

APPENDIX B

AIR QUALITY AND GREENHOUSE GAS EMISSIONS CALCULATIONS

Channel 35

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	37.10	1000sqft	0.85	37,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2017
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Includes 18,000 square feet for studio and 19,100 for Pico House.

Construction Phase - Assumes construction phases could overlap.

Off-road Equipment -

Off-road Equipment - Concrete truck. Consistent with the project description.

Off-road Equipment - Consistent with project description.

Trips and VMT - Assumes 30 construction workers (approximately 60 trips) per day. Haul trucks based on 407 cubic yards of soil and 370 cubic yards of material.

Grading - Estimated project acreage.

Construction Off-road Equipment Mitigation -

Vehicle Trips - Assumes 22 employees consistent with the project description.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	305.00
tblConstructionPhase	NumDays	100.00	305.00
tblConstructionPhase	NumDays	2.00	305.00
tblConstructionPhase	PhaseEndDate	8/31/2018	6/30/2017
tblConstructionPhase	PhaseEndDate	8/31/2018	6/30/2017
tblConstructionPhase	PhaseStartDate	7/1/2017	5/1/2016
tblConstructionPhase	PhaseStartDate	7/1/2017	5/1/2016
tblGrading	AcresOfGrading	0.00	0.85
tblGrading	MaterialExported	0.00	407.00
tblOffRoadEquipment	HorsePower	400.00	97.00
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Concrete
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	1.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripNumber	0.00	46.00
tblTripsAndVMT	VendorTripNumber	6.00	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	12.00	20.00
tblTripsAndVMT	WorkerTripNumber	12.00	20.00
tblVehicleTrips	ST_TR	2.37	1.19
tblVehicleTrips	SU_TR	0.98	1.19

tblVehicleTrips	WD_TR	11.01	1.19
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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					
2016	0.2599	2.6846	2.2136	3.0400e-003	0.1768	0.1302	0.3071	0.0796	0.1199	0.1994	0.0000	272.0750	272.0750	0.0646	0.0000	273.4306
2017	0.1811	1.8530	1.5738	2.2600e-003	0.1612	0.0894	0.2506	0.0754	0.0823	0.1577	0.0000	198.1095	198.1095	0.0478	0.0000	199.1131
Total	0.4410	4.5376	3.7874	5.3000e-003	0.3380	0.2196	0.5576	0.1550	0.2022	0.3571	0.0000	470.1845	470.1845	0.1123	0.0000	472.5438

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					
2016	0.2599	2.6846	2.2136	3.0400e-003	0.1135	0.1302	0.2437	0.0448	0.1199	0.1647	0.0000	272.0748	272.0748	0.0646	0.0000	273.4304
2017	0.1811	1.8530	1.5738	2.2600e-003	0.0978	0.0894	0.1872	0.0407	0.0823	0.1230	0.0000	198.1093	198.1093	0.0478	0.0000	199.1130
Total	0.4410	4.5376	3.7874	5.3000e-003	0.2112	0.2196	0.4308	0.0855	0.2022	0.2877	0.0000	470.1841	470.1841	0.1123	0.0000	472.5433

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	37.51	0.00	22.74	44.84	0.00	19.45	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1771	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.2000e-004	9.2000e-004	0.0000	0.0000	9.7000e-004
Energy	2.1900e-003	0.0199	0.0167	1.2000e-004		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	321.8765	321.8765	7.5100e-003	1.8600e-003	322.6119
Mobile	0.0273	0.0842	0.3189	7.9000e-004	0.0539	1.1400e-003	0.0550	0.0144	1.0500e-003	0.0155	0.0000	60.9568	60.9568	2.4000e-003	0.0000	61.0071
Waste						0.0000	0.0000		0.0000	0.0000	7.0032	0.0000	7.0032	0.4139	0.0000	15.6946
Water						0.0000	0.0000		0.0000	0.0000	2.0920	72.8282	74.9201	0.2166	5.4300e-003	81.1515
Total	0.2066	0.1041	0.3360	9.1000e-004	0.0539	2.6500e-003	0.0566	0.0144	2.5600e-003	0.0170	9.0951	455.6624	464.7575	0.6404	7.2900e-003	480.4660

