4.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2100e-003	9.2100e-003	2.0000e-005	0.0000	9.8300e-003
Energy	0.0941	0.8558	0.7189	5.1300e-003		0.0650	0.0650		0.0650	0.0650	0.0000	2,924.3009	2,924.3009	0.1001	0.0341	2,936.9659
Mobile	1.8665	10.4002	24.9244	0.0853	6.7584	0.0868	6.8453	1.8112	0.0815	1.8927	0.0000	7,862.7861	7,862.7861	0.4055	0.0000	7,872.9229
Waste						0.0000	0.0000		0.0000	0.0000	793.9464	0.0000	793.9464	46.9209	0.0000	1,966.9685
Water						0.0000	0.0000		0.0000	0.0000	15.1186	228.2499	243.3685	1.5623	0.0386	293.9322
Total	3.4744	11.2560	25.6480	0.0904	6.7584	0.1519	6.9103	1.8112	0.1466	1.9578	809.0650	11,015.3460	11,824.4111	48.9888	0.0727	13,070.7994

	ROG	NOx	CO	SO2	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	10/31/2020	10/30/2020	5	0	

Acres of Grading (Site Preparation Phase): 0

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Annual

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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	Rubber Tired Dozers	0	8.00	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

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, 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

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, 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	1.8665	10.4002	24.9244	0.0853	6.7584	0.0868	6.8453	1.8112	0.0815	1.8927	0.0000	7,862.7861	7,862.7861	0.4055	0.0000	7,872.9229
Unmitigated	1.8665	10.4002	24.9244	0.0853	6.7584	0.0868	6.8453	1.8112	0.0815	1.8927	0.0000	7,862.7861	7,862.7861	0.4055	0.0000	7,872.9229

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Hospital	2,628.76	2,496.34	2184.91	9,872,124	9,872,124
Medical Office Building	4,028.45	1,037.21	179.43	7,914,558	7,914,558
Total	6,657.21	3,533.55	2,364.34	17,786,682	17,786,682

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Annual

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956
Hospital	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956
Medical Office Building	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956

5.0 Energy Detail

Historical Energy Use: Y

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	1,992.6904	1,992.6904	0.0823	0.0170	1,999.8193
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,992.6904	1,992.6904	0.0823	0.0170	1,999.8193
NaturalGas Mitigated	0.0941	0.8558	0.7189	5.1300e-003		0.0650	0.0650		0.0650	0.0650	0.0000	931.6106	931.6106	0.0179	0.0171	937.1467
NaturalGas Unmitigated	0.0941	0.8558	0.7189	5.1300e-003		0.0650	0.0650		0.0650	0.0650	0.0000	931.6106	931.6106	0.0179	0.0171	937.1467

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	225420	1.2200e-003	0.0111	9.2800e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	12.0293	12.0293	2.3000e-004	2.2000e-004	12.1008
Hospital	1.59786e+007	0.0862	0.7833	0.6579	4.7000e-003		0.0595	0.0595		0.0595	0.0595	0.0000	852.6790	852.6790	0.0163	0.0156	857.7460
Medical Office Building	1.2537e+006	6.7600e-003	0.0615	0.0516	3.7000e-004		4.6700e-003	4.6700e-003		4.6700e-003	4.6700e-003	0.0000	66.9023	66.9023	1.2800e-003	1.2300e-003	67.2999
Total		0.0941	0.8558	0.7188	5.1400e-003		0.0650	0.0650		0.0650	0.0650	0.0000	931.6106	931.6106	0.0179	0.0171	937.1467

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					
General Light Industry	225420	1.2200e-003	0.0111	9.2800e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	12.0293	12.0293	2.3000e-004	2.2000e-004	12.1008
Hospital	1.59786e+007	0.0862	0.7833	0.6579	4.7000e-003		0.0595	0.0595		0.0595	0.0595	0.0000	852.6790	852.6790	0.0163	0.0156	857.7460
Medical Office Building	1.2537e+006	6.7600e-003	0.0615	0.0516	3.7000e-004		4.6700e-003	4.6700e-003		4.6700e-003	4.6700e-003	0.0000	66.9023	66.9023	1.2800e-003	1.2300e-003	67.2999
Total		0.0941	0.8558	0.7188	5.1400e-003		0.0650	0.0650		0.0650	0.0650	0.0000	931.6106	931.6106	0.0179	0.0171	937.1467

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	98430	31.3619	1.2900e-003	2.7000e-004	31.4741
Hospital	4.25949e+006	1,357.1644	0.0560	0.0116	1,362.0197
Medical Office Building	1.89618e+006	604.1641	0.0249	5.1600e-003	606.3255
Total		1,992.6904	0.0823	0.0170	1,999.8193

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	98430	31.3619	1.2900e-003	2.7000e-004	31.4741
Hospital	4.25949e+006	1,357.1644	0.0560	0.0116	1,362.0197
Medical Office Building	1.89618e+006	604.1641	0.0249	5.1600e-003	606.3255
Total		1,992.6904	0.0823	0.0170	1,999.8193

6.0 Area Detail

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, 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	1.5138	4.0000e-005	4.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2100e-003	9.2100e-003	2.0000e-005	0.0000	9.8300e-003
Unmitigated	1.5138	4.0000e-005	4.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2100e-003	9.2100e-003	2.0000e-005	0.0000	9.8300e-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	0.1720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.3413					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.5000e-004	4.0000e-005	4.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2100e-003	9.2100e-003	2.0000e-005	0.0000	9.8300e-003
Total	1.5138	4.0000e-005	4.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2100e-003	9.2100e-003	2.0000e-005	0.0000	9.8300e-003

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.3413					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.5000e-004	4.0000e-005	4.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2100e-003	9.2100e-003	2.0000e-005	0.0000	9.8300e-003
Total	1.5138	4.0000e-005	4.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2100e-003	9.2100e-003	2.0000e-005	0.0000	9.8300e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	243.3685	1.5623	0.0386	293.9322
Unmitigated	243.3685	1.5623	0.0386	293.9322

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	2.35875 / 0	10.5342	0.0773	1.9000e-003	13.0316
Hospital	30.7703 / 5.86102	158.1684	1.0088	0.0249	190.8207
Medical Office Building	14.5256 / 2.76679	74.6659	0.4762	0.0118	90.0799
Total		243.3685	1.5623	0.0386	293.9322

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	2.35875 / 0	10.5342	0.0773	1.9000e-003	13.0316
Hospital	30.7703 / 5.86102	158.1684	1.0088	0.0249	190.8207
Medical Office Building	14.5256 / 2.76679	74.6659	0.4762	0.0118	90.0799
Total		243.3685	1.5623	0.0386	293.9322

8.0 Waste Detail

8.1 Mitigation Measures Waste

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	793.9464	46.9209	0.0000	1,966.9685
Unmitigated	793.9464	46.9209	0.0000	1,966.9685

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	12.65	2.5678	0.1518	0.0000	6.3617
Hospital	2648.38	537.5972	31.7711	0.0000	1,331.8743
Medical Office Building	1250.21	253.7813	14.9981	0.0000	628.7325
Total		793.9464	46.9209	0.0000	1,966.9685

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	12.65	2.5678	0.1518	0.0000	6.3617
Hospital	2648.38	537.5972	31.7711	0.0000	1,331.8743
Medical Office Building	1250.21	253.7813	14.9981	0.0000	628.7325
Total		793.9464	46.9209	0.0000	1,966.9685

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
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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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Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Annual

11.0 Vegetation

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Winter

Hoag Hospital Expansion - Existing
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	245.22	1000sqft	5.63	245,221.00	0
Medical Office Building	115.76	1000sqft	2.66	115,762.00	0
General Light Industry	10.20	1000sqft	0.23	10,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Winter

Project Characteristics -

Land Use - Existing hospital 245,221 sf. Rhodes MOB 115,762 sf. Utility Plant 10,200 sf.

Construction Phase - Existing hospital emissions. No construction.

Off-road Equipment - Existing hospital. No construction.

Trips and VMT - Existing hospital emissions. No construction.

Vehicle Trips - Existing hospital 10.72 ADT. Existing Medical 34.80 ADT.

Energy Use - Use of historical data for energy use.

Sequestration -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	0.00
tblLandUse	LandUseSquareFeet	245,220.00	245,221.00
tblLandUse	LandUseSquareFeet	115,760.00	115,762.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	13.22	10.72
tblVehicleTrips	WD_TR	36.13	34.80

2.0 Emissions Summary

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.2957	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0812	0.0812	2.2000e-004		0.0867
Energy	0.5158	4.6892	3.9389	0.0281		0.3564	0.3564		0.3564	0.3564		5,626.9856	5,626.9856	0.1079	0.1032	5,660.4240
Mobile	12.3410	65.7737	157.2949	0.5363	43.8881	0.5573	44.4454	11.7436	0.5233	12.2669		54,537.1685	54,537.1685	2.8830		54,609.2434
Total	21.1526	70.4632	161.2720	0.5644	43.8881	0.9139	44.8020	11.7436	0.8798	12.6234		60,164.2354	60,164.2354	2.9911	0.1032	60,269.7541

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	8.2957	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0812	0.0812	2.2000e-004		0.0867
Energy	0.5158	4.6892	3.9389	0.0281		0.3564	0.3564		0.3564	0.3564		5,626.9856	5,626.9856	0.1079	0.1032	5,660.4240
Mobile	12.3410	65.7737	157.2949	0.5363	43.8881	0.5573	44.4454	11.7436	0.5233	12.2669		54,537.1685	54,537.1685	2.8830		54,609.2434
Total	21.1526	70.4632	161.2720	0.5644	43.8881	0.9139	44.8020	11.7436	0.8798	12.6234		60,164.2354	60,164.2354	2.9911	0.1032	60,269.7541

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/31/2020	10/30/2020	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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	Rubber Tired Dozers	0	8.00	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

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Winter

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	lb/day										lb/day					
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	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	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

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.3410	65.7737	157.2949	0.5363	43.8881	0.5573	44.4454	11.7436	0.5233	12.2669		54,537.1685	54,537.1685	2.8830		54,609.2434
Unmitigated	12.3410	65.7737	157.2949	0.5363	43.8881	0.5573	44.4454	11.7436	0.5233	12.2669		54,537.1685	54,537.1685	2.8830		54,609.2434

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Hospital	2,628.76	2,496.34	2184.91	9,872,124	9,872,124
Medical Office Building	4,028.45	1,037.21	179.43	7,914,558	7,914,558
Total	6,657.21	3,533.55	2,364.34	17,786,682	17,786,682

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Winter

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956
Hospital	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956
Medical Office Building	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.5158	4.6892	3.9389	0.0281		0.3564	0.3564		0.3564	0.3564		5,626.9856	5,626.9856	0.1079	0.1032	5,660.4240
NaturalGas Unmitigated	0.5158	4.6892	3.9389	0.0281		0.3564	0.3564		0.3564	0.3564		5,626.9856	5,626.9856	0.1079	0.1032	5,660.4240

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Winter

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	617.589	6.6600e-003	0.0606	0.0509	3.6000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003		72.6575	72.6575	1.3900e-003	1.3300e-003	73.0893
Hospital	43777	0.4721	4.2919	3.6052	0.0258		0.3262	0.3262		0.3262	0.3262		5,150.2338	5,150.2338	0.0987	0.0944	5,180.8391
Medical Office Building	3434.8	0.0370	0.3368	0.2829	2.0200e-003		0.0256	0.0256		0.0256	0.0256		404.0943	404.0943	7.7500e-003	7.4100e-003	406.4956
Total		0.5158	4.6892	3.9389	0.0281		0.3564	0.3564		0.3564	0.3564		5,626.9856	5,626.9856	0.1079	0.1032	5,660.4240

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.617589	6.6600e-003	0.0606	0.0509	3.6000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003		72.6575	72.6575	1.3900e-003	1.3300e-003	73.0893
Hospital	43.777	0.4721	4.2919	3.6052	0.0258		0.3262	0.3262		0.3262	0.3262		5,150.2338	5,150.2338	0.0987	0.0944	5,180.8391
Medical Office Building	3.4348	0.0370	0.3368	0.2829	2.0200e-003		0.0256	0.0256		0.0256	0.0256		404.0943	404.0943	7.7500e-003	7.4100e-003	406.4956
Total		0.5158	4.6892	3.9389	0.0281		0.3564	0.3564		0.3564	0.3564		5,626.9856	5,626.9856	0.1079	0.1032	5,660.4240

6.0 Area Detail

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Winter

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	8.2957	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0812	0.0812	2.2000e-004			0.0867
Unmitigated	8.2957	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0812	0.0812	2.2000e-004			0.0867

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	0.9427					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	7.3494					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	3.5900e-003	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0812	0.0812	2.2000e-004			0.0867
Total	8.2957	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0812	0.0812	2.2000e-004			0.0867

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.9427					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.3494					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.5900e-003	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0812	0.0812	2.2000e-004		0.0867
Total	8.2957	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0812	0.0812	2.2000e-004		0.0867

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Hoag Hospital Expansion - Existing - South Coast AQMD Air District, Winter

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

CONSTRUCTION EMISSIONS PHASE 1

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

Hoag Hospital Expansion Project - Phase 1
South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	158.74	1000sqft	3.64	158,740.00	0
Medical Office Building	130.00	1000sqft	2.98	130,000.00	0
General Light Industry	47.55	1000sqft	1.09	47,550.00	0
Unenclosed Parking with Elevator	1,482.00	Space	13.34	592,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

Project Characteristics -

Land Use - Phase 1: Hospital and ancillary buildings 158,740 sf. Two 5-story parking structures (1) 716 stall, (2) 766. Utility Plant 47,550 sf. Hospital support services 130,000 sf.

Construction Phase - Phase one duration 48 months. Start 2021, completion 2025. Construction phases extended to match Phase 1 schedule.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition - Demolition of existing 3,260 sf structure, parking lot, and landscaping for haul away. Estimated 500 tons of material.

Grading -

Vehicle Trips -

Energy Use -

Sequestration -

Construction Off-road Equipment Mitigation - Fugitive dust emissions controlled by watering on-site at least 3 times daily per SCAQMD Rule 403. All off-road equipment over 50 HP will utilize Tier 2 engines.

Area Mitigation - Low VOC architectural coatings per SCAQMD Rule 1113.

Energy Mitigation -

Water Mitigation - Low-flow water fixtures and irrigation systems will be implemented to meet state water reduction measures.

Waste Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	20.00	150.00

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

tblConstructionPhase	NumDays	370.00	620.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	35.00	90.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	PhaseEndDate	4/26/2023	7/9/2025
tblConstructionPhase	PhaseEndDate	3/1/2023	7/24/2024
tblConstructionPhase	PhaseEndDate	7/28/2021	8/11/2021
tblConstructionPhase	PhaseEndDate	9/29/2021	3/9/2022
tblConstructionPhase	PhaseEndDate	3/29/2023	12/11/2024
tblConstructionPhase	PhaseEndDate	8/11/2021	11/3/2021
tblConstructionPhase	PhaseStartDate	3/30/2023	12/12/2024
tblConstructionPhase	PhaseStartDate	9/30/2021	3/10/2022
tblConstructionPhase	PhaseStartDate	8/12/2021	11/4/2021
tblConstructionPhase	PhaseStartDate	3/2/2023	7/25/2024
tblConstructionPhase	PhaseStartDate	7/29/2021	8/12/2021

2.0 Emissions Summary

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.2573	2.6711	1.6494	3.1700e-003	0.8065	0.1264	0.9329	0.3847	0.1165	0.5012	0.0000	278.9228	278.9228	0.0843	0.0000	281.0289
2022	0.4626	4.1825	4.0552	0.0123	0.7905	0.1309	0.9214	0.2345	0.1223	0.3568	0.0000	1,121.6539	1,121.6539	0.1345	0.0000	1,125.0171
2023	0.4165	3.3566	3.9184	0.0129	0.6394	0.0962	0.7356	0.1727	0.0905	0.2632	0.0000	1,178.9586	1,178.9586	0.1078	0.0000	1,181.6545
2024	0.4322	2.3208	2.9431	8.4900e-003	0.3777	0.0723	0.4500	0.1019	0.0675	0.1695	0.0000	775.0435	775.0435	0.0932	0.0000	777.3730
2025	1.5158	0.0882	0.2490	6.5000e-004	0.0537	3.8700e-003	0.0576	0.0143	3.8400e-003	0.0181	0.0000	57.7486	57.7486	1.8000e-003	0.0000	57.7936
Maximum	1.5158	4.1825	4.0552	0.0129	0.8065	0.1309	0.9329	0.3847	0.1223	0.5012	0.0000	1,178.9586	1,178.9586	0.1345	0.0000	1,181.6545

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0984	2.5878	1.8729	3.1700e-003	0.3227	0.0702	0.3929	0.1522	0.0702	0.2224	0.0000	278.9225	278.9225	0.0843	0.0000	281.0286
2022	0.3708	5.2974	4.4207	0.0123	0.6295	0.1296	0.7591	0.1782	0.1292	0.3074	0.0000	1,121.6534	1,121.6534	0.1345	0.0000	1,125.0166
2023	0.3719	4.5136	4.1538	0.0129	0.6394	0.1166	0.7560	0.1727	0.1162	0.2889	0.0000	1,178.9582	1,178.9582	0.1078	0.0000	1,181.6541
2024	0.4095	3.5835	3.2154	8.4900e-003	0.3777	0.0999	0.4776	0.1019	0.0997	0.2016	0.0000	775.0432	775.0432	0.0932	0.0000	777.3726
2025	1.5119	0.1703	0.2506	6.5000e-004	0.0537	6.8400e-003	0.0606	0.0143	6.8100e-003	0.0211	0.0000	57.7485	57.7485	1.8000e-003	0.0000	57.7936
Maximum	1.5119	5.2974	4.4207	0.0129	0.6394	0.1296	0.7591	0.1782	0.1292	0.3074	0.0000	1,178.9582	1,178.9582	0.1345	0.0000	1,181.6541

	ROG	NOx	CO	SO2	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	10.43	-28.00	-8.57	0.00	24.17	1.52	21.03	31.80	-5.36	20.42	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	7-1-2021	9-30-2021	1.3220	1.1430
2	10-1-2021	12-31-2021	1.5917	1.5279
3	1-1-2022	3-31-2022	1.3025	1.6165
4	4-1-2022	6-30-2022	1.1004	1.3362
5	7-1-2022	9-30-2022	1.1125	1.3509
6	10-1-2022	12-31-2022	1.1195	1.3579

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

7	1-1-2023	3-31-2023	0.9321	1.2071
8	4-1-2023	6-30-2023	0.9366	1.2146
9	7-1-2023	9-30-2023	0.9468	1.2280
10	10-1-2023	12-31-2023	0.9528	1.2340
11	1-1-2024	3-31-2024	0.9026	1.2126
12	4-1-2024	6-30-2024	0.8969	1.2070
13	7-1-2024	9-30-2024	0.4939	0.8315
14	10-1-2024	12-31-2024	0.4421	0.7206
15	1-1-2025	3-31-2025	0.7589	0.7959
16	4-1-2025	6-30-2025	0.7661	0.8034
17	7-1-2025	9-30-2025	0.0758	0.0795
		Highest	1.5917	1.6165

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4198	2.1000e-004	0.0232	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0451	0.0451	1.2000e-004	0.0000	0.0481
Energy	0.0633	0.5752	0.4831	3.4500e-003		0.0437	0.0437		0.0437	0.0437	0.0000	2,501.2158	2,501.2158	0.0894	0.0275	2,511.6447
Mobile	1.3215	6.4793	17.4654	0.0730	6.7616	0.0534	6.8150	1.8113	0.0496	1.8609	0.0000	6,765.1549	6,765.1549	0.2957	0.0000	6,772.5478
Waste						0.0000	0.0000		0.0000	0.0000	644.9733	0.0000	644.9733	38.1168	0.0000	1,597.8941
Water						0.0000	0.0000		0.0000	0.0000	14.9830	220.3641	235.3471	1.5480	0.0382	285.4363
Total	2.8046	7.0547	17.9717	0.0765	6.7616	0.0972	6.8588	1.8113	0.0934	1.9047	659.9564	9,486.7799	10,146.7362	40.0501	0.0657	11,167.5711

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4198	2.1000e-004	0.0232	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0451	0.0451	1.2000e-004	0.0000	0.0481
Energy	0.0633	0.5752	0.4831	3.4500e-003		0.0437	0.0437		0.0437	0.0437	0.0000	2,501.2158	2,501.2158	0.0894	0.0275	2,511.6447
Mobile	1.3215	6.4793	17.4654	0.0730	6.7616	0.0534	6.8150	1.8113	0.0496	1.8609	0.0000	6,765.1549	6,765.1549	0.2957	0.0000	6,772.5478
Waste						0.0000	0.0000		0.0000	0.0000	644.9733	0.0000	644.9733	38.1168	0.0000	1,597.8941
Water						0.0000	0.0000		0.0000	0.0000	11.9864	179.6870	191.6734	1.2385	0.0306	231.7569
Total	2.8046	7.0547	17.9717	0.0765	6.7616	0.0972	6.8588	1.8113	0.0934	1.9047	656.9598	9,446.1028	10,103.0625	39.7406	0.0581	11,113.8917

	ROG	NOx	CO	SO2	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	0.45	0.43	0.43	0.77	11.59	0.48

3.0 Construction Detail

Construction Phase

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2021	8/11/2021	5	30	
2	Site Preparation	Site Preparation	8/12/2021	11/3/2021	5	60	
3	Grading	Grading	11/4/2021	3/9/2022	5	90	
4	Building Construction	Building Construction	3/10/2022	7/24/2024	5	620	
5	Paving	Paving	7/25/2024	12/11/2024	5	100	
6	Architectural Coating	Architectural Coating	12/12/2024	7/9/2025	5	150	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 225

Acres of Paving: 13.34

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 504,435; Non-Residential Outdoor: 168,145; Striped Parking Area: 35,568 (Architectural Coating – sqft)

OffRoad Equipment

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

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

Trips and VMT

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	49.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	361.00	152.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	72.00	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					5.3500e-003	0.0000	5.3500e-003	8.1000e-004	0.0000	8.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
Total	0.0475	0.4716	0.3235	5.8000e-004	5.3500e-003	0.0233	0.0286	8.1000e-004	0.0216	0.0224	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

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	1.9000e-004	6.5500e-003	1.4400e-003	2.0000e-005	4.2000e-004	2.0000e-005	4.4000e-004	1.2000e-004	2.0000e-005	1.3000e-004	0.0000	1.8387	1.8387	1.3000e-004	0.0000	1.8420
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	9.4000e-004	6.9000e-004	7.8500e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.1525	2.1525	6.0000e-005	0.0000	2.1539
Total	1.1300e-003	7.2400e-003	9.2900e-003	4.0000e-005	2.8900e-003	4.0000e-005	2.9300e-003	7.8000e-004	4.0000e-005	8.0000e-004	0.0000	3.9911	3.9911	1.9000e-004	0.0000	3.9959

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					2.0900e-003	0.0000	2.0900e-003	3.2000e-004	0.0000	3.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0189	0.4900	0.3701	5.8000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
Total	0.0189	0.4900	0.3701	5.8000e-004	2.0900e-003	0.0137	0.0158	3.2000e-004	0.0137	0.0140	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

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	1.9000e-004	6.5500e-003	1.4400e-003	2.0000e-005	4.2000e-004	2.0000e-005	4.4000e-004	1.2000e-004	2.0000e-005	1.3000e-004	0.0000	1.8387	1.8387	1.3000e-004	0.0000	1.8420
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	9.4000e-004	6.9000e-004	7.8500e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.1525	2.1525	6.0000e-005	0.0000	2.1539
Total	1.1300e-003	7.2400e-003	9.2900e-003	4.0000e-005	2.8900e-003	4.0000e-005	2.9300e-003	7.8000e-004	4.0000e-005	8.0000e-004	0.0000	3.9911	3.9911	1.9000e-004	0.0000	3.9959

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1167	1.2149	0.6346	1.1400e-003		0.0613	0.0613		0.0564	0.0564	0.0000	100.3072	100.3072	0.0324	0.0000	101.1182
Total	0.1167	1.2149	0.6346	1.1400e-003	0.5420	0.0613	0.6033	0.2979	0.0564	0.3544	0.0000	100.3072	100.3072	0.0324	0.0000	101.1182

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

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	2.2400e-003	1.6700e-003	0.0189	6.0000e-005	5.9200e-003	4.0000e-005	5.9700e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	5.1659	5.1659	1.4000e-004	0.0000	5.1694
Total	2.2400e-003	1.6700e-003	0.0189	6.0000e-005	5.9200e-003	4.0000e-005	5.9700e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	5.1659	5.1659	1.4000e-004	0.0000	5.1694

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					0.2114	0.0000	0.2114	0.1162	0.0000	0.1162	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0363	1.0116	0.6888	1.1400e-003		0.0284	0.0284		0.0284	0.0284	0.0000	100.3070	100.3070	0.0324	0.0000	101.1181
Total	0.0363	1.0116	0.6888	1.1400e-003	0.2114	0.0284	0.2398	0.1162	0.0284	0.1446	0.0000	100.3070	100.3070	0.0324	0.0000	101.1181