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	0.1771	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.2000e-004	9.2000e-004	0.0000	0.0000	9.7000e-004
Energy	2.1900e-003	0.0199	0.0167	1.2000e-004		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	321.8765	321.8765	7.5100e-003	1.8600e-003	322.6119
Mobile	0.0273	0.0842	0.3189	7.9000e-004	0.0539	1.1400e-003	0.0550	0.0144	1.0500e-003	0.0155	0.0000	60.9568	60.9568	2.4000e-003	0.0000	61.0071
Waste						0.0000	0.0000		0.0000	0.0000	7.0032	0.0000	7.0032	0.4139	0.0000	15.6946
Water						0.0000	0.0000		0.0000	0.0000	2.0920	72.8282	74.9201	0.2165	5.4200e-003	81.1481
Total	0.2066	0.1041	0.3360	9.1000e-004	0.0539	2.6500e-003	0.0566	0.0144	2.5600e-003	0.0170	9.0951	455.6624	464.7575	0.6403	7.2800e-003	480.4627

	ROG	NOx	CO	SO2	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	0.01	0.14	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	Grading	Grading	5/1/2016	6/30/2017	5	305	
2	Building Construction	Building Construction	5/1/2016	6/30/2017	5	305	
3	Concrete	Building Construction	5/1/2016	6/30/2017	5	305	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.85

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	162	0.38
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Concrete	Off-Highway Trucks	1	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
Grading	5	20.00	0.00	51.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	1	20.00	6.00	46.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Concrete	1	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Grading - 2016

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					0.1153	0.0000	0.1153	0.0632	0.0000	0.0632	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2021	2.2247	1.6942	1.9500e-003		0.1119	0.1119		0.1030	0.1030	0.0000	182.6111	182.6111	0.0545	0.0000	183.7564
Total	0.2021	2.2247	1.6942	1.9500e-003	0.1153	0.1119	0.2272	0.0632	0.1030	0.1662	0.0000	182.6111	182.6111	0.0545	0.0000	183.7564

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.6000e-004	4.2700e-003	3.2100e-003	1.0000e-005	3.9000e-004	6.0000e-005	4.5000e-004	1.0000e-004	6.0000e-005	1.6000e-004	0.0000	0.9866	0.9866	1.0000e-005	0.0000	0.9868
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	7.0200e-003	0.0103	0.1072	2.4000e-004	0.0192	1.6000e-004	0.0194	5.1000e-003	1.5000e-004	5.2500e-003	0.0000	17.9882	17.9882	9.7000e-004	0.0000	18.0085
Total	7.2800e-003	0.0146	0.1104	2.5000e-004	0.0196	2.2000e-004	0.0198	5.2000e-003	2.1000e-004	5.4100e-003	0.0000	18.9748	18.9748	9.8000e-004	0.0000	18.9953

3.2 Grading - 2016**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					0.0519	0.0000	0.0519	0.0284	0.0000	0.0284	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2021	2.2247	1.6942	1.9500e-003		0.1119	0.1119		0.1030	0.1030	0.0000	182.6108	182.6108	0.0545	0.0000	183.7562
Total	0.2021	2.2247	1.6942	1.9500e-003	0.0519	0.1119	0.1638	0.0284	0.1030	0.1315	0.0000	182.6108	182.6108	0.0545	0.0000	183.7562

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.6000e-004	4.2700e-003	3.2100e-003	1.0000e-005	3.9000e-004	6.0000e-005	4.5000e-004	1.0000e-004	6.0000e-005	1.6000e-004	0.0000	0.9866	0.9866	1.0000e-005	0.0000	0.9868
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	7.0200e-003	0.0103	0.1072	2.4000e-004	0.0192	1.6000e-004	0.0194	5.1000e-003	1.5000e-004	5.2500e-003	0.0000	17.9882	17.9882	9.7000e-004	0.0000	18.0085
Total	7.2800e-003	0.0146	0.1104	2.5000e-004	0.0196	2.2000e-004	0.0198	5.2000e-003	2.1000e-004	5.4100e-003	0.0000	18.9748	18.9748	9.8000e-004	0.0000	18.9953