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

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	2.2400e-003	1.6700e-003	0.0189	6.0000e-005	5.9200e-003	4.0000e-005	5.9700e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	5.1659	5.1659	1.4000e-004	0.0000	5.1694
Total	2.2400e-003	1.6700e-003	0.0189	6.0000e-005	5.9200e-003	4.0000e-005	5.9700e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	5.1659	5.1659	1.4000e-004	0.0000	5.1694

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					0.2458	0.0000	0.2458	0.0824	0.0000	0.0824	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0880	0.9744	0.6485	1.3000e-003		0.0417	0.0417		0.0384	0.0384	0.0000	114.4395	114.4395	0.0370	0.0000	115.3648
Total	0.0880	0.9744	0.6485	1.3000e-003	0.2458	0.0417	0.2875	0.0824	0.0384	0.1208	0.0000	114.4395	114.4395	0.0370	0.0000	115.3648

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

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	0.0000	0.0000	0.0000	0.0000	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	1.7500e-003	1.3000e-003	0.0147	4.0000e-005	4.6100e-003	3.0000e-005	4.6400e-003	1.2200e-003	3.0000e-005	1.2600e-003	0.0000	4.0179	4.0179	1.1000e-004	0.0000	4.0206
Total	1.7500e-003	1.3000e-003	0.0147	4.0000e-005	4.6100e-003	3.0000e-005	4.6400e-003	1.2200e-003	3.0000e-005	1.2600e-003	0.0000	4.0179	4.0179	1.1000e-004	0.0000	4.0206

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					0.0959	0.0000	0.0959	0.0321	0.0000	0.0321	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0380	1.0760	0.7712	1.3000e-003		0.0280	0.0280		0.0280	0.0280	0.0000	114.4393	114.4393	0.0370	0.0000	115.3646
Total	0.0380	1.0760	0.7712	1.3000e-003	0.0959	0.0280	0.1239	0.0321	0.0280	0.0601	0.0000	114.4393	114.4393	0.0370	0.0000	115.3646

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

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	0.0000	0.0000	0.0000	0.0000	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	1.7500e-003	1.3000e-003	0.0147	4.0000e-005	4.6100e-003	3.0000e-005	4.6400e-003	1.2200e-003	3.0000e-005	1.2600e-003	0.0000	4.0179	4.0179	1.1000e-004	0.0000	4.0206
Total	1.7500e-003	1.3000e-003	0.0147	4.0000e-005	4.6100e-003	3.0000e-005	4.6400e-003	1.2200e-003	3.0000e-005	1.2600e-003	0.0000	4.0179	4.0179	1.1000e-004	0.0000	4.0206

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2638	0.0000	0.2638	0.0923	0.0000	0.0923	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0870	0.9322	0.6970	1.4900e-003		0.0392	0.0392		0.0361	0.0361	0.0000	130.8830	130.8830	0.0423	0.0000	131.9413
Total	0.0870	0.9322	0.6970	1.4900e-003	0.2638	0.0392	0.3031	0.0923	0.0361	0.1284	0.0000	130.8830	130.8830	0.0423	0.0000	131.9413

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8700e-003	1.3400e-003	0.0155	5.0000e-005	5.2700e-003	4.0000e-005	5.3000e-003	1.4000e-003	4.0000e-005	1.4300e-003	0.0000	4.4275	4.4275	1.1000e-004	0.0000	4.4303
Total	1.8700e-003	1.3400e-003	0.0155	5.0000e-005	5.2700e-003	4.0000e-005	5.3000e-003	1.4000e-003	4.0000e-005	1.4300e-003	0.0000	4.4275	4.4275	1.1000e-004	0.0000	4.4303

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					0.1029	0.0000	0.1029	0.0360	0.0000	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0435	1.2297	0.8813	1.4900e-003		0.0320	0.0320		0.0320	0.0320	0.0000	130.8829	130.8829	0.0423	0.0000	131.9411
Total	0.0435	1.2297	0.8813	1.4900e-003	0.1029	0.0320	0.1349	0.0360	0.0320	0.0680	0.0000	130.8829	130.8829	0.0423	0.0000	131.9411

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8700e-003	1.3400e-003	0.0155	5.0000e-005	5.2700e-003	4.0000e-005	5.3000e-003	1.4000e-003	4.0000e-005	1.4300e-003	0.0000	4.4275	4.4275	1.1000e-004	0.0000	4.4303
Total	1.8700e-003	1.3400e-003	0.0155	5.0000e-005	5.2700e-003	4.0000e-005	5.3000e-003	1.4000e-003	4.0000e-005	1.4300e-003	0.0000	4.4275	4.4275	1.1000e-004	0.0000	4.4303

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	0.1809	1.6553	1.7345	2.8500e-003		0.0858	0.0858		0.0807	0.0807	0.0000	245.6288	245.6288	0.0589	0.0000	247.0999
Total	0.1809	1.6553	1.7345	2.8500e-003		0.0858	0.0858		0.0807	0.0807	0.0000	245.6288	245.6288	0.0589	0.0000	247.0999

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

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	0.0435	1.4871	0.3750	3.9900e-003	0.1015	2.7800e-003	0.1043	0.0293	2.6600e-003	0.0320	0.0000	387.7541	387.7541	0.0243	0.0000	388.3626
Worker	0.1494	0.1066	1.2332	3.9000e-003	0.4198	3.0800e-003	0.4229	0.1115	2.8300e-003	0.1143	0.0000	352.9605	352.9605	8.9000e-003	0.0000	353.1830
Total	0.1928	1.5937	1.6082	7.8900e-003	0.5214	5.8600e-003	0.5272	0.1408	5.4900e-003	0.1463	0.0000	740.7146	740.7146	0.0332	0.0000	741.5456

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	0.1327	2.4727	1.9157	2.8500e-003		0.0917	0.0917		0.0917	0.0917	0.0000	245.6285	245.6285	0.0589	0.0000	247.0996
Total	0.1327	2.4727	1.9157	2.8500e-003		0.0917	0.0917		0.0917	0.0917	0.0000	245.6285	245.6285	0.0589	0.0000	247.0996

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

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	0.0435	1.4871	0.3750	3.9900e-003	0.1015	2.7800e-003	0.1043	0.0293	2.6600e-003	0.0320	0.0000	387.7541	387.7541	0.0243	0.0000	388.3626
Worker	0.1494	0.1066	1.2332	3.9000e-003	0.4198	3.0800e-003	0.4229	0.1115	2.8300e-003	0.1143	0.0000	352.9605	352.9605	8.9000e-003	0.0000	353.1830
Total	0.1928	1.5937	1.6082	7.8900e-003	0.5214	5.8600e-003	0.5272	0.1408	5.4900e-003	0.1463	0.0000	740.7146	740.7146	0.0332	0.0000	741.5456

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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

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	0.0396	1.3683	0.4121	4.7400e-003	0.1245	1.5900e-003	0.1261	0.0359	1.5200e-003	0.0374	0.0000	460.8657	460.8657	0.0263	0.0000	461.5236
Worker	0.1725	0.1183	1.3945	4.6100e-003	0.5149	3.6700e-003	0.5186	0.1367	3.3800e-003	0.1401	0.0000	416.7467	416.7467	9.8400e-003	0.0000	416.9926
Total	0.2120	1.4866	1.8066	9.3500e-003	0.6394	5.2600e-003	0.6447	0.1727	4.9000e-003	0.1776	0.0000	877.6124	877.6124	0.0362	0.0000	878.5162

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	0.1598	3.0270	2.3471	3.5000e-003		0.1113	0.1113		0.1113	0.1113	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	0.1598	3.0270	2.3471	3.5000e-003		0.1113	0.1113		0.1113	0.1113	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

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	0.0396	1.3683	0.4121	4.7400e-003	0.1245	1.5900e-003	0.1261	0.0359	1.5200e-003	0.0374	0.0000	460.8657	460.8657	0.0263	0.0000	461.5236
Worker	0.1725	0.1183	1.3945	4.6100e-003	0.5149	3.6700e-003	0.5186	0.1367	3.3800e-003	0.1401	0.0000	416.7467	416.7467	9.8400e-003	0.0000	416.9926
Total	0.2120	1.4866	1.8066	9.3500e-003	0.6394	5.2600e-003	0.6447	0.1727	4.9000e-003	0.1776	0.0000	877.6124	877.6124	0.0362	0.0000	878.5162

3.5 Building Construction - 2024

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	0.1089	0.9948	1.1963	1.9900e-003		0.0454	0.0454		0.0427	0.0427	0.0000	171.5683	171.5683	0.0406	0.0000	172.5826
Total	0.1089	0.9948	1.1963	1.9900e-003		0.0454	0.0454		0.0427	0.0427	0.0000	171.5683	171.5683	0.0406	0.0000	172.5826

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

3.5 Building Construction - 2024

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	0.0220	0.7769	0.2279	2.6800e-003	0.0709	8.9000e-004	0.0718	0.0205	8.5000e-004	0.0213	0.0000	261.3984	261.3984	0.0148	0.0000	261.7672
Worker	0.0930	0.0614	0.7401	2.5400e-003	0.2931	2.0600e-003	0.2952	0.0778	1.9000e-003	0.0797	0.0000	229.3890	229.3890	5.1300e-003	0.0000	229.5171
Total	0.1151	0.8383	0.9680	5.2200e-003	0.3640	2.9500e-003	0.3669	0.0983	2.7500e-003	0.1010	0.0000	490.7874	490.7874	0.0199	0.0000	491.2843

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	0.0896	1.7201	1.3350	1.9900e-003		0.0628	0.0628		0.0628	0.0628	0.0000	171.5681	171.5681	0.0406	0.0000	172.5824
Total	0.0896	1.7201	1.3350	1.9900e-003		0.0628	0.0628		0.0628	0.0628	0.0000	171.5681	171.5681	0.0406	0.0000	172.5824

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

3.5 Building Construction - 2024

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	0.0220	0.7769	0.2279	2.6800e-003	0.0709	8.9000e-004	0.0718	0.0205	8.5000e-004	0.0213	0.0000	261.3984	261.3984	0.0148	0.0000	261.7672
Worker	0.0930	0.0614	0.7401	2.5400e-003	0.2931	2.0600e-003	0.2952	0.0778	1.9000e-003	0.0797	0.0000	229.3890	229.3890	5.1300e-003	0.0000	229.5171
Total	0.1151	0.8383	0.9680	5.2200e-003	0.3640	2.9500e-003	0.3669	0.0983	2.7500e-003	0.1010	0.0000	490.7874	490.7874	0.0199	0.0000	491.2843

3.6 Paving - 2024

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	0.0494	0.4762	0.7313	1.1400e-003		0.0234	0.0234		0.0216	0.0216	0.0000	100.1327	100.1327	0.0324	0.0000	100.9423
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0494	0.4762	0.7313	1.1400e-003		0.0234	0.0234		0.0216	0.0216	0.0000	100.1327	100.1327	0.0324	0.0000	100.9423

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

3.6 Paving - 2024

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	2.6100e-003	1.7200e-003	0.0208	7.0000e-005	8.2300e-003	6.0000e-005	8.2900e-003	2.1900e-003	5.0000e-005	2.2400e-003	0.0000	6.4401	6.4401	1.4000e-004	0.0000	6.4437
Total	2.6100e-003	1.7200e-003	0.0208	7.0000e-005	8.2300e-003	6.0000e-005	8.2900e-003	2.1900e-003	5.0000e-005	2.2400e-003	0.0000	6.4401	6.4401	1.4000e-004	0.0000	6.4437

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	0.0466	1.0057	0.8648	1.1400e-003		0.0334	0.0334		0.0334	0.0334	0.0000	100.1325	100.1325	0.0324	0.0000	100.9422
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0466	1.0057	0.8648	1.1400e-003		0.0334	0.0334		0.0334	0.0334	0.0000	100.1325	100.1325	0.0324	0.0000	100.9422

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

3.6 Paving - 2024

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	2.6100e-003	1.7200e-003	0.0208	7.0000e-005	8.2300e-003	6.0000e-005	8.2900e-003	2.1900e-003	5.0000e-005	2.2400e-003	0.0000	6.4401	6.4401	1.4000e-004	0.0000	6.4437
Total	2.6100e-003	1.7200e-003	0.0208	7.0000e-005	8.2300e-003	6.0000e-005	8.2900e-003	2.1900e-003	5.0000e-005	2.2400e-003	0.0000	6.4401	6.4401	1.4000e-004	0.0000	6.4437

3.7 Architectural Coating - 2024

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	0.1532					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2700e-003	8.5300e-003	0.0127	2.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	1.7873	1.7873	1.0000e-004	0.0000	1.7898
Total	0.1544	8.5300e-003	0.0127	2.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	1.7873	1.7873	1.0000e-004	0.0000	1.7898

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

3.7 Architectural Coating - 2024

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	1.7600e-003	1.1600e-003	0.0140	5.0000e-005	5.5300e-003	4.0000e-005	5.5700e-003	1.4700e-003	4.0000e-005	1.5000e-003	0.0000	4.3278	4.3278	1.0000e-004	0.0000	4.3302
Total	1.7600e-003	1.1600e-003	0.0140	5.0000e-005	5.5300e-003	4.0000e-005	5.5700e-003	1.4700e-003	4.0000e-005	1.5000e-003	0.0000	4.3278	4.3278	1.0000e-004	0.0000	4.3302

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	0.1532					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0000e-004	0.0165	0.0128	2.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	1.7873	1.7873	1.0000e-004	0.0000	1.7898
Total	0.1540	0.0165	0.0128	2.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	1.7873	1.7873	1.0000e-004	0.0000	1.7898

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

3.7 Architectural Coating - 2024

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	1.7600e-003	1.1600e-003	0.0140	5.0000e-005	5.5300e-003	4.0000e-005	5.5700e-003	1.4700e-003	4.0000e-005	1.5000e-003	0.0000	4.3278	4.3278	1.0000e-004	0.0000	4.3302
Total	1.7600e-003	1.1600e-003	0.0140	5.0000e-005	5.5300e-003	4.0000e-005	5.5700e-003	1.4700e-003	4.0000e-005	1.5000e-003	0.0000	4.3278	4.3278	1.0000e-004	0.0000	4.3302

3.7 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4880					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0116	0.0779	0.1230	2.0000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	17.3621	17.3621	9.5000e-004	0.0000	17.3858
Total	1.4996	0.0779	0.1230	2.0000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	17.3621	17.3621	9.5000e-004	0.0000	17.3858

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

3.7 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0162	0.0103	0.1260	4.5000e-004	0.0537	3.7000e-004	0.0541	0.0143	3.4000e-004	0.0146	0.0000	40.3864	40.3864	8.6000e-004	0.0000	40.4078
Total	0.0162	0.0103	0.1260	4.5000e-004	0.0537	3.7000e-004	0.0541	0.0143	3.4000e-004	0.0146	0.0000	40.3864	40.3864	8.6000e-004	0.0000	40.4078

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4880					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7500e-003	0.1600	0.1246	2.0000e-004		6.4700e-003	6.4700e-003		6.4700e-003	6.4700e-003	0.0000	17.3621	17.3621	9.5000e-004	0.0000	17.3858
Total	1.4957	0.1600	0.1246	2.0000e-004		6.4700e-003	6.4700e-003		6.4700e-003	6.4700e-003	0.0000	17.3621	17.3621	9.5000e-004	0.0000	17.3858

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

3.7 Architectural Coating - 2025

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	0.0162	0.0103	0.1260	4.5000e-004	0.0537	3.7000e-004	0.0541	0.0143	3.4000e-004	0.0146	0.0000	40.3864	40.3864	8.6000e-004	0.0000	40.4078
Total	0.0162	0.0103	0.1260	4.5000e-004	0.0537	3.7000e-004	0.0541	0.0143	3.4000e-004	0.0146	0.0000	40.3864	40.3864	8.6000e-004	0.0000	40.4078

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3215	6.4793	17.4654	0.0730	6.7616	0.0534	6.8150	1.8113	0.0496	1.8609	0.0000	6,765.1549	6,765.1549	0.2957	0.0000	6,772.5478
Unmitigated	1.3215	6.4793	17.4654	0.0730	6.7616	0.0534	6.8150	1.8113	0.0496	1.8609	0.0000	6,765.1549	6,765.1549	0.2957	0.0000	6,772.5478

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	331.42	62.77	32.33	1,108,472	1,108,472
Hospital	2,098.54	1,615.97	1414.37	7,489,538	7,489,538
Medical Office Building	4,696.90	1,164.80	201.50	9,208,494	9,208,494
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	7,126.87	2,843.54	1,648.21	17,806,504	17,806,504

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
Hospital	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
Medical Office Building	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
Unenclosed Parking with Elevator	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827

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	1,875.0779	1,875.0779	0.0774	0.0160	1,881.7860
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,875.0779	1,875.0779	0.0774	0.0160	1,881.7860
NaturalGas Mitigated	0.0633	0.5752	0.4831	3.4500e-003		0.0437	0.0437		0.0437	0.0437	0.0000	626.1379	626.1379	0.0120	0.0115	629.8587
NaturalGas Unmitigated	0.0633	0.5752	0.4831	3.4500e-003		0.0437	0.0437		0.0437	0.0437	0.0000	626.1379	626.1379	0.0120	0.0115	629.8587

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	993795	5.3600e-003	0.0487	0.0409	2.9000e-004		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	53.0327	53.0327	1.0200e-003	9.7000e-004	53.3478
Hospital	9.55139e+006	0.0515	0.4682	0.3933	2.8100e-003		0.0356	0.0356		0.0356	0.0356	0.0000	509.6983	509.6983	9.7700e-003	9.3400e-003	512.7272
Medical Office Building	1.1882e+006	6.4100e-003	0.0583	0.0489	3.5000e-004		4.4300e-003	4.4300e-003		4.4300e-003	4.4300e-003	0.0000	63.4069	63.4069	1.2200e-003	1.1600e-003	63.7837
Unenclosed 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
Total		0.0633	0.5752	0.4831	3.4500e-003		0.0437	0.0437		0.0437	0.0437	0.0000	626.1379	626.1379	0.0120	0.0115	629.8587

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	993795	5.3600e-003	0.0487	0.0409	2.9000e-004		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	53.0327	53.0327	1.0200e-003	9.7000e-004	53.3478
Hospital	9.55139e+006	0.0515	0.4682	0.3933	2.8100e-003		0.0356	0.0356		0.0356	0.0356	0.0000	509.6983	509.6983	9.7700e-003	9.3400e-003	512.7272
Medical Office Building	1.1882e+006	6.4100e-003	0.0583	0.0489	3.5000e-004		4.4300e-003	4.4300e-003		4.4300e-003	4.4300e-003	0.0000	63.4069	63.4069	1.2200e-003	1.1600e-003	63.7837
Unenclosed 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
Total		0.0633	0.5752	0.4831	3.4500e-003		0.0437	0.0437		0.0437	0.0437	0.0000	626.1379	626.1379	0.0120	0.0115	629.8587

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	401797	128.0213	5.2900e-003	1.0900e-003	128.4793
Hospital	2.51444e+006	801.1550	0.0331	6.8400e-003	804.0211
Medical Office Building	1.8187e+006	579.4768	0.0239	4.9500e-003	581.5499
Unenclosed Parking with Elevator	1.15003e+006	366.4248	0.0151	3.1300e-003	367.7357
Total		1,875.0779	0.0774	0.0160	1,881.7860

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	401797	128.0213	5.2900e-003	1.0900e-003	128.4793
Hospital	2.51444e+006	801.1550	0.0331	6.8400e-003	804.0211
Medical Office Building	1.8187e+006	579.4768	0.0239	4.9500e-003	581.5499
Unenclosed Parking with Elevator	1.15003e+006	366.4248	0.0151	3.1300e-003	367.7357
Total		1,875.0779	0.0774	0.0160	1,881.7860

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.4198	2.1000e-004	0.0232	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0451	0.0451	1.2000e-004	0.0000	0.0481
Unmitigated	1.4198	2.1000e-004	0.0232	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0451	0.0451	1.2000e-004	0.0000	0.0481

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	0.1641					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2535					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1300e-003	2.1000e-004	0.0232	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0451	0.0451	1.2000e-004	0.0000	0.0481
Total	1.4197	2.1000e-004	0.0232	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0451	0.0451	1.2000e-004	0.0000	0.0481

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1641					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2535					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1300e-003	2.1000e-004	0.0232	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0451	0.0451	1.2000e-004	0.0000	0.0481
Total	1.4197	2.1000e-004	0.0232	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0451	0.0451	1.2000e-004	0.0000	0.0481

7.0 Water Detail

7.1 Mitigation Measures Water

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

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	191.6734	1.2385	0.0306	231.7569
Unmitigated	235.3471	1.5480	0.0382	285.4363

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	10.9959 / 0	49.1081	0.3602	8.8500e-003	60.7501
Hospital	19.9188 / 3.79405	102.3883	0.6530	0.0162	123.5253
Medical Office Building	16.3125 / 3.10714	83.8508	0.5348	0.0132	101.1610
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		235.3471	1.5480	0.0382	285.4363

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	8.79675 / 0	39.2865	0.2882	7.0800e-003	48.6001
Hospital	15.935 / 3.56262	83.7774	0.5225	0.0129	100.6938
Medical Office Building	13.05 / 2.9176	68.6095	0.4279	0.0106	82.4631
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		191.6734	1.2385	0.0306	231.7569

8.0 Waste Detail

8.1 Mitigation Measures Waste

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	644.9733	38.1168	0.0000	1,597.894 1
Unmitigated	644.9733	38.1168	0.0000	1,597.894 1

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	58.96	11.9684	0.7073	0.0000	29.6511
Hospital	1714.39	348.0057	20.5666	0.0000	862.1693
Medical Office Building	1404	284.9993	16.8430	0.0000	706.0737
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		644.9733	38.1168	0.0000	1,597.894 1

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	58.96	11.9684	0.7073	0.0000	29.6511
Hospital	1714.39	348.0057	20.5666	0.0000	862.1693
Medical Office Building	1404	284.9993	16.8430	0.0000	706.0737
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		644.9733	38.1168	0.0000	1,597.8941

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Annual

Equipment Type	Number
----------------	--------

11.0 Vegetation

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

Hoag Hospital Expansion Project - Phase 1
South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	158.74	1000sqft	3.64	158,740.00	0
Medical Office Building	130.00	1000sqft	2.98	130,000.00	0
General Light Industry	47.55	1000sqft	1.09	47,550.00	0
Unenclosed Parking with Elevator	1,482.00	Space	13.34	592,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

Project Characteristics -

Land Use - Phase 1: Hospital and ancillary buildings 158,740 sf. Two 5-story parking structures (1) 716 stall, (2) 766. Utility Plant 47,550 sf. Hospital support services 130,000 sf.

Construction Phase - Phase one duration 48 months. Start 2021, completion 2025. Construction phases extended to match Phase 1 schedule.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition - Demolition of existing 3,260 sf structure, parking lot, and landscaping for haul away. Estimated 500 tons of material.

Grading -

Vehicle Trips -

Energy Use -

Sequestration -

Construction Off-road Equipment Mitigation - Fugitive dust emissions controlled by watering on-site at least 3 times daily per SCAQMD Rule 403. All off-road equipment over 50 HP will utilize Tier 2 engines.

Area Mitigation - Low VOC architectural coatings per SCAQMD Rule 1113.

Energy Mitigation -

Water Mitigation - Low-flow water fixtures and irrigation systems will be implemented to meet state water reduction measures.