3.2 Grading - 2017

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					0.1153	0.0000	0.1153	0.0632	0.0000	0.0632	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1425	1.5444	1.2213	1.4500e-003		0.0773	0.0773		0.0712	0.0712	0.0000	133.6022	133.6022	0.0405	0.0000	134.4532
Total	0.1425	1.5444	1.2213	1.4500e-003	0.1153	0.0773	0.1926	0.0632	0.0712	0.1343	0.0000	133.6022	133.6022	0.0405	0.0000	134.4532

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	1.8000e-004	2.9100e-003	2.3000e-003	1.0000e-005	3.8000e-004	4.0000e-005	4.2000e-004	1.0000e-004	4.0000e-005	1.4000e-004	0.0000	0.7209	0.7209	1.0000e-005	0.0000	0.7210
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6700e-003	6.9100e-003	0.0718	1.8000e-004	0.0143	1.2000e-004	0.0144	3.7900e-003	1.1000e-004	3.9000e-003	0.0000	12.8497	12.8497	6.6000e-004	0.0000	12.8636
Total	4.8500e-003	9.8200e-003	0.0741	1.9000e-004	0.0146	1.6000e-004	0.0148	3.8900e-003	1.5000e-004	4.0400e-003	0.0000	13.5706	13.5706	6.7000e-004	0.0000	13.5846

3.2 Grading - 2017

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					0.0519	0.0000	0.0519	0.0284	0.0000	0.0284	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1425	1.5444	1.2213	1.4500e-003		0.0773	0.0773		0.0712	0.0712	0.0000	133.6020	133.6020	0.0405	0.0000	134.4530
Total	0.1425	1.5444	1.2213	1.4500e-003	0.0519	0.0773	0.1292	0.0284	0.0712	0.0996	0.0000	133.6020	133.6020	0.0405	0.0000	134.4530

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	1.8000e-004	2.9100e-003	2.3000e-003	1.0000e-005	3.8000e-004	4.0000e-005	4.2000e-004	1.0000e-004	4.0000e-005	1.4000e-004	0.0000	0.7209	0.7209	1.0000e-005	0.0000	0.7210
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6700e-003	6.9100e-003	0.0718	1.8000e-004	0.0143	1.2000e-004	0.0144	3.7900e-003	1.1000e-004	3.9000e-003	0.0000	12.8497	12.8497	6.6000e-004	0.0000	12.8636
Total	4.8500e-003	9.8200e-003	0.0741	1.9000e-004	0.0146	1.6000e-004	0.0148	3.8900e-003	1.5000e-004	4.0400e-003	0.0000	13.5706	13.5706	6.7000e-004	0.0000	13.5846

3.3 Building Construction - 2016

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	0.0315	0.3733	0.1306	2.5000e-004		0.0169	0.0169		0.0156	0.0156	0.0000	23.2673	23.2673	7.0200e-003	0.0000	23.4147
Total	0.0315	0.3733	0.1306	2.5000e-004		0.0169	0.0169		0.0156	0.0156	0.0000	23.2673	23.2673	7.0200e-003	0.0000	23.4147

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4000e-004	3.8500e-003	2.8900e-003	1.0000e-005	3.5000e-004	6.0000e-005	4.1000e-004	9.0000e-005	5.0000e-005	1.5000e-004	0.0000	0.8899	0.8899	1.0000e-005	0.0000	0.8900
Vendor	4.6700e-003	0.0477	0.0612	1.1000e-004	3.2300e-003	7.4000e-004	3.9700e-003	9.2000e-004	6.8000e-004	1.6100e-003	0.0000	10.3556	10.3556	8.0000e-005	0.0000	10.3572
Worker	7.0200e-003	0.0103	0.1072	2.4000e-004	0.0192	1.6000e-004	0.0194	5.1000e-003	1.5000e-004	5.2500e-003	0.0000	17.9882	17.9882	9.7000e-004	0.0000	18.0085
Total	0.0119	0.0618	0.1713	3.6000e-004	0.0228	9.6000e-004	0.0237	6.1100e-003	8.8000e-004	7.0100e-003	0.0000	29.2337	29.2337	1.0600e-003	0.0000	29.2557

3.3 Building Construction - 2016

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	0.0315	0.3733	0.1306	2.5000e-004		0.0169	0.0169		0.0156	0.0156	0.0000	23.2672	23.2672	7.0200e-003	0.0000	23.4146
Total	0.0315	0.3733	0.1306	2.5000e-004		0.0169	0.0169		0.0156	0.0156	0.0000	23.2672	23.2672	7.0200e-003	0.0000	23.4146

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4000e-004	3.8500e-003	2.8900e-003	1.0000e-005	3.5000e-004	6.0000e-005	4.1000e-004	9.0000e-005	5.0000e-005	1.5000e-004	0.0000	0.8899	0.8899	1.0000e-005	0.0000	0.8900
Vendor	4.6700e-003	0.0477	0.0612	1.1000e-004	3.2300e-003	7.4000e-004	3.9700e-003	9.2000e-004	6.8000e-004	1.6100e-003	0.0000	10.3556	10.3556	8.0000e-005	0.0000	10.3572
Worker	7.0200e-003	0.0103	0.1072	2.4000e-004	0.0192	1.6000e-004	0.0194	5.1000e-003	1.5000e-004	5.2500e-003	0.0000	17.9882	17.9882	9.7000e-004	0.0000	18.0085
Total	0.0119	0.0618	0.1713	3.6000e-004	0.0228	9.6000e-004	0.0237	6.1100e-003	8.8000e-004	7.0100e-003	0.0000	29.2337	29.2337	1.0600e-003	0.0000	29.2557

3.3 Building Construction - 2017

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	0.0211	0.2500	0.0896	1.8000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	17.0190	17.0190	5.2100e-003	0.0000	17.1285
Total	0.0211	0.2500	0.0896	1.8000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	17.0190	17.0190	5.2100e-003	0.0000	17.1285

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	1.7000e-004	2.6200e-003	2.0700e-003	1.0000e-005	3.4000e-004	4.0000e-005	3.8000e-004	9.0000e-005	4.0000e-005	1.2000e-004	0.0000	0.6502	0.6502	0.0000	0.0000	0.6503
Vendor	3.1700e-003	0.0322	0.0431	8.0000e-005	2.4000e-003	4.9000e-004	2.8900e-003	6.9000e-004	4.5000e-004	1.1400e-003	0.0000	7.5682	7.5682	5.0000e-005	0.0000	7.5693
Worker	4.6700e-003	6.9100e-003	0.0718	1.8000e-004	0.0143	1.2000e-004	0.0144	3.7900e-003	1.1000e-004	3.9000e-003	0.0000	12.8497	12.8497	6.6000e-004	0.0000	12.8636
Total	8.0100e-003	0.0418	0.1170	2.7000e-004	0.0170	6.5000e-004	0.0177	4.5700e-003	6.0000e-004	5.1600e-003	0.0000	21.0681	21.0681	7.1000e-004	0.0000	21.0833

3.3 Building Construction - 2017

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	0.0211	0.2500	0.0896	1.8000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	17.0190	17.0190	5.2100e-003	0.0000	17.1285
Total	0.0211	0.2500	0.0896	1.8000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	17.0190	17.0190	5.2100e-003	0.0000	17.1285

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	1.7000e-004	2.6200e-003	2.0700e-003	1.0000e-005	3.4000e-004	4.0000e-005	3.8000e-004	9.0000e-005	4.0000e-005	1.2000e-004	0.0000	0.6502	0.6502	0.0000	0.0000	0.6503
Vendor	3.1700e-003	0.0322	0.0431	8.0000e-005	2.4000e-003	4.9000e-004	2.8900e-003	6.9000e-004	4.5000e-004	1.1400e-003	0.0000	7.5682	7.5682	5.0000e-005	0.0000	7.5693
Worker	4.6700e-003	6.9100e-003	0.0718	1.8000e-004	0.0143	1.2000e-004	0.0144	3.7900e-003	1.1000e-004	3.9000e-003	0.0000	12.8497	12.8497	6.6000e-004	0.0000	12.8636
Total	8.0100e-003	0.0418	0.1170	2.7000e-004	0.0170	6.5000e-004	0.0177	4.5700e-003	6.0000e-004	5.1600e-003	0.0000	21.0681	21.0681	7.1000e-004	0.0000	21.0833

3.4 Concrete - 2016

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	7.0200e-003	0.0103	0.1072	2.4000e-004	0.0192	1.6000e-004	0.0194	5.1000e-003	1.5000e-004	5.2500e-003	0.0000	17.9882	17.9882	9.7000e-004	0.0000	18.0085
Total	7.0200e-003	0.0103	0.1072	2.4000e-004	0.0192	1.6000e-004	0.0194	5.1000e-003	1.5000e-004	5.2500e-003	0.0000	17.9882	17.9882	9.7000e-004	0.0000	18.0085