Waste Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	20.00	150.00

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

tblConstructionPhase	NumDays	370.00	620.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	35.00	90.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	PhaseEndDate	4/26/2023	7/9/2025
tblConstructionPhase	PhaseEndDate	3/1/2023	7/24/2024
tblConstructionPhase	PhaseEndDate	7/28/2021	8/11/2021
tblConstructionPhase	PhaseEndDate	9/29/2021	3/9/2022
tblConstructionPhase	PhaseEndDate	3/29/2023	12/11/2024
tblConstructionPhase	PhaseEndDate	8/11/2021	11/3/2021
tblConstructionPhase	PhaseStartDate	3/30/2023	12/12/2024
tblConstructionPhase	PhaseStartDate	9/30/2021	3/10/2022
tblConstructionPhase	PhaseStartDate	8/12/2021	11/4/2021
tblConstructionPhase	PhaseStartDate	3/2/2023	7/25/2024
tblConstructionPhase	PhaseStartDate	7/29/2021	8/12/2021

2.0 Emissions Summary

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	4.2749	46.4544	31.6294	0.0642	18.2675	2.0460	20.3134	9.9840	1.8823	11.8663	0.0000	6,228.423 1	6,228.423 1	1.9488	0.0000	6,277.142 3
2022	3.7033	38.8928	32.2445	0.1037	8.8969	1.6365	10.5334	3.6558	1.5056	5.1614	0.0000	10,486.38 10	10,486.38 10	1.9496	0.0000	10,510.25 72
2023	3.2032	25.6138	30.8400	0.1010	5.0077	0.7399	5.7477	1.3501	0.6959	2.0460	0.0000	10,217.07 50	10,217.07 50	0.9129	0.0000	10,239.89 77
2024	22.3141	24.5737	29.9098	0.0996	5.0078	0.6530	5.6607	1.3501	0.6138	1.9640	0.0000	10,080.85 63	10,080.85 63	0.8989	0.0000	10,103.32 91
2025	22.2916	1.2794	3.8128	9.8600e-003	0.8048	0.0570	0.8618	0.2134	0.0565	0.2700	0.0000	968.7295	968.7295	0.0300	0.0000	969.4792
Maximum	22.3141	46.4544	32.2445	0.1037	18.2675	2.0460	20.3134	9.9840	1.8823	11.8663	0.0000	10,486.38 10	10,486.38 10	1.9496	0.0000	10,510.25 72

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	7.7848	1.6800e-003	0.1852	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3979	0.3979	1.0400e-003		0.4238
Energy	0.3467	3.1516	2.6473	0.0189		0.2395	0.2395		0.2395	0.2395		3,781.9116	3,781.9116	0.0725	0.0693	3,804.3856
Mobile	9.6281	42.4580	123.4090	0.5110	46.2956	0.3592	46.6548	12.3830	0.3336	12.7167		52,132.9120	52,132.9120	2.2100		52,188.1629
Total	17.7596	45.6113	126.2415	0.5299	46.2956	0.5994	46.8950	12.3830	0.5738	12.9569		55,915.2216	55,915.2216	2.2836	0.0693	55,992.9723

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	7.7848	1.6800e-003	0.1852	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3979	0.3979	1.0400e-003		0.4238
Energy	0.3467	3.1516	2.6473	0.0189		0.2395	0.2395		0.2395	0.2395		3,781.9116	3,781.9116	0.0725	0.0693	3,804.3856
Mobile	9.6281	42.4580	123.4090	0.5110	46.2956	0.3592	46.6548	12.3830	0.3336	12.7167		52,132.9120	52,132.9120	2.2100		52,188.1629
Total	17.7596	45.6113	126.2415	0.5299	46.2956	0.5994	46.8950	12.3830	0.5738	12.9569		55,915.2216	55,915.2216	2.2836	0.0693	55,992.9723

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2021	8/11/2021	5	30	
2	Site Preparation	Site Preparation	8/12/2021	11/3/2021	5	60	
3	Grading	Grading	11/4/2021	3/9/2022	5	90	
4	Building Construction	Building Construction	3/10/2022	7/24/2024	5	620	
5	Paving	Paving	7/25/2024	12/11/2024	5	100	
6	Architectural Coating	Architectural Coating	12/12/2024	7/9/2025	5	150	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 225

Acres of Paving: 13.34

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 504,435; Non-Residential Outdoor: 168,145; Striped Parking Area: 35,568 (Architectural Coating – sqft)

OffRoad Equipment

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

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

Trips and VMT

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	49.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	361.00	152.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	72.00	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					0.3567	0.0000	0.3567	0.0540	0.0000	0.0540			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.3567	1.5513	1.9080	0.0540	1.4411	1.4951		3,747.9449	3,747.9449	1.0549		3,774.3174

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.0124	0.4235	0.0936	1.2500e-003	0.0285	1.3200e-003	0.0299	7.8200e-003	1.2600e-003	9.0800e-003		136.0997	136.0997	9.5900e-003		136.3395
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	0.0628	0.0410	0.5632	1.6700e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		166.0347	166.0347	4.4800e-003		166.1466
Total	0.0752	0.4644	0.6568	2.9200e-003	0.1962	2.5600e-003	0.1988	0.0523	2.4000e-003	0.0547		302.1345	302.1345	0.0141		302.4861

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					0.1391	0.0000	0.1391	0.0211	0.0000	0.0211			0.0000			0.0000
Off-Road	1.2617	32.6638	24.6739	0.0388		0.9135	0.9135		0.9135	0.9135	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	1.2617	32.6638	24.6739	0.0388	0.1391	0.9135	1.0526	0.0211	0.9135	0.9346	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.0124	0.4235	0.0936	1.2500e-003	0.0285	1.3200e-003	0.0299	7.8200e-003	1.2600e-003	9.0800e-003		136.0997	136.0997	9.5900e-003		136.3395
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	0.0628	0.0410	0.5632	1.6700e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		166.0347	166.0347	4.4800e-003		166.1466
Total	0.0752	0.4644	0.6568	2.9200e-003	0.1962	2.5600e-003	0.1988	0.0523	2.4000e-003	0.0547		302.1345	302.1345	0.0141		302.4861

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

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

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.0753	0.0491	0.6758	2.0000e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		199.2417	199.2417	5.3700e-003		199.3759
Total	0.0753	0.0491	0.6758	2.0000e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		199.2417	199.2417	5.3700e-003		199.3759

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	1.2097	33.7214	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	1.2097	33.7214	22.9600	0.0380	7.0458	0.9462	7.9920	3.8730	0.9462	4.8191	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.0753	0.0491	0.6758	2.0000e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		199.2417	199.2417	5.3700e-003		199.3759
Total	0.0753	0.0491	0.6758	2.0000e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		199.2417	199.2417	5.3700e-003		199.3759

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230		6,007.0434	6,007.0434	1.9428		6,055.6134

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.0000	0.0000	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	0.0837	0.0546	0.7509	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.3797	221.3797	5.9700e-003		221.5288
Total	0.0837	0.0546	0.7509	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.3797	221.3797	5.9700e-003		221.5288

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	1.8106	51.2386	36.7226	0.0620		1.3333	1.3333		1.3333	1.3333	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	1.8106	51.2386	36.7226	0.0620	3.3826	1.3333	4.7159	1.4026	1.3333	2.7360	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.0000	0.0000	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	0.0837	0.0546	0.7509	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.3797	221.3797	5.9700e-003		221.5288
Total	0.0837	0.0546	0.7509	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.3797	221.3797	5.9700e-003		221.5288

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	8.6733	1.6349	10.3082	3.5965	1.5041	5.1006		6,011.4105	6,011.4105	1.9442		6,060.0158

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0785	0.0493	0.6944	2.1400e-003	0.2236	1.6100e-003	0.2252	0.0593	1.4800e-003	0.0608		213.4526	213.4526	5.3900e-003		213.5875
Total	0.0785	0.0493	0.6944	2.1400e-003	0.2236	1.6100e-003	0.2252	0.0593	1.4800e-003	0.0608		213.4526	213.4526	5.3900e-003		213.5875

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	1.8106	51.2386	36.7226	0.0621		1.3333	1.3333		1.3333	1.3333	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	1.8106	51.2386	36.7226	0.0621	3.3826	1.3333	4.7159	1.4026	1.3333	2.7360	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0785	0.0493	0.6944	2.1400e-003	0.2236	1.6100e-003	0.2252	0.0593	1.4800e-003	0.0608		213.4526	213.4526	5.3900e-003		213.5875
Total	0.0785	0.0493	0.6944	2.1400e-003	0.2236	1.6100e-003	0.2252	0.0593	1.4800e-003	0.0608		213.4526	213.4526	5.3900e-003		213.5875

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

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.4013	13.8265	3.3466	0.0381	0.9726	0.0259	0.9985	0.2800	0.0247	0.3047		4,079.2275	4,079.2275	0.2457		4,085.3709
Worker	1.4173	0.8902	12.5345	0.0387	4.0351	0.0290	4.0641	1.0701	0.0267	1.0969		3,852.8200	3,852.8200	0.0974		3,855.2540
Total	1.8186	14.7167	15.8811	0.0767	5.0077	0.0549	5.0626	1.3501	0.0515	1.4016		7,932.0474	7,932.0474	0.3431		7,940.6249

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	1.2517	23.3270	18.0727	0.0269		0.8652	0.8652		0.8652	0.8652	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.2517	23.3270	18.0727	0.0269		0.8652	0.8652		0.8652	0.8652	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.4013	13.8265	3.3466	0.0381	0.9726	0.0259	0.9985	0.2800	0.0247	0.3047		4,079.2275	4,079.2275	0.2457		4,085.3709
Worker	1.4173	0.8902	12.5345	0.0387	4.0351	0.0290	4.0641	1.0701	0.0267	1.0969		3,852.8200	3,852.8200	0.0974		3,855.2540
Total	1.8186	14.7167	15.8811	0.0767	5.0077	0.0549	5.0626	1.3501	0.0515	1.4016		7,932.0474	7,932.0474	0.3431		7,940.6249

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

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.2977	10.4234	3.0209	0.0369	0.9726	0.0119	0.9846	0.2800	0.0114	0.2914		3,952.5543	3,952.5543	0.2172		3,957.9851
Worker	1.3327	0.8056	11.5751	0.0372	4.0351	0.0283	4.0634	1.0701	0.0260	1.0962		3,709.3108	3,709.3108	0.0878		3,711.5065
Total	1.6304	11.2290	14.5960	0.0741	5.0077	0.0402	5.0479	1.3501	0.0374	1.3876		7,661.8651	7,661.8651	0.3051		7,669.4916

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	1.2295	23.2846	18.0549	0.0269		0.8565	0.8565		0.8565	0.8565	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.2295	23.2846	18.0549	0.0269		0.8565	0.8565		0.8565	0.8565	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.2977	10.4234	3.0209	0.0369	0.9726	0.0119	0.9846	0.2800	0.0114	0.2914		3,952.5543	3,952.5543	0.2172		3,957.9851
Worker	1.3327	0.8056	11.5751	0.0372	4.0351	0.0283	4.0634	1.0701	0.0260	1.0962		3,709.3108	3,709.3108	0.0878		3,711.5065
Total	1.6304	11.2290	14.5960	0.0741	5.0077	0.0402	5.0479	1.3501	0.0374	1.3876		7,661.8651	7,661.8651	0.3051		7,669.4916

3.5 Building Construction - 2024

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

3.5 Building Construction - 2024

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	0.2912	10.3958	2.9351	0.0367	0.9726	0.0118	0.9844	0.2800	0.0113	0.2913		3,938.0624	3,938.0624	0.2141		3,943.4142
Worker	1.2614	0.7341	10.8079	0.0360	4.0351	0.0279	4.0630	1.0701	0.0257	1.0958		3,587.0949	3,587.0949	0.0805		3,589.1073
Total	1.5526	11.1300	13.7429	0.0727	5.0078	0.0397	5.0474	1.3501	0.0369	1.3871		7,525.1574	7,525.1574	0.2946		7,532.5215

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	1.2108	23.2448	18.0406	0.0270		0.8488	0.8488		0.8488	0.8488	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.2108	23.2448	18.0406	0.0270		0.8488	0.8488		0.8488	0.8488	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

3.5 Building Construction - 2024

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	0.2912	10.3958	2.9351	0.0367	0.9726	0.0118	0.9844	0.2800	0.0113	0.2913		3,938.0624	3,938.0624	0.2141		3,943.4142
Worker	1.2614	0.7341	10.8079	0.0360	4.0351	0.0279	4.0630	1.0701	0.0257	1.0958		3,587.0949	3,587.0949	0.0805		3,589.1073
Total	1.5526	11.1300	13.7429	0.0727	5.0078	0.0397	5.0474	1.3501	0.0369	1.3871		7,525.1574	7,525.1574	0.2946		7,532.5215

3.6 Paving - 2024

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

3.6 Paving - 2024

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	0.0524	0.0305	0.4491	1.4900e-003	0.1677	1.1600e-003	0.1688	0.0445	1.0700e-003	0.0455		149.0483	149.0483	3.3400e-003		149.1319
Total	0.0524	0.0305	0.4491	1.4900e-003	0.1677	1.1600e-003	0.1688	0.0445	1.0700e-003	0.0455		149.0483	149.0483	3.3400e-003		149.1319

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	0.9311	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9311	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

3.6 Paving - 2024

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	0.0524	0.0305	0.4491	1.4900e-003	0.1677	1.1600e-003	0.1688	0.0445	1.0700e-003	0.0455		149.0483	149.0483	3.3400e-003		149.1319
Total	0.0524	0.0305	0.4491	1.4900e-003	0.1677	1.1600e-003	0.1688	0.0445	1.0700e-003	0.0455		149.0483	149.0483	3.3400e-003		149.1319

3.7 Architectural Coating - 2024

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	21.8818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	22.0625	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

3.7 Architectural Coating - 2024

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	0.2516	0.1464	2.1556	7.1800e-003	0.8048	5.5600e-003	0.8104	0.2134	5.1200e-003	0.2186		715.4317	715.4317	0.0161		715.8330
Total	0.2516	0.1464	2.1556	7.1800e-003	0.8048	5.5600e-003	0.8104	0.2134	5.1200e-003	0.2186		715.4317	715.4317	0.0161		715.8330

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	21.8818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0159		281.8443
Total	21.9957	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0159		281.8443

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

3.7 Architectural Coating - 2024

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	0.2516	0.1464	2.1556	7.1800e-003	0.8048	5.5600e-003	0.8104	0.2134	5.1200e-003	0.2186		715.4317	715.4317	0.0161		715.8330
Total	0.2516	0.1464	2.1556	7.1800e-003	0.8048	5.5600e-003	0.8104	0.2134	5.1200e-003	0.2186		715.4317	715.4317	0.0161		715.8330

3.7 Architectural Coating - 2025

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	21.8818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	22.0526	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

3.7 Architectural Coating - 2025

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	0.2390	0.1339	2.0036	6.8900e-003	0.8048	5.4500e-003	0.8102	0.2134	5.0200e-003	0.2185		687.2814	687.2814	0.0146		687.6473
Total	0.2390	0.1339	2.0036	6.8900e-003	0.8048	5.4500e-003	0.8102	0.2134	5.0200e-003	0.2185		687.2814	687.2814	0.0146		687.6473

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	21.8818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0154		281.8319
Total	21.9957	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0154		281.8319

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

3.7 Architectural Coating - 2025

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	0.2390	0.1339	2.0036	6.8900e-003	0.8048	5.4500e-003	0.8102	0.2134	5.0200e-003	0.2185		687.2814	687.2814	0.0146		687.6473
Total	0.2390	0.1339	2.0036	6.8900e-003	0.8048	5.4500e-003	0.8102	0.2134	5.0200e-003	0.2185		687.2814	687.2814	0.0146		687.6473

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	9.6281	42.4580	123.4090	0.5110	46.2956	0.3592	46.6548	12.3830	0.3336	12.7167		52,132.91 20	52,132.91 20	2.2100		52,188.16 29
Unmitigated	9.6281	42.4580	123.4090	0.5110	46.2956	0.3592	46.6548	12.3830	0.3336	12.7167		52,132.91 20	52,132.91 20	2.2100		52,188.16 29

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	331.42	62.77	32.33	1,108,472	1,108,472
Hospital	2,098.54	1,615.97	1414.37	7,489,538	7,489,538
Medical Office Building	4,696.90	1,164.80	201.50	9,208,494	9,208,494
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	7,126.87	2,843.54	1,648.21	17,806,504	17,806,504

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
Hospital	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
Medical Office Building	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
Unenclosed Parking with Elevator	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3467	3.1516	2.6473	0.0189		0.2395	0.2395		0.2395	0.2395		3,781.9116	3,781.9116	0.0725	0.0693	3,804.3856
NaturalGas Unmitigated	0.3467	3.1516	2.6473	0.0189		0.2395	0.2395		0.2395	0.2395		3,781.9116	3,781.9116	0.0725	0.0693	3,804.3856

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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					
General Light Industry	2722.73	0.0294	0.2669	0.2242	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.3207	320.3207	6.1400e-003	5.8700e-003	322.2242
Hospital	26168.2	0.2822	2.5655	2.1550	0.0154		0.1950	0.1950		0.1950	0.1950		3,078.6094	3,078.6094	0.0590	0.0564	3,096.9041
Medical Office Building	3255.34	0.0351	0.3192	0.2681	1.9100e-003		0.0243	0.0243		0.0243	0.0243		382.9815	382.9815	7.3400e-003	7.0200e-003	385.2573
Unenclosed 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
Total		0.3467	3.1516	2.6473	0.0189		0.2395	0.2395		0.2395	0.2395		3,781.9116	3,781.9116	0.0725	0.0693	3,804.3856

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	2.72273	0.0294	0.2669	0.2242	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.3207	320.3207	6.1400e-003	5.8700e-003	322.2242
Hospital	26.1682	0.2822	2.5655	2.1550	0.0154		0.1950	0.1950		0.1950	0.1950		3,078.6094	3,078.6094	0.0590	0.0564	3,096.9041
Medical Office Building	3.25534	0.0351	0.3192	0.2681	1.9100e-003		0.0243	0.0243		0.0243	0.0243		382.9815	382.9815	7.3400e-003	7.0200e-003	385.2573
Unenclosed 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
Total		0.3467	3.1516	2.6473	0.0189		0.2395	0.2395		0.2395	0.2395		3,781.9116	3,781.9116	0.0725	0.0693	3,804.3856

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.7848	1.6800e-003	0.1852	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3979	0.3979	1.0400e-003		0.4238
Unmitigated	7.7848	1.6800e-003	0.1852	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3979	0.3979	1.0400e-003		0.4238

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	0.8993					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8685					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1852	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3979	0.3979	1.0400e-003		0.4238
Total	7.7848	1.6800e-003	0.1852	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3979	0.3979	1.0400e-003		0.4238

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.8993					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8685					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1852	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3979	0.3979	1.0400e-003		0.4238
Total	7.7848	1.6800e-003	0.1852	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3979	0.3979	1.0400e-003		0.4238

7.0 Water Detail

7.1 Mitigation Measures Water

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Summer

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
----------------	--------

11.0 Vegetation

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

Hoag Hospital Expansion Project - Phase 1
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	158.74	1000sqft	3.64	158,740.00	0
Medical Office Building	130.00	1000sqft	2.98	130,000.00	0
General Light Industry	47.55	1000sqft	1.09	47,550.00	0
Unenclosed Parking with Elevator	1,482.00	Space	13.34	592,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

Project Characteristics -

Land Use - Phase 1: Hospital and ancillary buildings 158,740 sf. Two 5-story parking structures (1) 716 stall, (2) 766. Utility Plant 47,550 sf. Hospital support services 130,000 sf.

Construction Phase - Phase one duration 48 months. Start 2021, completion 2025. Construction phases extended to match Phase 1 schedule.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition - Demolition of existing 3,260 sf structure, parking lot, and landscaping for haul away. Estimated 500 tons of material.

Grading -

Vehicle Trips -

Energy Use -

Sequestration -

Construction Off-road Equipment Mitigation - Fugitive dust emissions controlled by watering on-site at least 3 times daily per SCAQMD Rule 403. All off-road equipment over 50 HP will utilize Tier 2 engines.

Area Mitigation - Low VOC architectural coatings per SCAQMD Rule 1113.

Energy Mitigation -

Water Mitigation - Low-flow water fixtures and irrigation systems will be implemented to meet state water reduction measures.

Waste Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	20.00	150.00

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

tblConstructionPhase	NumDays	370.00	620.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	35.00	90.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	PhaseEndDate	4/26/2023	7/9/2025
tblConstructionPhase	PhaseEndDate	3/1/2023	7/24/2024
tblConstructionPhase	PhaseEndDate	7/28/2021	8/11/2021
tblConstructionPhase	PhaseEndDate	9/29/2021	3/9/2022
tblConstructionPhase	PhaseEndDate	3/29/2023	12/11/2024
tblConstructionPhase	PhaseEndDate	8/11/2021	11/3/2021
tblConstructionPhase	PhaseStartDate	3/30/2023	12/12/2024
tblConstructionPhase	PhaseStartDate	9/30/2021	3/10/2022
tblConstructionPhase	PhaseStartDate	8/12/2021	11/4/2021
tblConstructionPhase	PhaseStartDate	3/2/2023	7/25/2024
tblConstructionPhase	PhaseStartDate	7/29/2021	8/12/2021

2.0 Emissions Summary

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	4.2834	46.4598	31.5582	0.0641	18.2675	2.0460	20.3134	9.9840	1.8823	11.8663	0.0000	6,214.6737	6,214.6737	1.9484	0.0000	6,263.3833
2022	3.7116	38.8976	31.4106	0.1002	8.8969	1.6365	10.5334	3.6558	1.5056	5.1614	0.0000	10,135.4033	10,135.4033	1.9493	0.0000	10,159.5385
2023	3.3627	25.6362	29.9833	0.0977	5.0077	0.7405	5.7483	1.3501	0.6964	2.0466	0.0000	9,880.1979	9,880.1979	0.9203	0.0000	9,903.2054
2024	22.3421	24.5922	29.1036	0.0964	5.0078	0.6535	5.6613	1.3501	0.6144	1.9645	0.0000	9,752.3618	9,752.3618	0.9063	0.0000	9,775.0192
2025	22.3190	1.2924	3.6112	9.4300e-003	0.8048	0.0570	0.8618	0.2134	0.0565	0.2700	0.0000	925.9749	925.9749	0.0290	0.0000	926.6998
Maximum	22.3421	46.4598	31.5582	0.1002	18.2675	2.0460	20.3134	9.9840	1.8823	11.8663	0.0000	10,135.4033	10,135.4033	1.9493	0.0000	10,159.5385

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	7.7848	1.6800e-003	0.1852	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3979	0.3979	1.0400e-003		0.4238
Energy	0.3467	3.1516	2.6473	0.0189		0.2395	0.2395		0.2395	0.2395		3,781.9116	3,781.9116	0.0725	0.0693	3,804.3856
Mobile	9.2051	43.1974	116.0307	0.4849	46.2956	0.3607	46.6563	12.3830	0.3351	12.7181		49,514.7409	49,514.7409	2.2118		49,570.0353
Total	17.3365	46.3507	118.8632	0.5038	46.2956	0.6009	46.8965	12.3830	0.5753	12.9583		53,297.0505	53,297.0505	2.2853	0.0693	53,374.8447

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	7.7848	1.6800e-003	0.1852	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3979	0.3979	1.0400e-003		0.4238
Energy	0.3467	3.1516	2.6473	0.0189		0.2395	0.2395		0.2395	0.2395		3,781.9116	3,781.9116	0.0725	0.0693	3,804.3856
Mobile	9.2051	43.1974	116.0307	0.4849	46.2956	0.3607	46.6563	12.3830	0.3351	12.7181		49,514.7409	49,514.7409	2.2118		49,570.0353
Total	17.3365	46.3507	118.8632	0.5038	46.2956	0.6009	46.8965	12.3830	0.5753	12.9583		53,297.0505	53,297.0505	2.2853	0.0693	53,374.8447

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2021	8/11/2021	5	30	
2	Site Preparation	Site Preparation	8/12/2021	11/3/2021	5	60	
3	Grading	Grading	11/4/2021	3/9/2022	5	90	
4	Building Construction	Building Construction	3/10/2022	7/24/2024	5	620	
5	Paving	Paving	7/25/2024	12/11/2024	5	100	
6	Architectural Coating	Architectural Coating	12/12/2024	7/9/2025	5	150	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 225

Acres of Paving: 13.34

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 504,435; Non-Residential Outdoor: 168,145; Striped Parking Area: 35,568 (Architectural Coating – sqft)

OffRoad Equipment

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

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

Trips and VMT

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	49.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	361.00	152.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	72.00	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					0.3567	0.0000	0.3567	0.0540	0.0000	0.0540			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.3567	1.5513	1.9080	0.0540	1.4411	1.4951		3,747.9449	3,747.9449	1.0549		3,774.3174

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.0127	0.4287	0.0997	1.2300e-003	0.0285	1.3400e-003	0.0299	7.8200e-003	1.2800e-003	9.1000e-003		133.7629	133.7629	9.9500e-003		134.0117
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0692	0.0450	0.5098	1.5600e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		155.7227	155.7227	4.1900e-003		155.8274
Total	0.0819	0.4737	0.6095	2.7900e-003	0.1962	2.5800e-003	0.1988	0.0523	2.4200e-003	0.0547		289.4856	289.4856	0.0141		289.8390

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					0.1391	0.0000	0.1391	0.0211	0.0000	0.0211			0.0000			0.0000
Off-Road	1.2617	32.6638	24.6739	0.0388		0.9135	0.9135		0.9135	0.9135	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	1.2617	32.6638	24.6739	0.0388	0.1391	0.9135	1.0526	0.0211	0.9135	0.9346	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.0127	0.4287	0.0997	1.2300e-003	0.0285	1.3400e-003	0.0299	7.8200e-003	1.2800e-003	9.1000e-003		133.7629	133.7629	9.9500e-003		134.0117
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0692	0.0450	0.5098	1.5600e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		155.7227	155.7227	4.1900e-003		155.8274
Total	0.0819	0.4737	0.6095	2.7900e-003	0.1962	2.5800e-003	0.1988	0.0523	2.4200e-003	0.0547		289.4856	289.4856	0.0141		289.8390

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

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

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.0830	0.0540	0.6118	1.8800e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		186.8672	186.8672	5.0300e-003		186.9929
Total	0.0830	0.0540	0.6118	1.8800e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		186.8672	186.8672	5.0300e-003		186.9929

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	1.2097	33.7214	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	1.2097	33.7214	22.9600	0.0380	7.0458	0.9462	7.9920	3.8730	0.9462	4.8191	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.0830	0.0540	0.6118	1.8800e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		186.8672	186.8672	5.0300e-003		186.9929
Total	0.0830	0.0540	0.6118	1.8800e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		186.8672	186.8672	5.0300e-003		186.9929

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230		6,007.0434	6,007.0434	1.9428		6,055.6134

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.0000	0.0000	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	0.0922	0.0600	0.6797	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.6302	207.6302	5.5800e-003		207.7698
Total	0.0922	0.0600	0.6797	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.6302	207.6302	5.5800e-003		207.7698

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	1.8106	51.2386	36.7226	0.0620		1.3333	1.3333		1.3333	1.3333	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	1.8106	51.2386	36.7226	0.0620	3.3826	1.3333	4.7159	1.4026	1.3333	2.7360	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.0000	0.0000	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	0.0922	0.0600	0.6797	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.6302	207.6302	5.5800e-003		207.7698
Total	0.0922	0.0600	0.6797	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.6302	207.6302	5.5800e-003		207.7698

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	8.6733	1.6349	10.3082	3.5965	1.5041	5.1006		6,011.4105	6,011.4105	1.9442		6,060.0158

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0868	0.0542	0.6275	2.0100e-003	0.2236	1.6100e-003	0.2252	0.0593	1.4800e-003	0.0608		200.1958	200.1958	5.0400e-003		200.3219
Total	0.0868	0.0542	0.6275	2.0100e-003	0.2236	1.6100e-003	0.2252	0.0593	1.4800e-003	0.0608		200.1958	200.1958	5.0400e-003		200.3219

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	1.8106	51.2386	36.7226	0.0621		1.3333	1.3333		1.3333	1.3333	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	1.8106	51.2386	36.7226	0.0621	3.3826	1.3333	4.7159	1.4026	1.3333	2.7360	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0868	0.0542	0.6275	2.0100e-003	0.2236	1.6100e-003	0.2252	0.0593	1.4800e-003	0.0608		200.1958	200.1958	5.0400e-003		200.3219
Total	0.0868	0.0542	0.6275	2.0100e-003	0.2236	1.6100e-003	0.2252	0.0593	1.4800e-003	0.0608		200.1958	200.1958	5.0400e-003		200.3219

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

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.4217	13.7840	3.7213	0.0371	0.9726	0.0267	0.9993	0.2800	0.0255	0.3055		3,967.5361	3,967.5361	0.2624		3,974.0966
Worker	1.5658	0.9774	11.3260	0.0363	4.0351	0.0290	4.0641	1.0701	0.0267	1.0969		3,613.5336	3,613.5336	0.0910		3,615.8096
Total	1.9875	14.7614	15.0472	0.0733	5.0077	0.0557	5.0635	1.3501	0.0523	1.4024		7,581.0697	7,581.0697	0.3535		7,589.9062

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	1.2517	23.3270	18.0727	0.0269		0.8652	0.8652		0.8652	0.8652	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.2517	23.3270	18.0727	0.0269		0.8652	0.8652		0.8652	0.8652	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.4217	13.7840	3.7213	0.0371	0.9726	0.0267	0.9993	0.2800	0.0255	0.3055		3,967.5361	3,967.5361	0.2624		3,974.0966
Worker	1.5658	0.9774	11.3260	0.0363	4.0351	0.0290	4.0641	1.0701	0.0267	1.0969		3,613.5336	3,613.5336	0.0910		3,615.8096
Total	1.9875	14.7614	15.0472	0.0733	5.0077	0.0557	5.0635	1.3501	0.0523	1.4024		7,581.0697	7,581.0697	0.3535		7,589.9062

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

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.3131	10.3672	3.3001	0.0359	0.9726	0.0125	0.9852	0.2800	0.0120	0.2920		3,846.0578	3,846.0578	0.2304		3,851.8183
Worker	1.4768	0.8842	10.4392	0.0349	4.0351	0.0283	4.0634	1.0701	0.0260	1.0962		3,478.9302	3,478.9302	0.0820		3,480.9811
Total	1.7899	11.2514	13.7393	0.0708	5.0077	0.0408	5.0485	1.3501	0.0380	1.3881		7,324.9880	7,324.9880	0.3125		7,332.7994

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	1.2295	23.2846	18.0549	0.0269		0.8565	0.8565		0.8565	0.8565	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.2295	23.2846	18.0549	0.0269		0.8565	0.8565		0.8565	0.8565	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	0.3131	10.3672	3.3001	0.0359	0.9726	0.0125	0.9852	0.2800	0.0120	0.2920		3,846.0578	3,846.0578	0.2304		3,851.8183
Worker	1.4768	0.8842	10.4392	0.0349	4.0351	0.0283	4.0634	1.0701	0.0260	1.0962		3,478.9302	3,478.9302	0.0820		3,480.9811
Total	1.7899	11.2514	13.7393	0.0708	5.0077	0.0408	5.0485	1.3501	0.0380	1.3881		7,324.9880	7,324.9880	0.3125		7,332.7994

3.5 Building Construction - 2024

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

3.5 Building Construction - 2024

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	0.3061	10.3429	3.2062	0.0357	0.9726	0.0124	0.9850	0.2800	0.0118	0.2918		3,832.7115	3,832.7115	0.2269		3,838.3827
Worker	1.4019	0.8055	9.7306	0.0337	4.0351	0.0279	4.0630	1.0701	0.0257	1.0958		3,363.9515	3,363.9515	0.0751		3,365.8288
Total	1.7080	11.1484	12.9368	0.0695	5.0078	0.0402	5.0480	1.3501	0.0375	1.3876		7,196.6629	7,196.6629	0.3019		7,204.2115

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	1.2108	23.2448	18.0406	0.0270		0.8488	0.8488		0.8488	0.8488	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.2108	23.2448	18.0406	0.0270		0.8488	0.8488		0.8488	0.8488	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

3.5 Building Construction - 2024

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	0.3061	10.3429	3.2062	0.0357	0.9726	0.0124	0.9850	0.2800	0.0118	0.2918		3,832.7115	3,832.7115	0.2269		3,838.3827
Worker	1.4019	0.8055	9.7306	0.0337	4.0351	0.0279	4.0630	1.0701	0.0257	1.0958		3,363.9515	3,363.9515	0.0751		3,365.8288
Total	1.7080	11.1484	12.9368	0.0695	5.0078	0.0402	5.0480	1.3501	0.0375	1.3876		7,196.6629	7,196.6629	0.3019		7,204.2115

3.6 Paving - 2024

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

3.6 Paving - 2024

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	0.0583	0.0335	0.4043	1.4000e-003	0.1677	1.1600e-003	0.1688	0.0445	1.0700e-003	0.0455		139.7764	139.7764	3.1200e-003		139.8544
Total	0.0583	0.0335	0.4043	1.4000e-003	0.1677	1.1600e-003	0.1688	0.0445	1.0700e-003	0.0455		139.7764	139.7764	3.1200e-003		139.8544

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	0.9311	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9311	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

3.6 Paving - 2024

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	0.0583	0.0335	0.4043	1.4000e-003	0.1677	1.1600e-003	0.1688	0.0445	1.0700e-003	0.0455		139.7764	139.7764	3.1200e-003		139.8544
Total	0.0583	0.0335	0.4043	1.4000e-003	0.1677	1.1600e-003	0.1688	0.0445	1.0700e-003	0.0455		139.7764	139.7764	3.1200e-003		139.8544

3.7 Architectural Coating - 2024

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	21.8818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	22.0625	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

3.7 Architectural Coating - 2024

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	0.2796	0.1606	1.9407	6.7300e-003	0.8048	5.5600e-003	0.8104	0.2134	5.1200e-003	0.2186		670.9266	670.9266	0.0150		671.3010
Total	0.2796	0.1606	1.9407	6.7300e-003	0.8048	5.5600e-003	0.8104	0.2134	5.1200e-003	0.2186		670.9266	670.9266	0.0150		671.3010

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	21.8818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0159		281.8443
Total	21.9957	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0159		281.8443

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

3.7 Architectural Coating - 2024

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	0.2796	0.1606	1.9407	6.7300e-003	0.8048	5.5600e-003	0.8104	0.2134	5.1200e-003	0.2186		670.9266	670.9266	0.0150		671.3010
Total	0.2796	0.1606	1.9407	6.7300e-003	0.8048	5.5600e-003	0.8104	0.2134	5.1200e-003	0.2186		670.9266	670.9266	0.0150		671.3010

3.7 Architectural Coating - 2025

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	21.8818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	22.0526	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

3.7 Architectural Coating - 2025

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	0.2664	0.1469	1.8021	6.4600e-003	0.8048	5.4500e-003	0.8102	0.2134	5.0200e-003	0.2185		644.5269	644.5269	0.0136		644.8680
Total	0.2664	0.1469	1.8021	6.4600e-003	0.8048	5.4500e-003	0.8102	0.2134	5.0200e-003	0.2185		644.5269	644.5269	0.0136		644.8680

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	21.8818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0154		281.8319
Total	21.9957	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0154		281.8319

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

3.7 Architectural Coating - 2025

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	0.2664	0.1469	1.8021	6.4600e-003	0.8048	5.4500e-003	0.8102	0.2134	5.0200e-003	0.2185		644.5269	644.5269	0.0136		644.8680
Total	0.2664	0.1469	1.8021	6.4600e-003	0.8048	5.4500e-003	0.8102	0.2134	5.0200e-003	0.2185		644.5269	644.5269	0.0136		644.8680

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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	9.2051	43.1974	116.0307	0.4849	46.2956	0.3607	46.6563	12.3830	0.3351	12.7181		49,514.7409	49,514.7409	2.2118		49,570.0353
Unmitigated	9.2051	43.1974	116.0307	0.4849	46.2956	0.3607	46.6563	12.3830	0.3351	12.7181		49,514.7409	49,514.7409	2.2118		49,570.0353

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	331.42	62.77	32.33	1,108,472	1,108,472
Hospital	2,098.54	1,615.97	1414.37	7,489,538	7,489,538
Medical Office Building	4,696.90	1,164.80	201.50	9,208,494	9,208,494
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	7,126.87	2,843.54	1,648.21	17,806,504	17,806,504

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
Hospital	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
Medical Office Building	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
Unenclosed Parking with Elevator	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3467	3.1516	2.6473	0.0189		0.2395	0.2395		0.2395	0.2395		3,781.9116	3,781.9116	0.0725	0.0693	3,804.3856
NaturalGas Unmitigated	0.3467	3.1516	2.6473	0.0189		0.2395	0.2395		0.2395	0.2395		3,781.9116	3,781.9116	0.0725	0.0693	3,804.3856

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, 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					
General Light Industry	2722.73	0.0294	0.2669	0.2242	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.3207	320.3207	6.1400e-003	5.8700e-003	322.2242
Hospital	26168.2	0.2822	2.5655	2.1550	0.0154		0.1950	0.1950		0.1950	0.1950		3,078.6094	3,078.6094	0.0590	0.0564	3,096.9041
Medical Office Building	3255.34	0.0351	0.3192	0.2681	1.9100e-003		0.0243	0.0243		0.0243	0.0243		382.9815	382.9815	7.3400e-003	7.0200e-003	385.2573
Unenclosed 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
Total		0.3467	3.1516	2.6473	0.0189		0.2395	0.2395		0.2395	0.2395		3,781.9116	3,781.9116	0.0725	0.0693	3,804.3856

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	2.72273	0.0294	0.2669	0.2242	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.3207	320.3207	6.1400e-003	5.8700e-003	322.2242
Hospital	26.1682	0.2822	2.5655	2.1550	0.0154		0.1950	0.1950		0.1950	0.1950		3,078.6094	3,078.6094	0.0590	0.0564	3,096.9041
Medical Office Building	3.25534	0.0351	0.3192	0.2681	1.9100e-003		0.0243	0.0243		0.0243	0.0243		382.9815	382.9815	7.3400e-003	7.0200e-003	385.2573
Unenclosed 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
Total		0.3467	3.1516	2.6473	0.0189		0.2395	0.2395		0.2395	0.2395		3,781.9116	3,781.9116	0.0725	0.0693	3,804.3856

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.7848	1.6800e-003	0.1852	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3979	0.3979	1.0400e-003		0.4238
Unmitigated	7.7848	1.6800e-003	0.1852	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3979	0.3979	1.0400e-003		0.4238

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	0.8993					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8685					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1852	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3979	0.3979	1.0400e-003		0.4238
Total	7.7848	1.6800e-003	0.1852	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3979	0.3979	1.0400e-003		0.4238

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.8993					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8685					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1852	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3979	0.3979	1.0400e-003		0.4238
Total	7.7848	1.6800e-003	0.1852	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3979	0.3979	1.0400e-003		0.4238

7.0 Water Detail

7.1 Mitigation Measures Water

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Hoag Hospital Expansion Project - Phase 1 - South Coast Air Basin, Winter

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

OPERATIONAL EMISSIONS PHASE 1

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

Hoag Hospital Expansion Project - Phase 1 Operational
South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	533.96	1000sqft	12.26	533,961.00	0
Medical Office Building	115.76	1000sqft	2.66	115,762.00	0
General Light Industry	57.75	1000sqft	1.33	57,750.00	0
Enclosed Parking with Elevator	1,482.00	Space	13.34	592,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

Project Characteristics -

Land Use - Phase 1 plus existing: Net new 533,961 sf. Two 5-story parking structure (1) 716 stall, (2) 766. Utility Plant 57,750 sf. Existing Rhodes MOB 115,762 sf.

Construction Phase - Phase 1 operational beginning 2025.

Off-road Equipment -

Off-road Equipment - Phase 1 operational. No construction equipment.

Trips and VMT - Phase 1 operational. No construction workers.

Demolition - Demolition of existing parking lot and landscaping and haul away. Estimated 500 tons of material.

Grading -

Vehicle Trips - Hospital 10.72 ADT. Medical office buildings 34.80 ADT.

Energy Use -

Sequestration -

Construction Off-road Equipment Mitigation -

Area Mitigation - Low VOC architectural coatings per SCAQMD Rule 1113.

Energy Mitigation -

Water Mitigation - Low-flow water fixtures and irrigation systems will be implemented to meet state water reduction measures.

Waste Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblLandUse	LandUseSquareFeet	115,760.00	115,762.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	13.22	10.72
tblVehicleTrips	WD_TR	36.13	34.80

2.0 Emissions Summary

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2025	9-30-2025	0.2780	0.2780
		Highest	0.2780	0.2780

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.9335	2.5000e-004	0.0279	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.0543	0.0543	1.4000e-004	0.0000	0.0579
Energy	0.1855	1.6860	1.4162	0.0101		0.1281	0.1281		0.1281	0.1281	0.0000	6,308.5719	6,308.5719	0.2199	0.0719	6,335.4816
Mobile	2.0678	10.1963	28.3707	0.1200	11.1681	0.0873	11.2554	2.9918	0.0811	3.0729	0.0000	11,109.9237	11,109.9237	0.4803	0.0000	11,121.9316
Waste						0.0000	0.0000		0.0000	0.0000	1,438.9197	0.0000	1,438.9197	85.0377	0.0000	3,564.8627
Water						0.0000	0.0000		0.0000	0.0000	30.1017	448.6140	478.7156	3.1103	0.0768	579.3685
Total	5.1868	11.8825	29.8148	0.1301	11.1681	0.2155	11.3836	2.9918	0.2093	3.2011	1,469.0214	17,867.1640	19,336.1853	88.8483	0.1487	21,601.7023

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.9335	2.5000e-004	0.0279	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.0543	0.0543	1.4000e-004	0.0000	0.0579
Energy	0.1855	1.6860	1.4162	0.0101		0.1281	0.1281		0.1281	0.1281	0.0000	6,308.5719	6,308.5719	0.2199	0.0719	6,335.4816
Mobile	2.0678	10.1963	28.3707	0.1200	11.1681	0.0873	11.2554	2.9918	0.0811	3.0729	0.0000	11,109.9237	11,109.9237	0.4803	0.0000	11,121.9316
Waste						0.0000	0.0000		0.0000	0.0000	1,438.9197	0.0000	1,438.9197	85.0377	0.0000	3,564.8627
Water						0.0000	0.0000		0.0000	0.0000	24.0813	366.5321	390.6135	2.4885	0.0615	471.1631
Total	5.1868	11.8825	29.8148	0.1301	11.1681	0.2155	11.3836	2.9918	0.2093	3.2011	1,463.0010	17,785.0821	19,248.0832	88.2265	0.1334	21,493.4969

	ROG	NOx	CO	SO2	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	0.41	0.46	0.46	0.70	10.29	0.50

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	7/1/2025	7/28/2025	5	20	

Acres of Grading (Site Preparation Phase): 0

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

Acres of Grading (Grading Phase): 0

Acres of Paving: 13.34

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	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	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	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

3.2 Site Preparation - 2025

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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2523	0.1791	3.8000e-004		0.0109	0.0109		0.0100	0.0100	0.0000	33.4670	33.4670	0.0108	0.0000	33.7376
Total	0.0247	0.2523	0.1791	3.8000e-004	0.1807	0.0109	0.1915	0.0993	0.0100	0.1093	0.0000	33.4670	33.4670	0.0108	0.0000	33.7376

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	3.8000e-004	4.6300e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.4848	1.4848	3.0000e-005	0.0000	1.4856
Total	6.0000e-004	3.8000e-004	4.6300e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.4848	1.4848	3.0000e-005	0.0000	1.4856

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

3.2 Site Preparation - 2025

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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2523	0.1791	3.8000e-004		0.0109	0.0109		0.0100	0.0100	0.0000	33.4670	33.4670	0.0108	0.0000	33.7375
Total	0.0247	0.2523	0.1791	3.8000e-004	0.1807	0.0109	0.1915	0.0993	0.0100	0.1093	0.0000	33.4670	33.4670	0.0108	0.0000	33.7375

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	3.8000e-004	4.6300e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.4848	1.4848	3.0000e-005	0.0000	1.4856
Total	6.0000e-004	3.8000e-004	4.6300e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.4848	1.4848	3.0000e-005	0.0000	1.4856

4.0 Operational Detail - Mobile

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, 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	2.0678	10.1963	28.3707	0.1200	11.1681	0.0873	11.2554	2.9918	0.0811	3.0729	0.0000	11,109.9237	11,109.9237	0.4803	0.0000	11,121.9316
Unmitigated	2.0678	10.1963	28.3707	0.1200	11.1681	0.0873	11.2554	2.9918	0.0811	3.0729	0.0000	11,109.9237	11,109.9237	0.4803	0.0000	11,121.9316

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		
General Light Industry	0.00	0.00	0.00		
Hospital	5,724.06	5,435.72	4757.59	21,496,326	21,496,326
Medical Office Building	4,028.45	1,037.21	179.43	7,914,558	7,914,558
Total	9,752.51	6,472.93	4,937.02	29,410,884	29,410,884

4.3 Trip Type Information

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
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	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
General Light Industry	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
Hospital	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
Medical Office Building	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,473.2052	4,473.2052	0.1847	0.0382	4,489.2083
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,473.2052	4,473.2052	0.1847	0.0382	4,489.2083
Natural Gas Mitigated	0.1855	1.6860	1.4162	0.0101		0.1281	0.1281		0.1281	0.1281	0.0000	1,835.3667	1,835.3667	0.0352	0.0337	1,846.2734
Natural Gas Unmitigated	0.1855	1.6860	1.4162	0.0101		0.1281	0.1281		0.1281	0.1281	0.0000	1,835.3667	1,835.3667	0.0352	0.0337	1,846.2734

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
General Light Industry	1.20698e+006	6.5100e-003	0.0592	0.0497	3.5000e-004		4.5000e-003	4.5000e-003		4.5000e-003	4.5000e-003	0.0000	64.4088	64.4088	1.2300e-003	1.1800e-003	64.7915
Hospital	3.21284e+007	0.1732	1.5749	1.3229	9.4500e-003		0.1197	0.1197		0.1197	0.1197	0.0000	1,714.4956	1,714.4956	0.0329	0.0314	1,724.6840
Medical Office Building	1.05806e+006	5.7100e-003	0.0519	0.0436	3.1000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	56.4624	56.4624	1.0800e-003	1.0400e-003	56.7979
Total		0.1855	1.6860	1.4162	0.0101		0.1281	0.1281		0.1281	0.1281	0.0000	1,835.3667	1,835.3667	0.0352	0.0337	1,846.2734

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
General Light Industry	1.20698e+006	6.5100e-003	0.0592	0.0497	3.5000e-004		4.5000e-003	4.5000e-003		4.5000e-003	4.5000e-003	0.0000	64.4088	64.4088	1.2300e-003	1.1800e-003	64.7915
Hospital	3.21284e+007	0.1732	1.5749	1.3229	9.4500e-003		0.1197	0.1197		0.1197	0.1197	0.0000	1,714.4956	1,714.4956	0.0329	0.0314	1,724.6840
Medical Office Building	1.05806e+006	5.7100e-003	0.0519	0.0436	3.1000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	56.4624	56.4624	1.0800e-003	1.0400e-003	56.7979
Total		0.1855	1.6860	1.4162	0.0101		0.1281	0.1281		0.1281	0.1281	0.0000	1,835.3667	1,835.3667	0.0352	0.0337	1,846.2734

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

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	3.47381e+006	1,106.8297	0.0457	9.4500e-003	1,110.7894
General Light Industry	487987	155.4833	6.4200e-003	1.3300e-003	156.0395
Hospital	8.45794e+006	2,694.8816	0.1113	0.0230	2,704.5226
Medical Office Building	1.61951e+006	516.0107	0.0213	4.4100e-003	517.8568
Total		4,473.2052	0.1847	0.0382	4,489.2083

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	3.47381e+006	1,106.8297	0.0457	9.4500e-003	1,110.7894
General Light Industry	487987	155.4833	6.4200e-003	1.3300e-003	156.0395
Hospital	8.45794e+006	2,694.8816	0.1113	0.0230	2,704.5226
Medical Office Building	1.61951e+006	516.0107	0.0213	4.4100e-003	517.8568
Total		4,473.2052	0.1847	0.0382	4,489.2083

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.9335	2.5000e-004	0.0279	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.0543	0.0543	1.4000e-004	0.0000	0.0579
Unmitigated	2.9335	2.5000e-004	0.0279	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.0543	0.0543	1.4000e-004	0.0000	0.0579

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	0.3362					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.5948					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5700e-003	2.5000e-004	0.0279	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.0543	0.0543	1.4000e-004	0.0000	0.0579
Total	2.9335	2.5000e-004	0.0279	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.0543	0.0543	1.4000e-004	0.0000	0.0579

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3362					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.5948					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5700e-003	2.5000e-004	0.0279	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.0543	0.0543	1.4000e-004	0.0000	0.0579
Total	2.9335	2.5000e-004	0.0279	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.0543	0.0543	1.4000e-004	0.0000	0.0579

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	390.6135	2.4885	0.0615	471.1631
Unmitigated	478.7156	3.1103	0.0768	579.3685

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
General Light Industry	13.3547 / 0	59.6424	0.4375	0.0108	73.7816
Hospital	67.0016 / 12.7622	344.4074	2.1966	0.0543	415.5069
Medical Office Building	14.5256 / 2.76679	74.6659	0.4762	0.0118	90.0799
Total		478.7156	3.1103	0.0768	579.3685

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

7.2 Water by Land Use

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
General Light Industry	10.6838 / 0	47.7139	0.3500	8.6000e-003	59.0253
Hospital	53.6013 / 11.9837	281.8055	1.7575	0.0435	338.7076
Medical Office Building	11.6205 / 2.59801	61.0941	0.3810	9.4300e-003	73.4302
Total		390.6135	2.4885	0.0615	471.1631

8.0 Waste Detail

8.1 Mitigation Measures Waste

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,438.919 7	85.0377	0.0000	3,564.862 7
Unmitigated	1,438.919 7	85.0377	0.0000	3,564.862 7

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
General Light Industry	71.61	14.5362	0.8591	0.0000	36.0128
Hospital	5766.77	1,170.602 2	69.1806	0.0000	2,900.1174
Medical Office Building	1250.21	253.7813	14.9981	0.0000	628.7325
Total		1,438.919 7	85.0377	0.0000	3,564.862 7

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

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
General Light Industry	71.61	14.5362	0.8591	0.0000	36.0128
Hospital	5766.77	1,170.602 2	69.1806	0.0000	2,900.1174
Medical Office Building	1250.21	253.7813	14.9981	0.0000	628.7325
Total		1,438.919 7	85.0377	0.0000	3,564.862 7

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

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Annual

Equipment Type	Number
----------------	--------

11.0 Vegetation

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Summer

Hoag Hospital Expansion Project - Phase 1 Operational
South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	533.96	1000sqft	12.26	533,961.00	0
Medical Office Building	115.76	1000sqft	2.66	115,762.00	0
General Light Industry	57.75	1000sqft	1.33	57,750.00	0
Enclosed Parking with Elevator	1,482.00	Space	13.34	592,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Summer

Project Characteristics -

Land Use - Phase 1 plus existing: Net new 533,961 sf. Two 5-story parking structure (1) 716 stall, (2) 766. Utility Plant 57,750 sf. Existing Rhodes MOB 115,762 sf.