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	7.0200e-003	0.0103	0.1072	2.4000e-004	0.0192	1.6000e-004	0.0194	5.1000e-003	1.5000e-004	5.2500e-003	0.0000	17.9882	17.9882	9.7000e-004	0.0000	18.0085
Total	7.0200e-003	0.0103	0.1072	2.4000e-004	0.0192	1.6000e-004	0.0194	5.1000e-003	1.5000e-004	5.2500e-003	0.0000	17.9882	17.9882	9.7000e-004	0.0000	18.0085

3.4 Concrete - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6700e-003	6.9100e-003	0.0718	1.8000e-004	0.0143	1.2000e-004	0.0144	3.7900e-003	1.1000e-004	3.9000e-003	0.0000	12.8497	12.8497	6.6000e-004	0.0000	12.8636
Total	4.6700e-003	6.9100e-003	0.0718	1.8000e-004	0.0143	1.2000e-004	0.0144	3.7900e-003	1.1000e-004	3.9000e-003	0.0000	12.8497	12.8497	6.6000e-004	0.0000	12.8636

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6700e-003	6.9100e-003	0.0718	1.8000e-004	0.0143	1.2000e-004	0.0144	3.7900e-003	1.1000e-004	3.9000e-003	0.0000	12.8497	12.8497	6.6000e-004	0.0000	12.8636
Total	4.6700e-003	6.9100e-003	0.0718	1.8000e-004	0.0143	1.2000e-004	0.0144	3.7900e-003	1.1000e-004	3.9000e-003	0.0000	12.8497	12.8497	6.6000e-004	0.0000	12.8636

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0273	0.0842	0.3189	7.9000e-004	0.0539	1.1400e-003	0.0550	0.0144	1.0500e-003	0.0155	0.0000	60.9568	60.9568	2.4000e-003	0.0000	61.0071
Unmitigated	0.0273	0.0842	0.3189	7.9000e-004	0.0539	1.1400e-003	0.0550	0.0144	1.0500e-003	0.0155	0.0000	60.9568	60.9568	2.4000e-003	0.0000	61.0071

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	44.15	44.15	44.15	142,224	142,224
Total	44.15	44.15	44.15	142,224	142,224

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 Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513125	0.060112	0.180262	0.139218	0.042100	0.006630	0.016061	0.030999	0.001941	0.002506	0.004348	0.000594	0.002104

5.0 Energy Detail

4.4 Fleet Mix

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	300.2374	300.2374	7.0900e-003	1.4700e-003	300.8411
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	300.2374	300.2374	7.0900e-003	1.4700e-003	300.8411
NaturalGas Mitigated	2.1900e-003	0.0199	0.0167	1.2000e-004		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	21.6392	21.6392	4.1000e-004	4.0000e-004	21.7709
NaturalGas Unmitigated	2.1900e-003	0.0199	0.0167	1.2000e-004		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	21.6392	21.6392	4.1000e-004	4.0000e-004	21.7709

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 Office Building	405503	2.1900e-003	0.0199	0.0167	1.2000e-004		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	21.6392	21.6392	4.1000e-004	4.0000e-004	21.7709
Total		2.1900e-003	0.0199	0.0167	1.2000e-004		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	21.6392	21.6392	4.1000e-004	4.0000e-004	21.7709

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 Office Building	405503	2.1900e-003	0.0199	0.0167	1.2000e-004		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	21.6392	21.6392	4.1000e-004	4.0000e-004	21.7709
Total		2.1900e-003	0.0199	0.0167	1.2000e-004		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	21.6392	21.6392	4.1000e-004	4.0000e-004	21.7709

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	539063	300.2374	7.0900e-003	1.4700e-003	300.8411
Total		300.2374	7.0900e-003	1.4700e-003	300.8411

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	539063	300.2374	7.0900e-003	1.4700e-003	300.8411
Total		300.2374	7.0900e-003	1.4700e-003	300.8411

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1771	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.2000e-004	9.2000e-004	0.0000	0.0000	9.7000e-004
Unmitigated	0.1771	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.2000e-004	9.2000e-004	0.0000	0.0000	9.7000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1341					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.2000e-004	9.2000e-004	0.0000	0.0000	9.7000e-004
Total	0.1771	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.2000e-004	9.2000e-004	0.0000	0.0000	9.7000e-004

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Consumer Products	0.1341					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.2000e-004	9.2000e-004	0.0000	0.0000	9.7000e-004
Architectural Coating	0.0430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1771	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.2000e-004	9.2000e-004	0.0000	0.0000	9.7000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	74.9201	0.2165	5.4200e-003	81.1481
Unmitigated	74.9201	0.2166	5.4300e-003	81.1515

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	6.59392 / 4.04144	74.9201	0.2166	5.4300e-003	81.1515
Total		74.9201	0.2166	5.4300e-003	81.1515

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	6.59392 / 4.04144	74.9201	0.2165	5.4200e-003	81.1481
Total		74.9201	0.2165	5.4200e-003	81.1481

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.0032	0.4139	0.0000	15.6946
Unmitigated	7.0032	0.4139	0.0000	15.6946

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	34.5	7.0032	0.4139	0.0000	15.6946
Total		7.0032	0.4139	0.0000	15.6946

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	34.5	7.0032	0.4139	0.0000	15.6946
Total		7.0032	0.4139	0.0000	15.6946

9.0 Operational Offroad

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

Channel 35

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	37.10	1000sqft	0.85	37,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2017
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Includes 18,000 square feet for studio and 19,100 for Pico House.

Construction Phase - Assumes construction phases could overlap.

Off-road Equipment -

Off-road Equipment - Concrete truck. Consistent with the project description.

Off-road Equipment - Consistent with project description.

Trips and VMT - Assumes 30 construction workers (approximately 60 trips) per day. Haul trucks based on 407 cubic yards of soil and 370 cubic yards of material.

Grading - Estimated project acreage.

Construction Off-road Equipment Mitigation -

Vehicle Trips - Assumes 22 employees consistent with the project description.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	305.00
tblConstructionPhase	NumDays	100.00	305.00
tblConstructionPhase	NumDays	2.00	305.00
tblConstructionPhase	PhaseEndDate	8/31/2018	6/30/2017
tblConstructionPhase	PhaseEndDate	8/31/2018	6/30/2017
tblConstructionPhase	PhaseStartDate	7/1/2017	5/1/2016
tblConstructionPhase	PhaseStartDate	7/1/2017	5/1/2016
tblGrading	AcresOfGrading	0.00	0.85
tblGrading	MaterialExported	0.00	407.00
tblOffRoadEquipment	HorsePower	400.00	97.00
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Concrete
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	1.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripNumber	0.00	46.00
tblTripsAndVMT	VendorTripNumber	6.00	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	12.00	20.00
tblTripsAndVMT	WorkerTripNumber	12.00	20.00
tblVehicleTrips	ST_TR	2.37	1.19
tblVehicleTrips	SU_TR	0.98	1.19

tblVehicleTrips	WD_TR	11.01	1.19
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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					
2016	2.9756	30.6122	25.4063	0.0351	1.4727	1.4882	2.9609	0.6049	1.3699	1.9748	0.0000	3,461.9544	3,461.9544	0.8132	0.0000	3,479.0317
2017	2.7922	28.4444	24.3111	0.0352	1.4752	1.3752	2.8505	0.6056	1.2660	1.8716	0.0000	3,392.8396	3,392.8396	0.8105	0.0000	3,409.8601
Total	5.7677	59.0566	49.7174	0.0703	2.9479	2.8634	5.8113	1.2105	2.6359	3.8464	0.0000	6,854.7940	6,854.7940	1.6237	0.0000	6,888.8918

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	2.9756	30.6122	25.4063	0.0351	1.0570	1.4882	2.5451	0.3772	1.3699	1.7471	0.0000	3,461.9544	3,461.9544	0.8132	0.0000	3,479.0317
2017	2.7922	28.4444	24.3111	0.0352	1.0595	1.3752	2.4348	0.3778	1.2660	1.6438	0.0000	3,392.8396	3,392.8396	0.8105	0.0000	3,409.8601
Total	5.7677	59.0566	49.7174	0.0703	2.1165	2.8634	4.9799	0.7550	2.6359	3.3909	0.0000	6,854.7940	6,854.7940	1.6237	0.0000	6,888.8918