Construction Phase - Phase 1 operational beginning 2025.

Off-road Equipment -

Off-road Equipment - Phase 1 operational. No construction equipment.

Trips and VMT - Phase 1 operational. No construction workers.

Demolition - Demolition of existing parking lot and landscaping and haul away. Estimated 500 tons of material.

Grading -

Vehicle Trips - Hospital 10.72 ADT. Medical office buildings 34.80 ADT.

Energy Use -

Sequestration -

Construction Off-road Equipment Mitigation -

Area Mitigation - Low VOC architectural coatings per SCAQMD Rule 1113.

Energy Mitigation -

Water Mitigation - Low-flow water fixtures and irrigation systems will be implemented to meet state water reduction measures.

Waste Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Summer

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblLandUse	LandUseSquareFeet	115,760.00	115,762.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	13.22	10.72
tblVehicleTrips	WD_TR	36.13	34.80

2.0 Emissions Summary

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, 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	16.0804	2.0200e-003	0.2230	2.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		0.4792	0.4792	1.2500e-003		0.5103
Energy	1.0162	9.2381	7.7600	0.0554		0.7021	0.7021		0.7021	0.7021		11,085.7286	11,085.7286	0.2125	0.2032	11,151.6056
Mobile	13.6779	60.6446	182.4712	0.7614	69.3601	0.5333	69.8934	18.5523	0.4953	19.0476		77,676.3945	77,676.3945	3.2622		77,757.9502
Total	30.7745	69.8847	190.4541	0.8169	69.3601	1.2362	70.5963	18.5523	1.1982	19.7505		88,762.6022	88,762.6022	3.4760	0.2032	88,910.0661

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	16.0804	2.0200e-003	0.2230	2.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		0.4792	0.4792	1.2500e-003		0.5103
Energy	1.0162	9.2381	7.7600	0.0554		0.7021	0.7021		0.7021	0.7021		11,085.7286	11,085.7286	0.2125	0.2032	11,151.6056
Mobile	13.6779	60.6446	182.4712	0.7614	69.3601	0.5333	69.8934	18.5523	0.4953	19.0476		77,676.3945	77,676.3945	3.2622		77,757.9502
Total	30.7745	69.8847	190.4541	0.8169	69.3601	1.2362	70.5963	18.5523	1.1982	19.7505		88,762.6022	88,762.6022	3.4760	0.2032	88,910.0661

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2025	7/28/2025	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 13.34

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	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	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	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Summer

3.2 Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0597	0.0335	0.5009	1.7200e-003	0.2012	1.3600e-003	0.2026	0.0534	1.2500e-003	0.0546		171.8204	171.8204	3.6600e-003		171.9118
Total	0.0597	0.0335	0.5009	1.7200e-003	0.2012	1.3600e-003	0.2026	0.0534	1.2500e-003	0.0546		171.8204	171.8204	3.6600e-003		171.9118

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Summer

3.2 Site Preparation - 2025

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0597	0.0335	0.5009	1.7200e-003	0.2012	1.3600e-003	0.2026	0.0534	1.2500e-003	0.0546		171.8204	171.8204	3.6600e-003		171.9118
Total	0.0597	0.0335	0.5009	1.7200e-003	0.2012	1.3600e-003	0.2026	0.0534	1.2500e-003	0.0546		171.8204	171.8204	3.6600e-003		171.9118

4.0 Operational Detail - Mobile

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	13.6779	60.6446	182.4712	0.7614	69.3601	0.5333	69.8934	18.5523	0.4953	19.0476		77,676.3945	77,676.3945	3.2622		77,757.9502
Unmitigated	13.6779	60.6446	182.4712	0.7614	69.3601	0.5333	69.8934	18.5523	0.4953	19.0476		77,676.3945	77,676.3945	3.2622		77,757.9502

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		
General Light Industry	0.00	0.00	0.00		
Hospital	5,724.06	5,435.72	4757.59	21,496,326	21,496,326
Medical Office Building	4,028.45	1,037.21	179.43	7,914,558	7,914,558
Total	9,752.51	6,472.93	4,937.02	29,410,884	29,410,884

4.3 Trip Type Information

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
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	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
General Light Industry	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
Hospital	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
Medical Office Building	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0162	9.2381	7.7600	0.0554		0.7021	0.7021		0.7021	0.7021		11,085.7286	11,085.7286	0.2125	0.2032	11,151.6056
NaturalGas Unmitigated	1.0162	9.2381	7.7600	0.0554		0.7021	0.7021		0.7021	0.7021		11,085.7286	11,085.7286	0.2125	0.2032	11,151.6056

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
General Light Industry	3306.78	0.0357	0.3242	0.2723	1.9500e-003		0.0246	0.0246		0.0246	0.0246		389.0330	389.0330	7.4600e-003	7.1300e-003	391.3449
Hospital	88023.1	0.9493	8.6297	7.2490	0.0518		0.6559	0.6559		0.6559	0.6559		10,355.6594	10,355.6594	0.1985	0.1899	10,417.1979
Medical Office Building	2898.81	0.0313	0.2842	0.2387	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.0362	341.0362	6.5400e-003	6.2500e-003	343.0628
Total		1.0162	9.2381	7.7600	0.0554		0.7021	0.7021		0.7021	0.7021		11,085.7286	11,085.7286	0.2125	0.2032	11,151.6056

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
General Light Industry	3.30678	0.0357	0.3242	0.2723	1.9500e-003		0.0246	0.0246		0.0246	0.0246		389.0330	389.0330	7.4600e-003	7.1300e-003	391.3449
Hospital	88.0231	0.9493	8.6297	7.2490	0.0518		0.6559	0.6559		0.6559	0.6559		10,355.6594	10,355.6594	0.1985	0.1899	10,417.1979
Medical Office Building	2.89881	0.0313	0.2842	0.2387	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.0362	341.0362	6.5400e-003	6.2500e-003	343.0628
Total		1.0162	9.2381	7.7600	0.0554		0.7021	0.7021		0.7021	0.7021		11,085.7286	11,085.7286	0.2125	0.2032	11,151.6056

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, 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	16.0804	2.0200e-003	0.2230	2.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		0.4792	0.4792	1.2500e-003		0.5103
Unmitigated	16.0804	2.0200e-003	0.2230	2.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		0.4792	0.4792	1.2500e-003		0.5103

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.2179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0205	2.0200e-003	0.2230	2.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		0.4792	0.4792	1.2500e-003		0.5103
Total	16.0804	2.0200e-003	0.2230	2.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		0.4792	0.4792	1.2500e-003		0.5103

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.2179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0205	2.0200e-003	0.2230	2.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		0.4792	0.4792	1.2500e-003		0.5103
Total	16.0804	2.0200e-003	0.2230	2.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		0.4792	0.4792	1.2500e-003		0.5103

7.0 Water Detail

7.1 Mitigation Measures Water

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Summer

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

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Winter

Hoag Hospital Expansion Project - Phase 1 Operational
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	533.96	1000sqft	12.26	533,961.00	0
Medical Office Building	115.76	1000sqft	2.66	115,762.00	0
General Light Industry	57.75	1000sqft	1.33	57,750.00	0
Enclosed Parking with Elevator	1,482.00	Space	13.34	592,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Winter

Project Characteristics -

Land Use - Phase 1 plus existing: Net new 533,961 sf. Two 5-story parking structure (1) 716 stall, (2) 766. Utility Plant 57,750 sf. Existing Rhodes MOB 115,762 sf.

Construction Phase - Phase 1 operational beginning 2025.

Off-road Equipment -

Off-road Equipment - Phase 1 operational. No construction equipment.

Trips and VMT - Phase 1 operational. No construction workers.

Demolition - Demolition of existing parking lot and landscaping and haul away. Estimated 500 tons of material.

Grading -

Vehicle Trips - Hospital 10.72 ADT. Medical office buildings 34.80 ADT.

Energy Use -

Sequestration -

Construction Off-road Equipment Mitigation -

Area Mitigation - Low VOC architectural coatings per SCAQMD Rule 1113.

Energy Mitigation -

Water Mitigation - Low-flow water fixtures and irrigation systems will be implemented to meet state water reduction measures.

Waste Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Winter

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblLandUse	LandUseSquareFeet	115,760.00	115,762.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	13.22	10.72
tblVehicleTrips	WD_TR	36.13	34.80

2.0 Emissions Summary

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, 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	16.0804	2.0200e-003	0.2230	2.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		0.4792	0.4792	1.2500e-003		0.5103
Energy	1.0162	9.2381	7.7600	0.0554		0.7021	0.7021		0.7021	0.7021		11,085.7286	11,085.7286	0.2125	0.2032	11,151.6056
Mobile	13.0863	61.8074	170.9548	0.7228	69.3601	0.5354	69.8955	18.5523	0.4973	19.0496		73,795.0694	73,795.0694	3.2585		73,876.5326
Total	30.1830	71.0476	178.9378	0.7782	69.3601	1.2382	70.5984	18.5523	1.2002	19.7525		84,881.2772	84,881.2772	3.4723	0.2032	85,028.6485

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	16.0804	2.0200e-003	0.2230	2.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		0.4792	0.4792	1.2500e-003		0.5103
Energy	1.0162	9.2381	7.7600	0.0554		0.7021	0.7021		0.7021	0.7021		11,085.7286	11,085.7286	0.2125	0.2032	11,151.6056
Mobile	13.0863	61.8074	170.9548	0.7228	69.3601	0.5354	69.8955	18.5523	0.4973	19.0496		73,795.0694	73,795.0694	3.2585		73,876.5326
Total	30.1830	71.0476	178.9378	0.7782	69.3601	1.2382	70.5984	18.5523	1.2002	19.7525		84,881.2772	84,881.2772	3.4723	0.2032	85,028.6485

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2025	7/28/2025	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 13.34

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	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	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	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Winter

3.2 Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0666	0.0367	0.4505	1.6200e-003	0.2012	1.3600e-003	0.2026	0.0534	1.2500e-003	0.0546		161.1317	161.1317	3.4100e-003		161.2170
Total	0.0666	0.0367	0.4505	1.6200e-003	0.2012	1.3600e-003	0.2026	0.0534	1.2500e-003	0.0546		161.1317	161.1317	3.4100e-003		161.2170

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Winter

3.2 Site Preparation - 2025

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0666	0.0367	0.4505	1.6200e-003	0.2012	1.3600e-003	0.2026	0.0534	1.2500e-003	0.0546		161.1317	161.1317	3.4100e-003		161.2170
Total	0.0666	0.0367	0.4505	1.6200e-003	0.2012	1.3600e-003	0.2026	0.0534	1.2500e-003	0.0546		161.1317	161.1317	3.4100e-003		161.2170

4.0 Operational Detail - Mobile

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	13.0863	61.8074	170.9548	0.7228	69.3601	0.5354	69.8955	18.5523	0.4973	19.0496		73,795.06 94	73,795.06 94	3.2585		73,876.53 26
Unmitigated	13.0863	61.8074	170.9548	0.7228	69.3601	0.5354	69.8955	18.5523	0.4973	19.0496		73,795.06 94	73,795.06 94	3.2585		73,876.53 26

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		
General Light Industry	0.00	0.00	0.00		
Hospital	5,724.06	5,435.72	4757.59	21,496,326	21,496,326
Medical Office Building	4,028.45	1,037.21	179.43	7,914,558	7,914,558
Total	9,752.51	6,472.93	4,937.02	29,410,884	29,410,884

4.3 Trip Type Information

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
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	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
General Light Industry	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
Hospital	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
Medical Office Building	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0162	9.2381	7.7600	0.0554		0.7021	0.7021		0.7021	0.7021		11,085.7286	11,085.7286	0.2125	0.2032	11,151.6056
NaturalGas Unmitigated	1.0162	9.2381	7.7600	0.0554		0.7021	0.7021		0.7021	0.7021		11,085.7286	11,085.7286	0.2125	0.2032	11,151.6056

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
General Light Industry	3306.78	0.0357	0.3242	0.2723	1.9500e-003		0.0246	0.0246		0.0246	0.0246		389.0330	389.0330	7.4600e-003	7.1300e-003	391.3449
Hospital	88023.1	0.9493	8.6297	7.2490	0.0518		0.6559	0.6559		0.6559	0.6559		10,355.6594	10,355.6594	0.1985	0.1899	10,417.1979
Medical Office Building	2898.81	0.0313	0.2842	0.2387	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.0362	341.0362	6.5400e-003	6.2500e-003	343.0628
Total		1.0162	9.2381	7.7600	0.0554		0.7021	0.7021		0.7021	0.7021		11,085.7286	11,085.7286	0.2125	0.2032	11,151.6056

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
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
General Light Industry	3.30678	0.0357	0.3242	0.2723	1.9500e-003		0.0246	0.0246		0.0246	0.0246		389.0330	389.0330	7.4600e-003	7.1300e-003	391.3449	
Hospital	88.0231	0.9493	8.6297	7.2490	0.0518		0.6559	0.6559		0.6559	0.6559		10,355.6594	10,355.6594	0.1985	0.1899	10,417.1979	
Medical Office Building	2.89881	0.0313	0.2842	0.2387	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.0362	341.0362	6.5400e-003	6.2500e-003	343.0628	
Total		1.0162	9.2381	7.7600	0.0554		0.7021	0.7021		0.7021	0.7021		11,085.7286	11,085.7286	0.2125	0.2032	11,151.6056	

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, 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	16.0804	2.0200e-003	0.2230	2.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		0.4792	0.4792	1.2500e-003		0.5103
Unmitigated	16.0804	2.0200e-003	0.2230	2.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		0.4792	0.4792	1.2500e-003		0.5103

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.2179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0205	2.0200e-003	0.2230	2.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		0.4792	0.4792	1.2500e-003		0.5103
Total	16.0804	2.0200e-003	0.2230	2.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		0.4792	0.4792	1.2500e-003		0.5103

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.2179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0205	2.0200e-003	0.2230	2.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		0.4792	0.4792	1.2500e-003		0.5103
Total	16.0804	2.0200e-003	0.2230	2.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		0.4792	0.4792	1.2500e-003		0.5103

7.0 Water Detail

7.1 Mitigation Measures Water

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Hoag Hospital Expansion Project - Phase 1 Operational - South Coast Air Basin, Winter

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

CONSTRUCTION EMISSIONS PHASE 2

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

Hoag Hospital Expansion Project - Phase 2
South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.00	1000sqft	0.18	8,000.00	0
Hospital	210.00	1000sqft	4.82	210,000.00	0
Enclosed Parking with Elevator	486.00	Space	4.37	194,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

Project Characteristics -

Land Use - Phase 2: West Wing Hospital addition and ancillary buildings 210,000 sf. Addition to 5-story parking structures (1) 486 stalls. New 8,000 sf auditorium.

Construction Phase - Phase 2: duration 30 months. Start 2027, completion 2030. Construction phases extended to match project schedule.

Demolition - Demolition of existing 3,345 sf auditorium.

Grading - Net export of 61,700 cy of soil offsite. Grading phase over 9 months.

Vehicle Trips -

Sequestration -

Construction Off-road Equipment Mitigation - Fugitive dust emissions controlled by watering on-site at least 3 times daily per SCAQMD Rule 403. All off-road equipment over 50 HP will utilize Tier 2 engines.

Area Mitigation - Low VOC architectural coatings per SCAQMD Rule 1113.

Energy Mitigation -

Water Mitigation - Low-flow water fixtures and irrigation systems will be implimented to meet state water reduction measures.

Waste Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	10.00	66.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	230.00	65.00
tblConstructionPhase	NumDays	20.00	391.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	PhaseEndDate	7/28/2027	9/30/2027
tblConstructionPhase	PhaseEndDate	8/11/2027	12/31/2027
tblConstructionPhase	PhaseEndDate	9/8/2027	3/31/2028
tblConstructionPhase	PhaseEndDate	7/26/2028	6/30/2028
tblConstructionPhase	PhaseEndDate	8/23/2028	12/31/2029
tblConstructionPhase	PhaseEndDate	9/20/2028	3/29/2030
tblConstructionPhase	PhaseStartDate	7/29/2027	10/1/2027

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

tblConstructionPhase	PhaseStartDate	8/12/2027	1/1/2028
tblConstructionPhase	PhaseStartDate	9/9/2027	4/1/2028
tblConstructionPhase	PhaseStartDate	7/27/2028	7/1/2028
tblConstructionPhase	PhaseStartDate	8/24/2028	1/1/2030
tblGrading	MaterialExported	0.00	61,700.00
tblTripsAndVMT	HaulingTripNumber	7,713.00	7,712.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2027	0.1540	1.4693	1.2569	2.6400e-003	0.6099	0.0641	0.6740	0.3312	0.0592	0.3904	0.0000	231.5404	231.5404	0.0672	0.0000	233.2214
2028	0.1938	2.1893	2.3301	7.0600e-003	0.3665	0.0662	0.4328	0.1507	0.0613	0.2121	0.0000	655.8637	655.8637	0.1095	0.0000	658.6000
2029	0.1247	1.1229	1.9415	3.1300e-003	0.0215	0.0547	0.0762	5.7000e-003	0.0504	0.0561	0.0000	275.4834	275.4834	0.0847	0.0000	277.6018
2030	1.0441	0.0287	0.0755	1.7000e-004	0.0105	7.0000e-004	0.0112	2.8000e-003	7.0000e-004	3.5000e-003	0.0000	14.9786	14.9786	4.4000e-004	0.0000	14.9896
Maximum	1.0441	2.1893	2.3301	7.0600e-003	0.6099	0.0662	0.6740	0.3312	0.0613	0.3904	0.0000	655.8637	655.8637	0.1095	0.0000	658.6000

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2027	0.0849	2.1938	1.5969	2.6400e-003	0.2452	0.0615	0.3067	0.1311	0.0614	0.1926	0.0000	231.5401	231.5401	0.0672	0.0000	233.2212
2028	0.1725	3.6442	2.7146	7.0600e-003	0.2345	0.0974	0.3319	0.0837	0.0974	0.1810	0.0000	655.8633	655.8633	0.1095	0.0000	658.5996
2029	0.1268	2.6279	2.2961	3.1300e-003	0.0215	0.0872	0.1086	5.7000e-003	0.0872	0.0929	0.0000	275.4831	275.4831	0.0847	0.0000	277.6015
2030	1.0441	0.0287	0.0755	1.7000e-004	0.0105	7.0000e-004	0.0112	2.8000e-003	7.0000e-004	3.5000e-003	0.0000	14.9786	14.9786	4.4000e-004	0.0000	14.9896
Maximum	1.0441	3.6442	2.7146	7.0600e-003	0.2452	0.0974	0.3319	0.1311	0.0974	0.1926	0.0000	655.8633	655.8633	0.1095	0.0000	658.5996

	ROG	NOx	CO	SO2	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	5.82	-76.60	-19.26	0.00	49.25	-32.85	36.48	54.47	-43.74	29.02	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	7-1-2027	9-30-2027	0.7029	1.1181
2	10-1-2027	12-31-2027	0.9134	1.1508
3	1-1-2028	3-31-2028	1.1289	1.4686
4	4-1-2028	6-30-2028	0.6208	0.9641
5	7-1-2028	9-30-2028	0.3142	0.6936
6	10-1-2028	12-31-2028	0.3144	0.6939
7	1-1-2029	3-31-2029	0.3074	0.6786
8	4-1-2029	6-30-2029	0.3106	0.6860

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

9	7-1-2029	9-30-2029	0.3140	0.6935
10	10-1-2029	12-31-2029	0.3143	0.6937
11	1-1-2030	3-31-2030	1.0539	1.0539
		Highest	1.1289	1.4686

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	0.9049	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186
Energy	0.0685	0.6230	0.5233	3.7400e-003		0.0474	0.0474		0.0474	0.0474	0.0000	2,136.6819	2,136.6819	0.0732	0.0249	2,145.9298
Mobile	0.5388	2.9453	7.5768	0.0368	3.8439	0.0224	3.8663	1.0295	0.0208	1.0503	0.0000	3,416.4440	3,416.4440	0.1343	0.0000	3,419.8008
Waste						0.0000	0.0000		0.0000	0.0000	461.8938	0.0000	461.8938	27.2971	0.0000	1,144.3222
Water						0.0000	0.0000		0.0000	0.0000	8.8110	136.0752	144.8863	0.9106	0.0225	174.3653
Total	1.5122	3.5684	8.1090	0.0405	3.8439	0.0698	3.9137	1.0295	0.0682	1.0977	470.7048	5,689.2186	6,159.9234	28.4153	0.0474	6,884.4367

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9049	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186
Energy	0.0685	0.6230	0.5233	3.7400e-003		0.0474	0.0474		0.0474	0.0474	0.0000	2,136.6819	2,136.6819	0.0732	0.0249	2,145.9298
Mobile	0.5388	2.9453	7.5768	0.0368	3.8439	0.0224	3.8663	1.0295	0.0208	1.0503	0.0000	3,416.4440	3,416.4440	0.1343	0.0000	3,419.8008
Waste						0.0000	0.0000		0.0000	0.0000	461.8938	0.0000	461.8938	27.2971	0.0000	1,144.3222
Water						0.0000	0.0000		0.0000	0.0000	7.0488	111.7587	118.8075	0.7286	0.0181	142.4011
Total	1.5122	3.5684	8.1090	0.0405	3.8439	0.0698	3.9137	1.0295	0.0682	1.0977	468.9426	5,664.9020	6,133.8446	28.2333	0.0429	6,852.4725

	ROG	NOx	CO	SO2	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	0.37	0.43	0.42	0.64	9.45	0.46

3.0 Construction Detail

Construction Phase

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2027	9/30/2027	5	66	
2	Site Preparation	Site Preparation	10/1/2027	12/31/2027	5	66	
3	Grading	Grading	1/1/2028	3/31/2028	5	65	
4	Building Construction	Building Construction	4/1/2028	6/30/2028	5	65	
5	Paving	Paving	7/1/2028	12/31/2029	5	391	
6	Architectural Coating	Architectural Coating	1/1/2030	3/29/2030	5	64	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 32.5

Acres of Paving: 4.37

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 327,000; Non-Residential Outdoor: 109,000; Striped Parking Area: 11,664 (Architectural Coating – sqft)

OffRoad Equipment

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

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

Trips and VMT

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	15.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	7,712.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	151.00	68.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	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 - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6500e-003	0.0000	1.6500e-003	2.5000e-004	0.0000	2.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0691	0.6335	0.6408	1.2800e-003		0.0281	0.0281		0.0261	0.0261	0.0000	112.1923	112.1923	0.0313	0.0000	112.9754
Total	0.0691	0.6335	0.6408	1.2800e-003	1.6500e-003	0.0281	0.0298	2.5000e-004	0.0261	0.0264	0.0000	112.1923	112.1923	0.0313	0.0000	112.9754

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

3.2 Demolition - 2027

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	4.0000e-005	1.1300e-003	4.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5229	0.5229	4.0000e-005	0.0000	0.5238
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	1.5000e-003	8.8000e-004	0.0112	4.0000e-005	5.4300e-003	3.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4700e-003	0.0000	3.8110	3.8110	7.0000e-005	0.0000	3.8128
Total	1.5400e-003	2.0100e-003	0.0116	5.0000e-005	5.5600e-003	3.0000e-005	5.6000e-003	1.4800e-003	3.0000e-005	1.5100e-003	0.0000	4.3339	4.3339	1.1000e-004	0.0000	4.3366

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					6.4000e-004	0.0000	6.4000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0416	1.0779	0.8142	1.2800e-003		0.0302	0.0302		0.0302	0.0302	0.0000	112.1921	112.1921	0.0313	0.0000	112.9753
Total	0.0416	1.0779	0.8142	1.2800e-003	6.4000e-004	0.0302	0.0308	1.0000e-004	0.0302	0.0303	0.0000	112.1921	112.1921	0.0313	0.0000	112.9753

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

3.2 Demolition - 2027

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	4.0000e-005	1.1300e-003	4.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5229	0.5229	4.0000e-005	0.0000	0.5238
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	1.5000e-003	8.8000e-004	0.0112	4.0000e-005	5.4300e-003	3.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4700e-003	0.0000	3.8110	3.8110	7.0000e-005	0.0000	3.8128
Total	1.5400e-003	2.0100e-003	0.0116	5.0000e-005	5.5600e-003	3.0000e-005	5.6000e-003	1.4800e-003	3.0000e-005	1.5100e-003	0.0000	4.3339	4.3339	1.1000e-004	0.0000	4.3366

3.3 Site Preparation - 2027

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					0.5962	0.0000	0.5962	0.3277	0.0000	0.3277	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0816	0.8327	0.5911	1.2600e-003		0.0359	0.0359		0.0330	0.0330	0.0000	110.4411	110.4411	0.0357	0.0000	111.3340
Total	0.0816	0.8327	0.5911	1.2600e-003	0.5962	0.0359	0.6321	0.3277	0.0330	0.3607	0.0000	110.4411	110.4411	0.0357	0.0000	111.3340

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

3.3 Site Preparation - 2027

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	1.7900e-003	1.0600e-003	0.0134	5.0000e-005	6.5200e-003	4.0000e-005	6.5600e-003	1.7300e-003	4.0000e-005	1.7700e-003	0.0000	4.5732	4.5732	9.0000e-005	0.0000	4.5754
Total	1.7900e-003	1.0600e-003	0.0134	5.0000e-005	6.5200e-003	4.0000e-005	6.5600e-003	1.7300e-003	4.0000e-005	1.7700e-003	0.0000	4.5732	4.5732	9.0000e-005	0.0000	4.5754

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					0.2325	0.0000	0.2325	0.1278	0.0000	0.1278	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0399	1.1128	0.7577	1.2600e-003		0.0312	0.0312		0.0312	0.0312	0.0000	110.4409	110.4409	0.0357	0.0000	111.3339
Total	0.0399	1.1128	0.7577	1.2600e-003	0.2325	0.0312	0.2637	0.1278	0.0312	0.1590	0.0000	110.4409	110.4409	0.0357	0.0000	111.3339

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

3.3 Site Preparation - 2027

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	1.7900e-003	1.0600e-003	0.0134	5.0000e-005	6.5200e-003	4.0000e-005	6.5600e-003	1.7300e-003	4.0000e-005	1.7700e-003	0.0000	4.5732	4.5732	9.0000e-005	0.0000	4.5754
Total	1.7900e-003	1.0600e-003	0.0134	5.0000e-005	6.5200e-003	4.0000e-005	6.5600e-003	1.7300e-003	4.0000e-005	1.7700e-003	0.0000	4.5732	4.5732	9.0000e-005	0.0000	4.5754

3.4 Grading - 2028

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					0.2164	0.0000	0.2164	0.1100	0.0000	0.1100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0495	0.4977	0.4726	9.6000e-004		0.0203	0.0203		0.0186	0.0186	0.0000	84.7269	84.7269	0.0274	0.0000	85.4120
Total	0.0495	0.4977	0.4726	9.6000e-004	0.2164	0.0203	0.2367	0.1100	0.0186	0.1286	0.0000	84.7269	84.7269	0.0274	0.0000	85.4120

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

3.4 Grading - 2028

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	0.0181	0.5707	0.2105	2.6900e-003	0.0663	1.0400e-003	0.0673	0.0182	9.9000e-004	0.0192	0.0000	267.6903	267.6903	0.0187	0.0000	268.1567
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	1.4000e-003	8.0000e-004	0.0104	4.0000e-005	5.3500e-003	3.0000e-005	5.3800e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	3.6426	3.6426	7.0000e-005	0.0000	3.6442
Total	0.0195	0.5715	0.2209	2.7300e-003	0.0716	1.0700e-003	0.0727	0.0196	1.0200e-003	0.0206	0.0000	271.3328	271.3328	0.0187	0.0000	271.8009

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					0.0844	0.0000	0.0844	0.0429	0.0000	0.0429	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0328	0.8541	0.6172	9.6000e-004		0.0251	0.0251		0.0251	0.0251	0.0000	84.7268	84.7268	0.0274	0.0000	85.4119
Total	0.0328	0.8541	0.6172	9.6000e-004	0.0844	0.0251	0.1095	0.0429	0.0251	0.0680	0.0000	84.7268	84.7268	0.0274	0.0000	85.4119

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

3.4 Grading - 2028

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	0.0181	0.5707	0.2105	2.6900e-003	0.0663	1.0400e-003	0.0673	0.0182	9.9000e-004	0.0192	0.0000	267.6903	267.6903	0.0187	0.0000	268.1567
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	1.4000e-003	8.0000e-004	0.0104	4.0000e-005	5.3500e-003	3.0000e-005	5.3800e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	3.6426	3.6426	7.0000e-005	0.0000	3.6442
Total	0.0195	0.5715	0.2209	2.7300e-003	0.0716	1.0700e-003	0.0727	0.0196	1.0200e-003	0.0206	0.0000	271.3328	271.3328	0.0187	0.0000	271.8009

3.5 Building Construction - 2028

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	0.0444	0.4053	0.5228	8.8000e-004		0.0172	0.0172		0.0161	0.0161	0.0000	75.3738	75.3738	0.0177	0.0000	75.8168
Total	0.0444	0.4053	0.5228	8.8000e-004		0.0172	0.0172		0.0161	0.0161	0.0000	75.3738	75.3738	0.0177	0.0000	75.8168

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

3.5 Building Construction - 2028

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	3.9700e-003	0.1473	0.0415	5.2000e-004	0.0139	1.6000e-004	0.0141	4.0200e-003	1.6000e-004	4.1700e-003	0.0000	50.3512	50.3512	2.7300e-003	0.0000	50.4194
Worker	0.0141	8.0900e-003	0.1042	4.1000e-004	0.0538	3.1000e-004	0.0542	0.0143	2.9000e-004	0.0146	0.0000	36.6686	36.6686	6.6000e-004	0.0000	36.6852
Total	0.0181	0.1554	0.1457	9.3000e-004	0.0678	4.7000e-004	0.0683	0.0183	4.5000e-004	0.0188	0.0000	87.0198	87.0198	3.3900e-003	0.0000	87.1046

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	0.0388	0.7542	0.5859	8.8000e-004		0.0274	0.0274		0.0274	0.0274	0.0000	75.3737	75.3737	0.0177	0.0000	75.8167
Total	0.0388	0.7542	0.5859	8.8000e-004		0.0274	0.0274		0.0274	0.0274	0.0000	75.3737	75.3737	0.0177	0.0000	75.8167

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

3.5 Building Construction - 2028

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	3.9700e-003	0.1473	0.0415	5.2000e-004	0.0139	1.6000e-004	0.0141	4.0200e-003	1.6000e-004	4.1700e-003	0.0000	50.3512	50.3512	2.7300e-003	0.0000	50.4194
Worker	0.0141	8.0900e-003	0.1042	4.1000e-004	0.0538	3.1000e-004	0.0542	0.0143	2.9000e-004	0.0146	0.0000	36.6686	36.6686	6.6000e-004	0.0000	36.6852
Total	0.0181	0.1554	0.1457	9.3000e-004	0.0678	4.7000e-004	0.0683	0.0183	4.5000e-004	0.0188	0.0000	87.0198	87.0198	3.3900e-003	0.0000	87.1046

3.6 Paving - 2028

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	0.0595	0.5578	0.9476	1.4800e-003		0.0272	0.0272		0.0250	0.0250	0.0000	130.1252	130.1252	0.0421	0.0000	131.1773
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0595	0.5578	0.9476	1.4800e-003		0.0272	0.0272		0.0250	0.0250	0.0000	130.1252	130.1252	0.0421	0.0000	131.1773

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

3.6 Paving - 2028

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	2.8000e-003	1.6100e-003	0.0207	8.0000e-005	0.0107	6.0000e-005	0.0108	2.8400e-003	6.0000e-005	2.9000e-003	0.0000	7.2852	7.2852	1.3000e-004	0.0000	7.2885
Total	2.8000e-003	1.6100e-003	0.0207	8.0000e-005	0.0107	6.0000e-005	0.0108	2.8400e-003	6.0000e-005	2.9000e-003	0.0000	7.2852	7.2852	1.3000e-004	0.0000	7.2885

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	0.0605	1.3075	1.1242	1.4800e-003		0.0434	0.0434		0.0434	0.0434	0.0000	130.1250	130.1250	0.0421	0.0000	131.1771
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0605	1.3075	1.1242	1.4800e-003		0.0434	0.0434		0.0434	0.0434	0.0000	130.1250	130.1250	0.0421	0.0000	131.1771

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

3.6 Paving - 2028

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	2.8000e-003	1.6100e-003	0.0207	8.0000e-005	0.0107	6.0000e-005	0.0108	2.8400e-003	6.0000e-005	2.9000e-003	0.0000	7.2852	7.2852	1.3000e-004	0.0000	7.2885
Total	2.8000e-003	1.6100e-003	0.0207	8.0000e-005	0.0107	6.0000e-005	0.0108	2.8400e-003	6.0000e-005	2.9000e-003	0.0000	7.2852	7.2852	1.3000e-004	0.0000	7.2885

3.6 Paving - 2029

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	0.1194	1.1199	1.9024	2.9800e-003		0.0546	0.0546		0.0503	0.0503	0.0000	261.2513	261.2513	0.0845	0.0000	263.3636
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1194	1.1199	1.9024	2.9800e-003		0.0546	0.0546		0.0503	0.0503	0.0000	261.2513	261.2513	0.0845	0.0000	263.3636

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

3.6 Paving - 2029

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	5.2900e-003	2.9700e-003	0.0390	1.6000e-004	0.0215	1.2000e-004	0.0216	5.7000e-003	1.1000e-004	5.8100e-003	0.0000	14.2321	14.2321	2.4000e-004	0.0000	14.2382
Total	5.2900e-003	2.9700e-003	0.0390	1.6000e-004	0.0215	1.2000e-004	0.0216	5.7000e-003	1.1000e-004	5.8100e-003	0.0000	14.2321	14.2321	2.4000e-004	0.0000	14.2382

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	0.1215	2.6250	2.2571	2.9800e-003		0.0870	0.0870		0.0870	0.0870	0.0000	261.2510	261.2510	0.0845	0.0000	263.3633
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1215	2.6250	2.2571	2.9800e-003		0.0870	0.0870		0.0870	0.0870	0.0000	261.2510	261.2510	0.0845	0.0000	263.3633

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

3.6 Paving - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2900e-003	2.9700e-003	0.0390	1.6000e-004	0.0215	1.2000e-004	0.0216	5.7000e-003	1.1000e-004	5.8100e-003	0.0000	14.2321	14.2321	2.4000e-004	0.0000	14.2382
Total	5.2900e-003	2.9700e-003	0.0390	1.6000e-004	0.0215	1.2000e-004	0.0216	5.7000e-003	1.1000e-004	5.8100e-003	0.0000	14.2321	14.2321	2.4000e-004	0.0000	14.2382

3.7 Architectural Coating - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1800e-003	0.0274	0.0575	1.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	8.1704	8.1704	3.3000e-004	0.0000	8.1787
Total	1.0416	0.0274	0.0575	1.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	8.1704	8.1704	3.3000e-004	0.0000	8.1787

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

3.7 Architectural Coating - 2030

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	2.4300e-003	1.3400e-003	0.0180	8.0000e-005	0.0105	5.0000e-005	0.0106	2.8000e-003	5.0000e-005	2.8500e-003	0.0000	6.8082	6.8082	1.1000e-004	0.0000	6.8109
Total	2.4300e-003	1.3400e-003	0.0180	8.0000e-005	0.0105	5.0000e-005	0.0106	2.8000e-003	5.0000e-005	2.8500e-003	0.0000	6.8082	6.8082	1.1000e-004	0.0000	6.8109

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1800e-003	0.0274	0.0575	1.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	8.1704	8.1704	3.3000e-004	0.0000	8.1787
Total	1.0416	0.0274	0.0575	1.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	8.1704	8.1704	3.3000e-004	0.0000	8.1787

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

3.7 Architectural Coating - 2030

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	2.4300e-003	1.3400e-003	0.0180	8.0000e-005	0.0105	5.0000e-005	0.0106	2.8000e-003	5.0000e-005	2.8500e-003	0.0000	6.8082	6.8082	1.1000e-004	0.0000	6.8109
Total	2.4300e-003	1.3400e-003	0.0180	8.0000e-005	0.0105	5.0000e-005	0.0106	2.8000e-003	5.0000e-005	2.8500e-003	0.0000	6.8082	6.8082	1.1000e-004	0.0000	6.8109

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5388	2.9453	7.5768	0.0368	3.8439	0.0224	3.8663	1.0295	0.0208	1.0503	0.0000	3,416.4440	3,416.4440	0.1343	0.0000	3,419.8008
Unmitigated	0.5388	2.9453	7.5768	0.0368	3.8439	0.0224	3.8663	1.0295	0.0208	1.0503	0.0000	3,416.4440	3,416.4440	0.1343	0.0000	3,419.8008

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		
General Office Building	88.24	19.68	8.40	215,967	215,967
Hospital	2,776.20	2,137.80	1871.10	9,908,044	9,908,044
Total	2,864.44	2,157.48	1,879.50	10,124,011	10,124,011

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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2

4.4 Fleet Mix

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760
General Office Building	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760
Hospital	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760

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	1,458.4908	1,458.4908	0.0602	0.0125	1,463.7086
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,458.4908	1,458.4908	0.0602	0.0125	1,463.7086
NaturalGas Mitigated	0.0685	0.6230	0.5233	3.7400e-003		0.0474	0.0474		0.0474	0.0474	0.0000	678.1910	678.1910	0.0130	0.0124	682.2212
NaturalGas Unmitigated	0.0685	0.6230	0.5233	3.7400e-003		0.0474	0.0474		0.0474	0.0474	0.0000	678.1910	678.1910	0.0130	0.0124	682.2212

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
General Office Building	73120	3.9000e-004	3.5800e-003	3.0100e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9020	3.9020	7.0000e-005	7.0000e-005	3.9252
Hospital	1.26357e+007	0.0681	0.6194	0.5203	3.7200e-003		0.0471	0.0471		0.0471	0.0471	0.0000	674.2891	674.2891	0.0129	0.0124	678.2960
Total		0.0685	0.6230	0.5233	3.7400e-003		0.0473	0.0473		0.0473	0.0473	0.0000	678.1910	678.1910	0.0130	0.0124	682.2212

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
General Office Building	73120	3.9000e-004	3.5800e-003	3.0100e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9020	3.9020	7.0000e-005	7.0000e-005	3.9252
Hospital	1.26357e+007	0.0681	0.6194	0.5203	3.7200e-003		0.0471	0.0471		0.0471	0.0471	0.0000	674.2891	674.2891	0.0129	0.0124	678.2960
Total		0.0685	0.6230	0.5233	3.7400e-003		0.0473	0.0473		0.0473	0.0473	0.0000	678.1910	678.1910	0.0130	0.0124	682.2212

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

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	1.13918e+006	362.9684	0.0150	3.1000e-003	364.2670
General Office Building	111920	35.6601	1.4700e-003	3.0000e-004	35.7877
Hospital	3.3264e+006	1,059.8623	0.0438	9.0500e-003	1,063.6540
Total		1,458.4909	0.0602	0.0125	1,463.7086

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	1.13918e+006	362.9684	0.0150	3.1000e-003	364.2670
General Office Building	111920	35.6601	1.4700e-003	3.0000e-004	35.7877
Hospital	3.3264e+006	1,059.8623	0.0438	9.0500e-003	1,063.6540
Total		1,458.4909	0.0602	0.0125	1,463.7086

6.0 Area Detail

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	0.9049	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186
Unmitigated	0.9049	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

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	0.1038					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186
Total	0.9049	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186

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	0.1038					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186
Total	0.9049	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186

7.0 Water Detail

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

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	118.8075	0.7286	0.0181	142.4011
Unmitigated	144.8863	0.9106	0.0225	174.3653

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

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
General Office Building	1.42187 / 0.871469	9.4350	0.0467	1.1700e-003	10.9514
Hospital	26.3509 / 5.01922	135.4513	0.8639	0.0214	163.4138
Total		144.8863	0.9106	0.0225	174.3653

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
General Office Building	1.1375 / 0.818309	7.9768	0.0374	9.4000e-004	9.1915
Hospital	21.0807 / 4.71305	110.8307	0.6912	0.0171	133.2096
Total		118.8075	0.7286	0.0181	142.4011

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	461.8938	27.2971	0.0000	1,144.322 2
Unmitigated	461.8938	27.2971	0.0000	1,144.322 2

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
General Office Building	7.44	1.5103	0.0893	0.0000	3.7416
Hospital	2268	460.3835	27.2079	0.0000	1,140.580 6
Total		461.8938	27.2971	0.0000	1,144.322 2

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

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
General Office Building	7.44	1.5103	0.0893	0.0000	3.7416
Hospital	2268	460.3835	27.2079	0.0000	1,140.5806
Total		461.8938	27.2971	0.0000	1,144.3222

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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Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Annual

11.0 Vegetation

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

Hoag Hospital Expansion Project - Phase 2
South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.00	1000sqft	0.18	8,000.00	0
Hospital	210.00	1000sqft	4.82	210,000.00	0
Enclosed Parking with Elevator	486.00	Space	4.37	194,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

Project Characteristics -

Land Use - Phase 2: West Wing Hospital addition and ancillary buildings 210,000 sf. Addition to 5-story parking structures (1) 486 stalls. New 8,000 sf auditorium.

Construction Phase - Phase 2: duration 30 months. Start 2027, completion 2030. Construction phases extended to match project schedule.

Demolition - Demolition of existing 3,345 sf auditorium.

Grading - Net export of 61,700 cy of soil offsite. Grading phase over 9 months.

Vehicle Trips -

Sequestration -

Construction Off-road Equipment Mitigation - Fugitive dust emissions controlled by watering on-site at least 3 times daily per SCAQMD Rule 403. All off-road equipment over 50 HP will utilize Tier 2 engines.

Area Mitigation - Low VOC architectural coatings per SCAQMD Rule 1113.

Energy Mitigation -

Water Mitigation - Low-flow water fixtures and irrigation systems will be implimented to meet state water reduction measures.

Waste Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	10.00	66.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	230.00	65.00
tblConstructionPhase	NumDays	20.00	391.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	PhaseEndDate	7/28/2027	9/30/2027
tblConstructionPhase	PhaseEndDate	8/11/2027	12/31/2027
tblConstructionPhase	PhaseEndDate	9/8/2027	3/31/2028
tblConstructionPhase	PhaseEndDate	7/26/2028	6/30/2028
tblConstructionPhase	PhaseEndDate	8/23/2028	12/31/2029
tblConstructionPhase	PhaseEndDate	9/20/2028	3/29/2030
tblConstructionPhase	PhaseStartDate	7/29/2027	10/1/2027

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

tblConstructionPhase	PhaseStartDate	8/12/2027	1/1/2028
tblConstructionPhase	PhaseStartDate	9/9/2027	4/1/2028
tblConstructionPhase	PhaseStartDate	7/27/2028	7/1/2028
tblConstructionPhase	PhaseStartDate	8/24/2028	1/1/2030
tblGrading	MaterialExported	0.00	61,700.00
tblTripsAndVMT	HaulingTripNumber	7,713.00	7,712.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2027	2.5271	25.2623	19.7970	0.0403	18.2675	1.0880	19.3555	9.9840	1.0010	10.9850	0.0000	3,898.8402	3,898.8402	1.1962	0.0000	3,925.0955
2028	2.1172	32.4949	21.2439	0.1145	8.8998	0.6563	9.5561	3.9961	0.6050	4.6011	0.0000	12,146.8657	12,146.8657	1.5574	0.0000	12,185.8005
2029	0.9556	8.6018	14.9025	0.0241	0.1677	0.4194	0.5871	0.0445	0.3859	0.4303	0.0000	2,332.9806	2,332.9806	0.7159	0.0000	2,350.8775
2030	32.6271	0.8934	2.4085	5.4400e-003	0.3353	0.0220	0.3573	0.0889	0.0218	0.1108	0.0000	527.7402	527.7402	0.0154	0.0000	528.1247
Maximum	32.6271	32.4949	21.2439	0.1145	18.2675	1.0880	19.3555	9.9840	1.0010	10.9850	0.0000	12,146.8657	12,146.8657	1.5574	0.0000	12,185.8005

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, 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	4.9603	6.4000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1541	0.1541	4.0000e-004		0.1640
Energy	0.3755	3.4136	2.8674	0.0205		0.2594	0.2594		0.2594	0.2594		4,096.3159	4,096.3159	0.0785	0.0751	4,120.6582
Mobile	3.4511	17.1128	47.8910	0.2289	23.4720	0.1343	23.6063	6.2770	0.1248	6.4018		23,427.5967	23,427.5967	0.8915		23,449.8851
Total	8.7868	20.5271	50.8299	0.2494	23.4720	0.3940	23.8660	6.2770	0.3844	6.6615		27,524.0667	27,524.0667	0.9705	0.0751	27,570.7074

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	4.9603	6.4000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1541	0.1541	4.0000e-004		0.1640
Energy	0.3755	3.4136	2.8674	0.0205		0.2594	0.2594		0.2594	0.2594		4,096.3159	4,096.3159	0.0785	0.0751	4,120.6582
Mobile	3.4511	17.1128	47.8910	0.2289	23.4720	0.1343	23.6063	6.2770	0.1248	6.4018		23,427.5967	23,427.5967	0.8915		23,449.8851
Total	8.7868	20.5271	50.8299	0.2494	23.4720	0.3940	23.8660	6.2770	0.3844	6.6615		27,524.0667	27,524.0667	0.9705	0.0751	27,570.7074

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2027	9/30/2027	5	66	
2	Site Preparation	Site Preparation	10/1/2027	12/31/2027	5	66	
3	Grading	Grading	1/1/2028	3/31/2028	5	65	
4	Building Construction	Building Construction	4/1/2028	6/30/2028	5	65	
5	Paving	Paving	7/1/2028	12/31/2029	5	391	
6	Architectural Coating	Architectural Coating	1/1/2030	3/29/2030	5	64	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 32.5

Acres of Paving: 4.37

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 327,000; Non-Residential Outdoor: 109,000; Striped Parking Area: 11,664 (Architectural Coating – sqft)

OffRoad Equipment

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

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

Trips and VMT

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	15.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	7,712.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	151.00	68.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	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 - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0499	0.0000	0.0499	7.5500e-003	0.0000	7.5500e-003			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	0.0499	0.8528	0.9027	7.5500e-003	0.7920	0.7995		3,747.5996	3,747.5996	1.0464		3,773.7606

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

3.2 Demolition - 2027

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	1.0600e-003	0.0333	0.0121	1.6000e-004	3.9700e-003	6.0000e-005	4.0300e-003	1.0900e-003	6.0000e-005	1.1500e-003		17.5898	17.5898	1.2100e-003		17.6199
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	0.0453	0.0237	0.3664	1.3400e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		133.6508	133.6508	2.5700e-003		133.7149
Total	0.0464	0.0570	0.3786	1.5000e-003	0.1716	1.1000e-003	0.1727	0.0456	1.0200e-003	0.0466		151.2406	151.2406	3.7800e-003		151.3349

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					0.0195	0.0000	0.0195	2.9500e-003	0.0000	2.9500e-003			0.0000			0.0000
Off-Road	1.2617	32.6638	24.6739	0.0388		0.9135	0.9135		0.9135	0.9135	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	1.2617	32.6638	24.6739	0.0388	0.0195	0.9135	0.9330	2.9500e-003	0.9135	0.9165	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

3.2 Demolition - 2027

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	1.0600e-003	0.0333	0.0121	1.6000e-004	3.9700e-003	6.0000e-005	4.0300e-003	1.0900e-003	6.0000e-005	1.1500e-003		17.5898	17.5898	1.2100e-003		17.6199
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	0.0453	0.0237	0.3664	1.3400e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		133.6508	133.6508	2.5700e-003		133.7149
Total	0.0464	0.0570	0.3786	1.5000e-003	0.1716	1.1000e-003	0.1727	0.0456	1.0200e-003	0.0466		151.2406	151.2406	3.7800e-003		151.3349

3.3 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305		3,689.1037	3,689.1037	1.1931		3,718.9320

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

3.3 Site Preparation - 2027

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	0.0543	0.0284	0.4397	1.6100e-003	0.2012	1.2500e-003	0.2024	0.0534	1.1500e-003	0.0545		160.3810	160.3810	3.0800e-003		160.4579
Total	0.0543	0.0284	0.4397	1.6100e-003	0.2012	1.2500e-003	0.2024	0.0534	1.1500e-003	0.0545		160.3810	160.3810	3.0800e-003		160.4579

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	1.2097	33.7214	22.9600	0.0381		0.9462	0.9462		0.9462	0.9462	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	1.2097	33.7214	22.9600	0.0381	7.0458	0.9462	7.9920	3.8730	0.9462	4.8191	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

3.3 Site Preparation - 2027

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	0.0543	0.0284	0.4397	1.6100e-003	0.2012	1.2500e-003	0.2024	0.0534	1.1500e-003	0.0545		160.3810	160.3810	3.0800e-003		160.4579
Total	0.0543	0.0284	0.4397	1.6100e-003	0.2012	1.2500e-003	0.2024	0.0534	1.1500e-003	0.0545		160.3810	160.3810	3.0800e-003		160.4579