	ROG	NOx	CO	SO2	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	28.20	0.00	14.31	37.63	0.00	11.84	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9705	4.0000e-005	3.8600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.1200e-003	8.1200e-003	2.0000e-005		8.5900e-003
Energy	0.0120	0.1089	0.0915	6.5000e-004		8.2800e-003	8.2800e-003		8.2800e-003	8.2800e-003		130.7020	130.7020	2.5100e-003	2.4000e-003	131.4975
Mobile	0.1528	0.4314	1.7630	4.5100e-003	0.3016	6.2800e-003	0.3079	0.0806	5.7800e-003	0.0864		383.6827	383.6827	0.0145		383.9877
Total	1.1353	0.5404	1.8584	5.1600e-003	0.3016	0.0146	0.3162	0.0806	0.0141	0.0947		514.3929	514.3929	0.0171	2.4000e-003	515.4938

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9705	4.0000e-005	3.8600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.1200e-003	8.1200e-003	2.0000e-005		8.5900e-003
Energy	0.0120	0.1089	0.0915	6.5000e-004		8.2800e-003	8.2800e-003		8.2800e-003	8.2800e-003		130.7020	130.7020	2.5100e-003	2.4000e-003	131.4975
Mobile	0.1528	0.4314	1.7630	4.5100e-003	0.3016	6.2800e-003	0.3079	0.0806	5.7800e-003	0.0864		383.6827	383.6827	0.0145		383.9877
Total	1.1353	0.5404	1.8584	5.1600e-003	0.3016	0.0146	0.3162	0.0806	0.0141	0.0947		514.3929	514.3929	0.0171	2.4000e-003	515.4938

	ROG	NOx	CO	SO2	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	Grading	Grading	5/1/2016	6/30/2017	5	305	
2	Building Construction	Building Construction	5/1/2016	6/30/2017	5	305	
3	Concrete	Building Construction	5/1/2016	6/30/2017	5	305	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.85

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	162	0.38
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Concrete	Off-Highway Trucks	1	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
Grading	5	20.00	0.00	51.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	1	20.00	6.00	46.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Concrete	1	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Grading - 2016

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					0.7559	0.0000	0.7559	0.4141	0.0000	0.4141			0.0000			0.0000
Off-Road	2.3102	25.4249	19.3617	0.0223		1.2792	1.2792		1.1776	1.1776		2,300.5056	2,300.5056	0.6871		2,314.9346
Total	2.3102	25.4249	19.3617	0.0223	0.7559	1.2792	2.0350	0.4141	1.1776	1.5917		2,300.5056	2,300.5056	0.6871		2,314.9346

3.2 Grading - 2016

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	2.8800e-003	0.0463	0.0325	1.2000e-004	4.5600e-003	7.2000e-004	5.2700e-003	1.2000e-003	6.6000e-004	1.8600e-003		12.4414	12.4414	9.0000e-005		12.4433
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	0.0833	0.1041	1.2973	2.8300e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		237.9165	237.9165	0.0122		238.1726
Total	0.0861	0.1504	1.3298	2.9500e-003	0.2281	2.5900e-003	0.2307	0.0605	2.3800e-003	0.0629		250.3579	250.3579	0.0123		250.6159

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					0.3401	0.0000	0.3401	0.1864	0.0000	0.1864			0.0000			0.0000
Off-Road	2.3102	25.4249	19.3617	0.0223		1.2792	1.2792		1.1776	1.1776	0.0000	2,300.5056	2,300.5056	0.6871		2,314.9346
Total	2.3102	25.4249	19.3617	0.0223	0.3401	1.2792	1.6193	0.1864	1.1776	1.3640	0.0000	2,300.5056	2,300.5056	0.6871		2,314.9346

3.2 Grading - 2016

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	2.8800e-003	0.0463	0.0325	1.2000e-004	4.5600e-003	7.2000e-004	5.2700e-003	1.2000e-003	6.6000e-004	1.8600e-003		12.4414	12.4414	9.0000e-005		12.4433
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	0.0833	0.1041	1.2973	2.8300e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		237.9165	237.9165	0.0122		238.1726
Total	0.0861	0.1504	1.3298	2.9500e-003	0.2281	2.5900e-003	0.2307	0.0605	2.3800e-003	0.0629		250.3579	250.3579	0.0123		250.6159