3.4 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6597	0.0000	6.6597	3.3837	0.0000	3.3837			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.7052	2,873.7052	0.9294		2,896.9405
Total	1.5227	15.3148	14.5402	0.0297	6.6597	0.6236	7.2833	3.3837	0.5737	3.9574		2,873.7052	2,873.7052	0.9294		2,896.9405

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

3.4 Grading - 2028

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	0.5515	17.1582	6.3584	0.0835	2.0724	0.0318	2.1042	0.5679	0.0304	0.5983		9,143.4410	9,143.4410	0.6256		9,159.0812
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	0.0430	0.0219	0.3453	1.3000e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		129.7195	129.7195	2.3700e-003		129.7787
Total	0.5945	17.1801	6.7038	0.0848	2.2401	0.0327	2.2728	0.6124	0.0313	0.6436		9,273.1605	9,273.1605	0.6280		9,288.8599

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					2.5973	0.0000	2.5973	1.3197	0.0000	1.3197			0.0000			0.0000
Off-Road	1.0093	26.2791	18.9906	0.0297		0.7725	0.7725		0.7725	0.7725	0.0000	2,873.7052	2,873.7052	0.9294		2,896.9405
Total	1.0093	26.2791	18.9906	0.0297	2.5973	0.7725	3.3698	1.3197	0.7725	2.0921	0.0000	2,873.7052	2,873.7052	0.9294		2,896.9405

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

3.4 Grading - 2028

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	0.5515	17.1582	6.3584	0.0835	2.0724	0.0318	2.1042	0.5679	0.0304	0.5983		9,143.4410	9,143.4410	0.6256		9,159.0812
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	0.0430	0.0219	0.3453	1.3000e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		129.7195	129.7195	2.3700e-003		129.7787
Total	0.5945	17.1801	6.7038	0.0848	2.2401	0.0327	2.2728	0.6124	0.0313	0.6436		9,273.1605	9,273.1605	0.6280		9,288.8599

3.5 Building Construction - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

3.5 Building Construction - 2028

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	0.1196	4.4900	1.2169	0.0161	0.4351	4.9400e-003	0.4401	0.1253	4.7200e-003	0.1300		1,726.7936	1,726.7936	0.0903		1,729.0502
Worker	0.4329	0.2206	3.4763	0.0131	1.6878	9.6900e-003	1.6975	0.4476	8.9100e-003	0.4565		1,305.8432	1,305.8432	0.0238		1,306.4390
Total	0.5525	4.7106	4.6932	0.0291	2.1230	0.0146	2.1376	0.5729	0.0136	0.5865		3,032.6368	3,032.6368	0.1141		3,035.4891

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	1.1948	23.2061	18.0286	0.0270		0.8422	0.8422		0.8422	0.8422	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.1948	23.2061	18.0286	0.0270		0.8422	0.8422		0.8422	0.8422	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

3.5 Building Construction - 2028

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	0.1196	4.4900	1.2169	0.0161	0.4351	4.9400e-003	0.4401	0.1253	4.7200e-003	0.1300		1,726.7936	1,726.7936	0.0903		1,729.0502
Worker	0.4329	0.2206	3.4763	0.0131	1.6878	9.6900e-003	1.6975	0.4476	8.9100e-003	0.4565		1,305.8432	1,305.8432	0.0238		1,306.4390
Total	0.5525	4.7106	4.6932	0.0291	2.1230	0.0146	2.1376	0.5729	0.0136	0.5865		3,032.6368	3,032.6368	0.1141		3,035.4891

3.6 Paving - 2028

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

3.6 Paving - 2028

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	0.0430	0.0219	0.3453	1.3000e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		129.7195	129.7195	2.3700e-003		129.7787
Total	0.0430	0.0219	0.3453	1.3000e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		129.7195	129.7195	2.3700e-003		129.7787

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	0.9311	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9311	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

3.6 Paving - 2028

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	0.0430	0.0219	0.3453	1.3000e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		129.7195	129.7195	2.3700e-003		129.7787
Total	0.0430	0.0219	0.3453	1.3000e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		129.7195	129.7195	2.3700e-003		129.7787

3.6 Paving - 2029

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

3.6 Paving - 2029

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	0.0404	0.0202	0.3246	1.2700e-003	0.1677	8.9000e-004	0.1686	0.0445	8.2000e-004	0.0453		126.2354	126.2354	2.1700e-003		126.2897
Total	0.0404	0.0202	0.3246	1.2700e-003	0.1677	8.9000e-004	0.1686	0.0445	8.2000e-004	0.0453		126.2354	126.2354	2.1700e-003		126.2897

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	0.9311	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9311	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

3.6 Paving - 2029

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	0.0404	0.0202	0.3246	1.2700e-003	0.1677	8.9000e-004	0.1686	0.0445	8.2000e-004	0.0453		126.2354	126.2354	2.1700e-003		126.2897
Total	0.0404	0.0202	0.3246	1.2700e-003	0.1677	8.9000e-004	0.1686	0.0445	8.2000e-004	0.0453		126.2354	126.2354	2.1700e-003		126.2897

3.7 Architectural Coating - 2030

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	32.4207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	32.5514	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

3.7 Architectural Coating - 2030

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	0.0757	0.0371	0.6107	2.4700e-003	0.3353	1.6700e-003	0.3370	0.0889	1.5300e-003	0.0905		246.2922	246.2922	3.9900e-003		246.3919
Total	0.0757	0.0371	0.6107	2.4700e-003	0.3353	1.6700e-003	0.3370	0.0889	1.5300e-003	0.0905		246.2922	246.2922	3.9900e-003		246.3919

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	32.4207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	32.5514	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

3.7 Architectural Coating - 2030

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	0.0757	0.0371	0.6107	2.4700e-003	0.3353	1.6700e-003	0.3370	0.0889	1.5300e-003	0.0905		246.2922	246.2922	3.9900e-003		246.3919
Total	0.0757	0.0371	0.6107	2.4700e-003	0.3353	1.6700e-003	0.3370	0.0889	1.5300e-003	0.0905		246.2922	246.2922	3.9900e-003		246.3919

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, 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	3.4511	17.1128	47.8910	0.2289	23.4720	0.1343	23.6063	6.2770	0.1248	6.4018		23,427.59 67	23,427.59 67	0.8915		23,449.88 51
Unmitigated	3.4511	17.1128	47.8910	0.2289	23.4720	0.1343	23.6063	6.2770	0.1248	6.4018		23,427.59 67	23,427.59 67	0.8915		23,449.88 51

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		
General Office Building	88.24	19.68	8.40	215,967	215,967
Hospital	2,776.20	2,137.80	1871.10	9,908,044	9,908,044
Total	2,864.44	2,157.48	1,879.50	10,124,011	10,124,011

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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2

4.4 Fleet Mix

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760
General Office Building	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760
Hospital	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3755	3.4136	2.8674	0.0205		0.2594	0.2594		0.2594	0.2594		4,096.3159	4,096.3159	0.0785	0.0751	4,120.6582
NaturalGas Unmitigated	0.3755	3.4136	2.8674	0.0205		0.2594	0.2594		0.2594	0.2594		4,096.3159	4,096.3159	0.0785	0.0751	4,120.6582

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
General Office Building	200.329	2.1600e-003	0.0196	0.0165	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		23.5681	23.5681	4.5000e-004	4.3000e-004	23.7081
Hospital	34618.4	0.3733	3.3940	2.8509	0.0204		0.2579	0.2579		0.2579	0.2579		4,072.7478	4,072.7478	0.0781	0.0747	4,096.9501
Total		0.3755	3.4136	2.8674	0.0205		0.2594	0.2594		0.2594	0.2594		4,096.3159	4,096.3159	0.0785	0.0751	4,120.6582

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
General Office Building	0.200329	2.1600e-003	0.0196	0.0165	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		23.5681	23.5681	4.5000e-004	4.3000e-004	23.7081
Hospital	34.6184	0.3733	3.3940	2.8509	0.0204		0.2579	0.2579		0.2579	0.2579		4,072.7478	4,072.7478	0.0781	0.0747	4,096.9501
Total		0.3755	3.4136	2.8674	0.0205		0.2594	0.2594		0.2594	0.2594		4,096.3159	4,096.3159	0.0785	0.0751	4,120.6582

6.0 Area Detail

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Summer

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.9603	6.4000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1541	0.1541	4.0000e-004		0.1640
Unmitigated	4.9603	6.4000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1541	0.1541	4.0000e-004		0.1640

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, 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	0.5685					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3853					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.5400e-003	6.4000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1541	0.1541	4.0000e-004		0.1640
Total	4.9603	6.4000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1541	0.1541	4.0000e-004		0.1640

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	0.5685					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3853					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.5400e-003	6.4000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1541	0.1541	4.0000e-004		0.1640
Total	4.9603	6.4000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1541	0.1541	4.0000e-004		0.1640

7.0 Water Detail

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, 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

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
----------------	--------	-----------	------------	-------------	-------------	-----------

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

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

Hoag Hospital Expansion Project - Phase 2
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.00	1000sqft	0.18	8,000.00	0
Hospital	210.00	1000sqft	4.82	210,000.00	0
Enclosed Parking with Elevator	486.00	Space	4.37	194,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

Project Characteristics -

Land Use - Phase 2: West Wing Hospital addition and ancillary buildings 210,000 sf. Addition to 5-story parking structures (1) 486 stalls. New 8,000 sf auditorium.

Construction Phase - Phase 2: duration 30 months. Start 2027, completion 2030. Construction phases extended to match project schedule.

Demolition - Demolition of existing 3,345 sf auditorium.

Grading - Net export of 61,700 cy of soil offsite. Grading phase over 9 months.

Vehicle Trips -

Sequestration -

Construction Off-road Equipment Mitigation - Fugitive dust emissions controlled by watering on-site at least 3 times daily per SCAQMD Rule 403. All off-road equipment over 50 HP will utilize Tier 2 engines.

Area Mitigation - Low VOC architectural coatings per SCAQMD Rule 1113.

Energy Mitigation -

Water Mitigation - Low-flow water fixtures and irrigation systems will be implemented to meet state water reduction measures.

Waste Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	10.00	66.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	230.00	65.00
tblConstructionPhase	NumDays	20.00	391.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	PhaseEndDate	7/28/2027	9/30/2027
tblConstructionPhase	PhaseEndDate	8/11/2027	12/31/2027
tblConstructionPhase	PhaseEndDate	9/8/2027	3/31/2028
tblConstructionPhase	PhaseEndDate	7/26/2028	6/30/2028
tblConstructionPhase	PhaseEndDate	8/23/2028	12/31/2029
tblConstructionPhase	PhaseEndDate	9/20/2028	3/29/2030
tblConstructionPhase	PhaseStartDate	7/29/2027	10/1/2027

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

tblConstructionPhase	PhaseStartDate	8/12/2027	1/1/2028
tblConstructionPhase	PhaseStartDate	9/9/2027	4/1/2028
tblConstructionPhase	PhaseStartDate	7/27/2028	7/1/2028
tblConstructionPhase	PhaseStartDate	8/24/2028	1/1/2030
tblGrading	MaterialExported	0.00	61,700.00
tblTripsAndVMT	HaulingTripNumber	7,713.00	7,712.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2027	2.5336	25.2651	19.7599	0.0403	18.2675	1.0880	19.3555	9.9840	1.0010	10.9850	0.0000	3,890.2199	3,890.2199	1.1960	0.0000	3,916.4716
2028	2.1363	32.5997	21.4716	0.1130	8.8998	0.6568	9.5566	3.9961	0.6055	4.6016	0.0000	11,986.1138	11,986.1138	1.5737	0.0000	12,025.4560
2029	0.9607	8.6038	14.8686	0.0240	0.1677	0.4194	0.5871	0.0445	0.3859	0.4303	0.0000	2,325.0950	2,325.0950	0.7157	0.0000	2,342.9882
2030	32.6367	0.8969	2.3438	5.2800e-003	0.3353	0.0220	0.3573	0.0889	0.0218	0.1108	0.0000	512.3264	512.3264	0.0151	0.0000	512.7038
Maximum	32.6367	32.5997	21.4716	0.1130	18.2675	1.0880	19.3555	9.9840	1.0010	10.9850	0.0000	11,986.1138	11,986.1138	1.5737	0.0000	12,025.4560

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, 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	4.9603	6.4000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1541	0.1541	4.0000e-004		0.1640
Energy	0.3755	3.4136	2.8674	0.0205		0.2594	0.2594		0.2594	0.2594		4,096.3159	4,096.3159	0.0785	0.0751	4,120.6582
Mobile	3.3065	17.3825	44.7204	0.2176	23.4720	0.1347	23.6067	6.2770	0.1251	6.4021		22,295.8707	22,295.8707	0.8930		22,318.1951
Total	8.6423	20.7967	47.6593	0.2381	23.4720	0.3944	23.8663	6.2770	0.3848	6.6618		26,392.3407	26,392.3407	0.9719	0.0751	26,439.0173

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	4.9603	6.4000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1541	0.1541	4.0000e-004		0.1640
Energy	0.3755	3.4136	2.8674	0.0205		0.2594	0.2594		0.2594	0.2594		4,096.3159	4,096.3159	0.0785	0.0751	4,120.6582
Mobile	3.3065	17.3825	44.7204	0.2176	23.4720	0.1347	23.6067	6.2770	0.1251	6.4021		22,295.8707	22,295.8707	0.8930		22,318.1951
Total	8.6423	20.7967	47.6593	0.2381	23.4720	0.3944	23.8663	6.2770	0.3848	6.6618		26,392.3407	26,392.3407	0.9719	0.0751	26,439.0173

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2027	9/30/2027	5	66	
2	Site Preparation	Site Preparation	10/1/2027	12/31/2027	5	66	
3	Grading	Grading	1/1/2028	3/31/2028	5	65	
4	Building Construction	Building Construction	4/1/2028	6/30/2028	5	65	
5	Paving	Paving	7/1/2028	12/31/2029	5	391	
6	Architectural Coating	Architectural Coating	1/1/2030	3/29/2030	5	64	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 32.5

Acres of Paving: 4.37

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 327,000; Non-Residential Outdoor: 109,000; Striped Parking Area: 11,664 (Architectural Coating – sqft)

OffRoad Equipment

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

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

Trips and VMT

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	15.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	7,712.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	151.00	68.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	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 - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0499	0.0000	0.0499	7.5500e-003	0.0000	7.5500e-003			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	0.0499	0.8528	0.9027	7.5500e-003	0.7920	0.7995		3,747.5996	3,747.5996	1.0464		3,773.7606

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

3.2 Demolition - 2027

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	1.0900e-003	0.0335	0.0126	1.6000e-004	3.9700e-003	6.0000e-005	4.0300e-003	1.0900e-003	6.0000e-005	1.1500e-003		17.2946	17.2946	1.2400e-003		17.3256
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	0.0508	0.0260	0.3289	1.2600e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		125.3257	125.3257	2.3900e-003		125.3854
Total	0.0519	0.0595	0.3415	1.4200e-003	0.1716	1.1000e-003	0.1727	0.0456	1.0200e-003	0.0466		142.6203	142.6203	3.6300e-003		142.7110

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					0.0195	0.0000	0.0195	2.9500e-003	0.0000	2.9500e-003			0.0000			0.0000
Off-Road	1.2617	32.6638	24.6739	0.0388		0.9135	0.9135		0.9135	0.9135	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	1.2617	32.6638	24.6739	0.0388	0.0195	0.9135	0.9330	2.9500e-003	0.9135	0.9165	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

3.2 Demolition - 2027

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	1.0900e-003	0.0335	0.0126	1.6000e-004	3.9700e-003	6.0000e-005	4.0300e-003	1.0900e-003	6.0000e-005	1.1500e-003		17.2946	17.2946	1.2400e-003		17.3256
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	0.0508	0.0260	0.3289	1.2600e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		125.3257	125.3257	2.3900e-003		125.3854
Total	0.0519	0.0595	0.3415	1.4200e-003	0.1716	1.1000e-003	0.1727	0.0456	1.0200e-003	0.0466		142.6203	142.6203	3.6300e-003		142.7110

3.3 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305		3,689.1037	3,689.1037	1.1931		3,718.9320

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

3.3 Site Preparation - 2027

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	0.0609	0.0312	0.3946	1.5100e-003	0.2012	1.2500e-003	0.2024	0.0534	1.1500e-003	0.0545		150.3909	150.3909	2.8700e-003		150.4625
Total	0.0609	0.0312	0.3946	1.5100e-003	0.2012	1.2500e-003	0.2024	0.0534	1.1500e-003	0.0545		150.3909	150.3909	2.8700e-003		150.4625

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	1.2097	33.7214	22.9600	0.0381		0.9462	0.9462		0.9462	0.9462	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	1.2097	33.7214	22.9600	0.0381	7.0458	0.9462	7.9920	3.8730	0.9462	4.8191	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

3.3 Site Preparation - 2027

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	0.0609	0.0312	0.3946	1.5100e-003	0.2012	1.2500e-003	0.2024	0.0534	1.1500e-003	0.0545		150.3909	150.3909	2.8700e-003		150.4625
Total	0.0609	0.0312	0.3946	1.5100e-003	0.2012	1.2500e-003	0.2024	0.0534	1.1500e-003	0.0545		150.3909	150.3909	2.8700e-003		150.4625

3.4 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6597	0.0000	6.6597	3.3837	0.0000	3.3837			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.7052	2,873.7052	0.9294		2,896.9405
Total	1.5227	15.3148	14.5402	0.0297	6.6597	0.6236	7.2833	3.3837	0.5737	3.9574		2,873.7052	2,873.7052	0.9294		2,896.9405

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

3.4 Grading - 2028

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	0.5653	17.2609	6.6218	0.0821	2.0724	0.0323	2.1047	0.5679	0.0309	0.5988		8,990.779 2	8,990.779 2	0.6421		9,006.831 0
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	0.0483	0.0240	0.3096	1.2200e- 003	0.1677	9.6000e- 004	0.1686	0.0445	8.9000e- 004	0.0454		121.6294	121.6294	2.2000e- 003		121.6845
Total	0.6136	17.2849	6.9315	0.0833	2.2401	0.0333	2.2734	0.6124	0.0318	0.6441		9,112.408 6	9,112.408 6	0.6443		9,128.515 5

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					2.5973	0.0000	2.5973	1.3197	0.0000	1.3197			0.0000			0.0000
Off-Road	1.0093	26.2791	18.9906	0.0297		0.7725	0.7725		0.7725	0.7725	0.0000	2,873.705 2	2,873.705 2	0.9294		2,896.940 5
Total	1.0093	26.2791	18.9906	0.0297	2.5973	0.7725	3.3698	1.3197	0.7725	2.0921	0.0000	2,873.705 2	2,873.705 2	0.9294		2,896.940 5

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

3.4 Grading - 2028

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	0.5653	17.2609	6.6218	0.0821	2.0724	0.0323	2.1047	0.5679	0.0309	0.5988		8,990.779 2	8,990.779 2	0.6421		9,006.831 0
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	0.0483	0.0240	0.3096	1.2200e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		121.6294	121.6294	2.2000e-003		121.6845
Total	0.6136	17.2849	6.9315	0.0833	2.2401	0.0333	2.2734	0.6124	0.0318	0.6441		9,112.408 6	9,112.408 6	0.6443		9,128.515 5

3.5 Building Construction - 2028

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

3.5 Building Construction - 2028

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	0.1256	4.4669	1.3291	0.0156	0.4351	5.1000e-003	0.4402	0.1253	4.8700e-003	0.1301		1,681.5116	1,681.5116	0.0953		1,683.8937
Worker	0.4864	0.2418	3.1168	0.0123	1.6878	9.6900e-003	1.6975	0.4476	8.9100e-003	0.4565		1,224.4028	1,224.4028	0.0222		1,224.9572
Total	0.6119	4.7087	4.4459	0.0279	2.1230	0.0148	2.1377	0.5729	0.0138	0.5867		2,905.9145	2,905.9145	0.1175		2,908.8509

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	1.1948	23.2061	18.0286	0.0270		0.8422	0.8422		0.8422	0.8422	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.1948	23.2061	18.0286	0.0270		0.8422	0.8422		0.8422	0.8422	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

3.5 Building Construction - 2028

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	0.1256	4.4669	1.3291	0.0156	0.4351	5.1000e-003	0.4402	0.1253	4.8700e-003	0.1301		1,681.5116	1,681.5116	0.0953		1,683.8937
Worker	0.4864	0.2418	3.1168	0.0123	1.6878	9.6900e-003	1.6975	0.4476	8.9100e-003	0.4565		1,224.4028	1,224.4028	0.0222		1,224.9572
Total	0.6119	4.7087	4.4459	0.0279	2.1230	0.0148	2.1377	0.5729	0.0138	0.5867		2,905.9145	2,905.9145	0.1175		2,908.8509

3.6 Paving - 2028

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

3.6 Paving - 2028

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	0.0483	0.0240	0.3096	1.2200e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		121.6294	121.6294	2.2000e-003		121.6845
Total	0.0483	0.0240	0.3096	1.2200e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		121.6294	121.6294	2.2000e-003		121.6845

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	0.9311	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9311	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

3.6 Paving - 2028

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	0.0483	0.0240	0.3096	1.2200e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		121.6294	121.6294	2.2000e-003		121.6845
Total	0.0483	0.0240	0.3096	1.2200e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		121.6294	121.6294	2.2000e-003		121.6845

3.6 Paving - 2029

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

3.6 Paving - 2029

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	0.0455	0.0221	0.2906	1.1900e-003	0.1677	8.9000e-004	0.1686	0.0445	8.2000e-004	0.0453		118.3498	118.3498	2.0200e-003		118.4004
Total	0.0455	0.0221	0.2906	1.1900e-003	0.1677	8.9000e-004	0.1686	0.0445	8.2000e-004	0.0453		118.3498	118.3498	2.0200e-003		118.4004

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	0.9311	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9311	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

3.6 Paving - 2029

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	0.0455	0.0221	0.2906	1.1900e-003	0.1677	8.9000e-004	0.1686	0.0445	8.2000e-004	0.0453		118.3498	118.3498	2.0200e-003		118.4004
Total	0.0455	0.0221	0.2906	1.1900e-003	0.1677	8.9000e-004	0.1686	0.0445	8.2000e-004	0.0453		118.3498	118.3498	2.0200e-003		118.4004

3.7 Architectural Coating - 2030

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	32.4207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	32.5514	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

3.7 Architectural Coating - 2030

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	0.0853	0.0406	0.5461	2.3100e-003	0.3353	1.6700e-003	0.3370	0.0889	1.5300e-003	0.0905		230.8783	230.8783	3.7100e-003		230.9710
Total	0.0853	0.0406	0.5461	2.3100e-003	0.3353	1.6700e-003	0.3370	0.0889	1.5300e-003	0.0905		230.8783	230.8783	3.7100e-003		230.9710

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	32.4207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	32.5514	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

3.7 Architectural Coating - 2030

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	0.0853	0.0406	0.5461	2.3100e-003	0.3353	1.6700e-003	0.3370	0.0889	1.5300e-003	0.0905		230.8783	230.8783	3.7100e-003		230.9710
Total	0.0853	0.0406	0.5461	2.3100e-003	0.3353	1.6700e-003	0.3370	0.0889	1.5300e-003	0.0905		230.8783	230.8783	3.7100e-003		230.9710

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, 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	3.3065	17.3825	44.7204	0.2176	23.4720	0.1347	23.6067	6.2770	0.1251	6.4021		22,295.8707	22,295.8707	0.8930		22,318.1951
Unmitigated	3.3065	17.3825	44.7204	0.2176	23.4720	0.1347	23.6067	6.2770	0.1251	6.4021		22,295.8707	22,295.8707	0.8930		22,318.1951

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		
General Office Building	88.24	19.68	8.40	215,967	215,967
Hospital	2,776.20	2,137.80	1871.10	9,908,044	9,908,044
Total	2,864.44	2,157.48	1,879.50	10,124,011	10,124,011

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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2

4.4 Fleet Mix

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760
General Office Building	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760
Hospital	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3755	3.4136	2.8674	0.0205		0.2594	0.2594		0.2594	0.2594		4,096.3159	4,096.3159	0.0785	0.0751	4,120.6582
NaturalGas Unmitigated	0.3755	3.4136	2.8674	0.0205		0.2594	0.2594		0.2594	0.2594		4,096.3159	4,096.3159	0.0785	0.0751	4,120.6582

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, 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
General Office Building	200.329	2.1600e-003	0.0196	0.0165	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		23.5681	23.5681	4.5000e-004	4.3000e-004	23.7081
Hospital	34618.4	0.3733	3.3940	2.8509	0.0204		0.2579	0.2579		0.2579	0.2579		4,072.7478	4,072.7478	0.0781	0.0747	4,096.9501
Total		0.3755	3.4136	2.8674	0.0205		0.2594	0.2594		0.2594	0.2594		4,096.3159	4,096.3159	0.0785	0.0751	4,120.6582

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
General Office Building	0.200329	2.1600e-003	0.0196	0.0165	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		23.5681	23.5681	4.5000e-004	4.3000e-004	23.7081
Hospital	34.6184	0.3733	3.3940	2.8509	0.0204		0.2579	0.2579		0.2579	0.2579		4,072.7478	4,072.7478	0.0781	0.0747	4,096.9501
Total		0.3755	3.4136	2.8674	0.0205		0.2594	0.2594		0.2594	0.2594		4,096.3159	4,096.3159	0.0785	0.0751	4,120.6582

6.0 Area Detail

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, Winter

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.9603	6.4000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1541	0.1541	4.0000e-004		0.1640
Unmitigated	4.9603	6.4000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1541	0.1541	4.0000e-004		0.1640

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, 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	0.5685					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3853					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.5400e-003	6.4000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1541	0.1541	4.0000e-004		0.1640
Total	4.9603	6.4000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1541	0.1541	4.0000e-004		0.1640

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	0.5685					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3853					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.5400e-003	6.4000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1541	0.1541	4.0000e-004		0.1640
Total	4.9603	6.4000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1541	0.1541	4.0000e-004		0.1640

7.0 Water Detail

Hoag Hospital Expansion Project - Phase 2 - South Coast Air Basin, 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

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

OPERATIONAL BUILDOUT EMISSIONS

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

Hoag Hospital Expansion - Buildout
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	57.75	1000sqft	1.33	57,750.00	0
Hospital	949.96	1000sqft	21.81	949,961.00	0
General Office Building	8.00	1000sqft	0.18	8,000.00	0
Medical Office Building	115.76	1000sqft	2.66	115,762.00	0
Enclosed Parking with Elevator	1,968.00	Space	17.71	787,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	421.46	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

Project Characteristics - CO2 Intensity Reduction Factor is based on 2030 forecast in Orange County.

Land Use - Hospital/ancillary 941,961 sf. Existing medical office 115,762 sf. 5-story parking structures total 1,968 stalls. Utility plant 57,750 sf. Auditorium 8,000 sf. Total 24.5 ac.

Construction Phase - No construction. Operational Buildout Only.

Off-road Equipment - No construction. Operational Buildout Only.

Trips and VMT - No construction. Operational Buildout Only.

Vehicle Trips - Hospital/ancillary 10.72 ADT weekdays. Medical office buildings 34.80 ADT weekdays.

Energy Use -

Sequestration - Proposed 91 trees full buildout.

Construction Off-road Equipment Mitigation - No construction. Operational Buildout Only.

Area Mitigation - Low VOC architectural coatings per SCAQMD Rule 1113.

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	PhaseEndDate	11/19/2030	7/24/2030
tblConstructionPhase	PhaseStartDate	10/9/2030	7/25/2030
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	421.46
tblSequestration	NumberOfNewTrees	0.00	91.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	13.22	10.72
tblVehicleTrips	WD_TR	36.13	34.80

2.0 Emissions Summary

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, 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	4.6785	3.5000e-004	0.0394	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0769	0.0769	2.0000e-004	0.0000	0.0819
Energy	0.3208	2.9165	2.4499	0.0175		0.2217	0.2217		0.2217	0.2217	0.0000	7,357.7858	7,357.7858	0.3487	0.1178	7,401.5936
Mobile	2.5789	14.6495	35.0021	0.1708	17.5336	0.1028	17.6364	4.6966	0.0955	4.7921	0.0000	15,886.4455	15,886.4455	0.6267	0.0000	15,902.1122
Waste						0.0000	0.0000		0.0000	0.0000	2,352.4278	0.0000	2,352.4278	139.0245	0.0000	5,828.0402
Water						0.0000	0.0000		0.0000	0.0000	47.1134	425.6118	472.7252	4.8683	0.1203	630.2870
Total	7.5782	17.5664	37.4913	0.1883	17.5336	0.3246	17.8582	4.6966	0.3173	5.0139	2,399.5411	23,669.9201	26,069.4612	144.8683	0.2381	29,762.1149

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	64.4280
Total	64.4280

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	7/25/2030	7/24/2030	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 17.71

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

3.2 Site Preparation - 2030

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

4.1 Mitigation Measures Mobile

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.5789	14.6495	35.0021	0.1708	17.5336	0.1028	17.6364	4.6966	0.0955	4.7921	0.0000	15,886.44 55	15,886.44 55	0.6267	0.0000	15,902.112 2
Unmitigated	2.5789	14.6495	35.0021	0.1708	17.5336	0.1028	17.6364	4.6966	0.0955	4.7921	0.0000	15,886.44 55	15,886.44 55	0.6267	0.0000	15,902.112 2

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		
General Light Industry	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Hospital	10,183.58	9,670.60	8464.15	38,243,750	38,243,750
Medical Office Building	4,028.52	1,037.23	179.43	7,914,695	7,914,695
Total	14,212.10	10,707.83	8,643.58	46,158,445	46,158,445

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757
General Light Industry	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757
General Office Building	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757
Hospital	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757
Medical Office Building	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,182.7826	4,182.7826	0.2878	0.0596	4,207.7229
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,182.7826	4,182.7826	0.2878	0.0596	4,207.7229
NaturalGas Mitigated	0.3208	2.9165	2.4499	0.0175		0.2217	0.2217		0.2217	0.2217	0.0000	3,175.0032	3,175.0032	0.0609	0.0582	3,193.8707
NaturalGas Unmitigated	0.3208	2.9165	2.4499	0.0175		0.2217	0.2217		0.2217	0.2217	0.0000	3,175.0032	3,175.0032	0.0609	0.0582	3,193.8707

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
General Light Industry	1.20698e+006	6.5100e-003	0.0592	0.0497	3.5000e-004		4.5000e-003	4.5000e-003		4.5000e-003	4.5000e-003	0.0000	64.4088	64.4088	1.2300e-003	1.1800e-003	64.7915
General Office Building	73120	3.9000e-004	3.5800e-003	3.0100e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9020	3.9020	7.0000e-005	7.0000e-005	3.9252
Hospital	5.71592e+007	0.3082	2.8019	2.3536	0.0168		0.2130	0.2130		0.2130	0.2130	0.0000	3,050.2301	3,050.2301	0.0585	0.0559	3,068.3561
Medical Office Building	1.05806e+006	5.7100e-003	0.0519	0.0436	3.1000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	56.4624	56.4624	1.0800e-003	1.0400e-003	56.7979
Total		0.3208	2.9165	2.4499	0.0175		0.2217	0.2217		0.2217	0.2217	0.0000	3,175.0032	3,175.0032	0.0608	0.0582	3,193.8707

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
General Light Industry	1.20698e+006	6.5100e-003	0.0592	0.0497	3.5000e-004		4.5000e-003	4.5000e-003		4.5000e-003	4.5000e-003	0.0000	64.4088	64.4088	1.2300e-003	1.1800e-003	64.7915
General Office Building	73120	3.9000e-004	3.5800e-003	3.0100e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9020	3.9020	7.0000e-005	7.0000e-005	3.9252
Hospital	5.71592e+007	0.3082	2.8019	2.3536	0.0168		0.2130	0.2130		0.2130	0.2130	0.0000	3,050.2301	3,050.2301	0.0585	0.0559	3,068.3561
Medical Office Building	1.05806e+006	5.7100e-003	0.0519	0.0436	3.1000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	56.4624	56.4624	1.0800e-003	1.0400e-003	56.7979
Total		0.3208	2.9165	2.4499	0.0175		0.2217	0.2217		0.2217	0.2217	0.0000	3,175.0032	3,175.0032	0.0608	0.0582	3,193.8707

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	4.61299e+006	881.8705	0.0607	0.0126	887.1287
General Light Industry	487987	93.2891	6.4200e-003	1.3300e-003	93.8453
General Office Building	111920	21.3959	1.4700e-003	3.0000e-004	21.5234
Hospital	1.50474e+007	2,876.6237	0.1979	0.0410	2,893.7759
Medical Office Building	1.61951e+006	309.6035	0.0213	4.4100e-003	311.4495
Total		4,182.7826	0.2878	0.0595	4,207.7229

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	4.61299e+006	881.8705	0.0607	0.0126	887.1287
General Light Industry	487987	93.2891	6.4200e-003	1.3300e-003	93.8453
General Office Building	111920	21.3959	1.4700e-003	3.0000e-004	21.5234
Hospital	1.50474e+007	2,876.6237	0.1979	0.0410	2,893.7759
Medical Office Building	1.61951e+006	309.6035	0.0213	4.4100e-003	311.4495
Total		4,182.7826	0.2878	0.0595	4,207.7229

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.6785	3.5000e-004	0.0394	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0769	0.0769	2.0000e-004	0.0000	0.0819
Unmitigated	4.6785	3.5000e-004	0.0394	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0769	0.0769	2.0000e-004	0.0000	0.0819

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	0.5354					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.1395					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.6000e-003	3.5000e-004	0.0394	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0769	0.0769	2.0000e-004	0.0000	0.0819
Total	4.6784	3.5000e-004	0.0394	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0769	0.0769	2.0000e-004	0.0000	0.0819

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5354					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.1395					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.6000e-003	3.5000e-004	0.0394	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0769	0.0769	2.0000e-004	0.0000	0.0819
Total	4.6784	3.5000e-004	0.0394	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0769	0.0769	2.0000e-004	0.0000	0.0819

7.0 Water Detail

7.1 Mitigation Measures Water

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	472.7252	4.8683	0.1203	630.2870
Unmitigated	472.7252	4.8683	0.1203	630.2870

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
General Light Industry	13.3547 / 0	37.4798	0.4375	0.0108	51.6191
General Office Building	1.42187 / 0.871469	5.8414	0.0467	1.1700e-003	7.3578
Hospital	119.201 / 22.705	382.7615	3.9079	0.0966	509.2536
Medical Office Building	14.5256 / 2.76679	46.6425	0.4762	0.0118	62.0565
Total		472.7252	4.8683	0.1203	630.2870

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	13.3547 / 0	37.4798	0.4375	0.0108	51.6191
General Office Building	1.42187 / 0.871469	5.8414	0.0467	1.1700e-003	7.3578
Hospital	119.201 / 22.705	382.7615	3.9079	0.0966	509.2536
Medical Office Building	14.5256 / 2.76679	46.6425	0.4762	0.0118	62.0565
Total		472.7252	4.8683	0.1203	630.2870

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,352.4278	139.0245	0.0000	5,828.0402
Unmitigated	2,352.4278	139.0245	0.0000	5,828.0402

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
General Light Industry	71.61	14.5362	0.8591	0.0000	36.0128
General Office Building	7.44	1.5103	0.0893	0.0000	3.7416
Hospital	10259.6	2,082.6000	123.0781	0.0000	5,159.5533
Medical Office Building	1250.21	253.7813	14.9981	0.0000	628.7325
Total		2,352.4278	139.0245	0.0000	5,828.0402

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	71.61	14.5362	0.8591	0.0000	36.0128
General Office Building	7.44	1.5103	0.0893	0.0000	3.7416
Hospital	10259.6	2,082.6000	123.0781	0.0000	5,159.5533
Medical Office Building	1250.21	253.7813	14.9981	0.0000	628.7325
Total		2,352.4278	139.0245	0.0000	5,828.0402

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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Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Annual

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	64.4280	0.0000	0.0000	64.4280

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	91	64.4280	0.0000	0.0000	64.4280
Total		64.4280	0.0000	0.0000	64.4280

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Summer

Hoag Hospital Expansion - Buildout
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	57.75	1000sqft	1.33	57,750.00	0
Hospital	949.96	1000sqft	21.81	949,961.00	0
General Office Building	8.00	1000sqft	0.18	8,000.00	0
Medical Office Building	115.76	1000sqft	2.66	115,762.00	0
Enclosed Parking with Elevator	1,968.00	Space	17.71	787,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	421.46	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Summer

Project Characteristics - CO2 Intensity Reduction Factor is based on 2030 forecast in Orange County.

Land Use - Hospital/ancillary 941,961 sf. Existing medical office 115,762 sf. 5-story parking structures total 1,968 stalls. Utility plant 57,750 sf. Auditorium 8,000 sf. Total 24.5 ac.

Construction Phase - No construction. Operational Buildout Only.

Off-road Equipment - No construction. Operational Buildout Only.

Trips and VMT - No construction. Operational Buildout Only.

Vehicle Trips - Hospital/ancillary 10.72 ADT weekdays. Medical office buildings 34.80 ADT weekdays.

Energy Use -

Sequestration - Proposed 91 trees full buildout.

Construction Off-road Equipment Mitigation - No construction. Operational Buildout Only.

Area Mitigation - Low VOC architectural coatings per SCAQMD Rule 1113.

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	PhaseEndDate	11/19/2030	7/24/2030
tblConstructionPhase	PhaseStartDate	10/9/2030	7/25/2030
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	421.46
tblSequestration	NumberOfNewTrees	0.00	91.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	13.22	10.72
tblVehicleTrips	WD_TR	36.13	34.80

2.0 Emissions Summary

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	25.6444	2.8300e-003	0.3149	2.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		0.6783	0.6783	1.7500e-003		0.7221
Energy	1.7579	15.9810	13.4241	0.0959		1.2146	1.2146		1.2146	1.2146		19,177.2161	19,177.2161	0.3676	0.3516	19,291.1767
Mobile	16.6622	85.5453	220.3027	1.0565	106.1343	0.6121	106.7464	28.3865	0.5685	28.9550		108,202.2843	108,202.2843	4.1324		108,305.5930
Total	44.0645	101.5291	234.0416	1.1524	106.1343	1.8278	107.9621	28.3865	1.7842	30.1707		127,380.1787	127,380.1787	4.5017	0.3516	127,597.4918

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	25.6444	2.8300e-003	0.3149	2.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		0.6783	0.6783	1.7500e-003		0.7221
Energy	1.7579	15.9810	13.4241	0.0959		1.2146	1.2146		1.2146	1.2146		19,177.2161	19,177.2161	0.3676	0.3516	19,291.1767
Mobile	16.6622	85.5453	220.3027	1.0565	106.1343	0.6121	106.7464	28.3865	0.5685	28.9550		108,202.2843	108,202.2843	4.1324		108,305.5930
Total	44.0645	101.5291	234.0416	1.1524	106.1343	1.8278	107.9621	28.3865	1.7842	30.1707		127,380.1787	127,380.1787	4.5017	0.3516	127,597.4918

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/25/2030	7/24/2030	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 17.71

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	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40

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

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Summer

3.2 Site Preparation - 2030

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	0.0000	0.0000	0.0000	0.0000	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	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	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

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	16.6622	85.5453	220.3027	1.0565	106.1343	0.6121	106.7464	28.3865	0.5685	28.9550		108,202.2843	108,202.2843	4.1324		108,305.5930
Unmitigated	16.6622	85.5453	220.3027	1.0565	106.1343	0.6121	106.7464	28.3865	0.5685	28.9550		108,202.2843	108,202.2843	4.1324		108,305.5930

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		
General Light Industry	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Hospital	10,183.58	9,670.60	8464.15	38,243,750	38,243,750
Medical Office Building	4,028.52	1,037.23	179.43	7,914,695	7,914,695
Total	14,212.10	10,707.83	8,643.58	46,158,445	46,158,445

4.3 Trip Type Information

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
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	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757
General Light Industry	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757
General Office Building	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757
Hospital	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757
Medical Office Building	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.7579	15.9810	13.4241	0.0959		1.2146	1.2146		1.2146	1.2146		19,177.2161	19,177.2161	0.3676	0.3516	19,291.1767
NaturalGas Unmitigated	1.7579	15.9810	13.4241	0.0959		1.2146	1.2146		1.2146	1.2146		19,177.2161	19,177.2161	0.3676	0.3516	19,291.1767

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
General Light Industry	3306.78	0.0357	0.3242	0.2723	1.9500e-003		0.0246	0.0246		0.0246	0.0246		389.0330	389.0330	7.4600e-003	7.1300e-003	391.3449
General Office Building	200.329	2.1600e-003	0.0196	0.0165	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		23.5681	23.5681	4.5000e-004	4.3000e-004	23.7081
Hospital	156600	1.6888	15.3530	12.8965	0.0921		1.1668	1.1668		1.1668	1.1668		18,423.5789	18,423.5789	0.3531	0.3378	18,533.0610
Medical Office Building	2898.81	0.0313	0.2842	0.2387	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.0362	341.0362	6.5400e-003	6.2500e-003	343.0628
Total		1.7579	15.9810	13.4241	0.0959		1.2146	1.2146		1.2146	1.2146		19,177.2161	19,177.2161	0.3676	0.3516	19,291.1767

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
General Light Industry	3.30678	0.0357	0.3242	0.2723	1.9500e-003		0.0246	0.0246		0.0246	0.0246		389.0330	389.0330	7.4600e-003	7.1300e-003	391.3449
General Office Building	0.200329	2.1600e-003	0.0196	0.0165	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		23.5681	23.5681	4.5000e-004	4.3000e-004	23.7081
Hospital	156.6	1.6888	15.3530	12.8965	0.0921		1.1668	1.1668		1.1668	1.1668		18,423.5789	18,423.5789	0.3531	0.3378	18,533.0610
Medical Office Building	2.89881	0.0313	0.2842	0.2387	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.0362	341.0362	6.5400e-003	6.2500e-003	343.0628
Total		1.7579	15.9810	13.4241	0.0959		1.2146	1.2146		1.2146	1.2146		19,177.2161	19,177.2161	0.3676	0.3516	19,291.1767

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	25.6444	2.8300e-003	0.3149	2.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		0.6783	0.6783	1.7500e-003		0.7221
Unmitigated	25.6444	2.8300e-003	0.3149	2.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		0.6783	0.6783	1.7500e-003		0.7221

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	2.9336					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.6820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0288	2.8300e-003	0.3149	2.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		0.6783	0.6783	1.7500e-003		0.7221
Total	25.6444	2.8300e-003	0.3149	2.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		0.6783	0.6783	1.7500e-003		0.7221

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.9336					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.6820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0288	2.8300e-003	0.3149	2.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		0.6783	0.6783	1.7500e-003		0.7221
Total	25.6444	2.8300e-003	0.3149	2.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		0.6783	0.6783	1.7500e-003		0.7221

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Summer

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

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Winter

Hoag Hospital Expansion - Buildout

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	57.75	1000sqft	1.33	57,750.00	0
Hospital	949.96	1000sqft	21.81	949,961.00	0
General Office Building	8.00	1000sqft	0.18	8,000.00	0
Medical Office Building	115.76	1000sqft	2.66	115,762.00	0
Enclosed Parking with Elevator	1,968.00	Space	17.71	787,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	421.46	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Winter

Project Characteristics - CO2 Intensity Reduction Factor is based on 2030 forecast in Orange County.

Land Use - Hospital/ancillary 941,961 sf. Existing medical office 115,762 sf. 5-story parking structures total 1,968 stalls. Utility plant 57,750 sf. Auditorium 8,000 sf. Total 24.5 ac.

Construction Phase - No construction. Operational Buildout Only.

Off-road Equipment - No construction. Operational Buildout Only.

Trips and VMT - No construction. Operational Buildout Only.

Vehicle Trips - Hospital/ancillary 10.72 ADT weekdays. Medical office buildings 34.80 ADT weekdays.

Energy Use -

Sequestration - Proposed 91 trees full buildout.

Construction Off-road Equipment Mitigation - No construction. Operational Buildout Only.

Area Mitigation - Low VOC architectural coatings per SCAQMD Rule 1113.

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	PhaseEndDate	11/19/2030	7/24/2030
tblConstructionPhase	PhaseStartDate	10/9/2030	7/25/2030
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	421.46
tblSequestration	NumberOfNewTrees	0.00	91.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	13.22	10.72
tblVehicleTrips	WD_TR	36.13	34.80

2.0 Emissions Summary

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	25.6444	2.8300e-003	0.3149	2.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		0.6783	0.6783	1.7500e-003		0.7221
Energy	1.7579	15.9810	13.4241	0.0959		1.2146	1.2146		1.2146	1.2146		19,177.2161	19,177.2161	0.3676	0.3516	19,291.1767
Mobile	15.7719	86.5354	205.1818	1.0021	106.1343	0.6139	106.7482	28.3865	0.5702	28.9567		102,721.6790	102,721.6790	4.1507		102,825.4474
Total	43.1742	102.5192	218.9208	1.0980	106.1343	1.8296	107.9639	28.3865	1.7859	30.1724		121,899.5734	121,899.5734	4.5201	0.3516	122,117.3462

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	25.6444	2.8300e-003	0.3149	2.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		0.6783	0.6783	1.7500e-003		0.7221
Energy	1.7579	15.9810	13.4241	0.0959		1.2146	1.2146		1.2146	1.2146		19,177.2161	19,177.2161	0.3676	0.3516	19,291.1767
Mobile	15.7719	86.5354	205.1818	1.0021	106.1343	0.6139	106.7482	28.3865	0.5702	28.9567		102,721.6790	102,721.6790	4.1507		102,825.4474
Total	43.1742	102.5192	218.9208	1.0980	106.1343	1.8296	107.9639	28.3865	1.7859	30.1724		121,899.5734	121,899.5734	4.5201	0.3516	122,117.3462

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/25/2030	7/24/2030	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 17.71

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	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40

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

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Winter

3.2 Site Preparation - 2030

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	0.0000	0.0000	0.0000	0.0000	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	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	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

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	15.7719	86.5354	205.1818	1.0021	106.1343	0.6139	106.7482	28.3865	0.5702	28.9567		102,721.6790	102,721.6790	4.1507		102,825.4474
Unmitigated	15.7719	86.5354	205.1818	1.0021	106.1343	0.6139	106.7482	28.3865	0.5702	28.9567		102,721.6790	102,721.6790	4.1507		102,825.4474

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		
General Light Industry	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Hospital	10,183.58	9,670.60	8464.15	38,243,750	38,243,750
Medical Office Building	4,028.52	1,037.23	179.43	7,914,695	7,914,695
Total	14,212.10	10,707.83	8,643.58	46,158,445	46,158,445

4.3 Trip Type Information

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
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	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757
General Light Industry	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757
General Office Building	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757
Hospital	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757
Medical Office Building	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.7579	15.9810	13.4241	0.0959		1.2146	1.2146		1.2146	1.2146		19,177.2161	19,177.2161	0.3676	0.3516	19,291.1767
NaturalGas Unmitigated	1.7579	15.9810	13.4241	0.0959		1.2146	1.2146		1.2146	1.2146		19,177.2161	19,177.2161	0.3676	0.3516	19,291.1767

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
General Light Industry	3306.78	0.0357	0.3242	0.2723	1.9500e-003		0.0246	0.0246		0.0246	0.0246		389.0330	389.0330	7.4600e-003	7.1300e-003	391.3449
General Office Building	200.329	2.1600e-003	0.0196	0.0165	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		23.5681	23.5681	4.5000e-004	4.3000e-004	23.7081
Hospital	156600	1.6888	15.3530	12.8965	0.0921		1.1668	1.1668		1.1668	1.1668		18,423.5789	18,423.5789	0.3531	0.3378	18,533.0610
Medical Office Building	2898.81	0.0313	0.2842	0.2387	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.0362	341.0362	6.5400e-003	6.2500e-003	343.0628
Total		1.7579	15.9810	13.4241	0.0959		1.2146	1.2146		1.2146	1.2146		19,177.2161	19,177.2161	0.3676	0.3516	19,291.1767

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
General Light Industry	3.30678	0.0357	0.3242	0.2723	1.9500e-003		0.0246	0.0246		0.0246	0.0246		389.0330	389.0330	7.4600e-003	7.1300e-003	391.3449
General Office Building	0.200329	2.1600e-003	0.0196	0.0165	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		23.5681	23.5681	4.5000e-004	4.3000e-004	23.7081
Hospital	156.6	1.6888	15.3530	12.8965	0.0921		1.1668	1.1668		1.1668	1.1668		18,423.5789	18,423.5789	0.3531	0.3378	18,533.0610
Medical Office Building	2.89881	0.0313	0.2842	0.2387	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.0362	341.0362	6.5400e-003	6.2500e-003	343.0628
Total		1.7579	15.9810	13.4241	0.0959		1.2146	1.2146		1.2146	1.2146		19,177.2161	19,177.2161	0.3676	0.3516	19,291.1767

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	25.6444	2.8300e-003	0.3149	2.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		0.6783	0.6783	1.7500e-003		0.7221
Unmitigated	25.6444	2.8300e-003	0.3149	2.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		0.6783	0.6783	1.7500e-003		0.7221

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	2.9336					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.6820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0288	2.8300e-003	0.3149	2.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		0.6783	0.6783	1.7500e-003		0.7221
Total	25.6444	2.8300e-003	0.3149	2.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		0.6783	0.6783	1.7500e-003		0.7221

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.9336					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.6820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0288	2.8300e-003	0.3149	2.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		0.6783	0.6783	1.7500e-003		0.7221
Total	25.6444	2.8300e-003	0.3149	2.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		0.6783	0.6783	1.7500e-003		0.7221

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Hoag Hospital Expansion - Buildout - South Coast AQMD Air District, Winter

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