3.2 Grading - 2017

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					0.7559	0.0000	0.7559	0.4141	0.0000	0.4141			0.0000			0.0000
Off-Road	2.1925	23.7606	18.7885	0.0223		1.1896	1.1896		1.0952	1.0952		2,265.7103	2,265.7103	0.6872		2,280.1421
Total	2.1925	23.7606	18.7885	0.0223	0.7559	1.1896	1.9454	0.4141	1.0952	1.5093		2,265.7103	2,265.7103	0.6872		2,280.1421

3.2 Grading - 2017

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	2.7300e-003	0.0425	0.0312	1.2000e-004	5.8900e-003	6.6000e-004	6.5400e-003	1.5300e-003	6.0000e-004	2.1300e-003		12.2376	12.2376	9.0000e-005		12.2394
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	0.0749	0.0940	1.1741	2.8300e-003	0.2236	1.8000e-003	0.2254	0.0593	1.6600e-003	0.0610		228.8115	228.8115	0.0113		229.0479
Total	0.0776	0.1365	1.2053	2.9500e-003	0.2294	2.4600e-003	0.2319	0.0608	2.2600e-003	0.0631		241.0491	241.0491	0.0114		241.2873

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					0.3401	0.0000	0.3401	0.1864	0.0000	0.1864			0.0000			0.0000
Off-Road	2.1925	23.7606	18.7885	0.0223		1.1896	1.1896		1.0952	1.0952	0.0000	2,265.7103	2,265.7103	0.6872		2,280.1421
Total	2.1925	23.7606	18.7885	0.0223	0.3401	1.1896	1.5297	0.1864	1.0952	1.2815	0.0000	2,265.7103	2,265.7103	0.6872		2,280.1421

3.2 Grading - 2017

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	2.7300e-003	0.0425	0.0312	1.2000e-004	5.8900e-003	6.6000e-004	6.5400e-003	1.5300e-003	6.0000e-004	2.1300e-003		12.2376	12.2376	9.0000e-005		12.2394
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	0.0749	0.0940	1.1741	2.8300e-003	0.2236	1.8000e-003	0.2254	0.0593	1.6600e-003	0.0610		228.8115	228.8115	0.0113		229.0479
Total	0.0776	0.1365	1.2053	2.9500e-003	0.2294	2.4600e-003	0.2319	0.0608	2.2600e-003	0.0631		241.0491	241.0491	0.0114		241.2873

3.3 Building Construction - 2016

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	0.3600	4.2658	1.4924	2.8200e-003		0.1936	0.1936		0.1781	0.1781		293.1174	293.1174	0.0884		294.9741
Total	0.3600	4.2658	1.4924	2.8200e-003		0.1936	0.1936		0.1781	0.1781		293.1174	293.1174	0.0884		294.9741

3.3 Building Construction - 2016

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	2.6000e-003	0.0417	0.0294	1.1000e-004	4.1100e-003	6.5000e-004	4.7500e-003	1.0800e-003	5.9000e-004	1.6800e-003		11.2217	11.2217	8.0000e-005		11.2234
Vendor	0.0501	0.5211	0.5985	1.3100e-003	0.0375	8.4600e-003	0.0460	0.0107	7.7800e-003	0.0185		130.9188	130.9188	9.4000e-004		130.9385
Worker	0.0833	0.1041	1.2973	2.8300e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		237.9165	237.9165	0.0122		238.1726
Total	0.1360	0.6670	1.9251	4.2500e-003	0.2652	0.0110	0.2761	0.0711	0.0101	0.0812		380.0570	380.0570	0.0132		380.3345

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	0.3600	4.2658	1.4924	2.8200e-003		0.1936	0.1936		0.1781	0.1781	0.0000	293.1174	293.1174	0.0884		294.9741
Total	0.3600	4.2658	1.4924	2.8200e-003		0.1936	0.1936		0.1781	0.1781	0.0000	293.1174	293.1174	0.0884		294.9741

3.3 Building Construction - 2016

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	2.6000e-003	0.0417	0.0294	1.1000e-004	4.1100e-003	6.5000e-004	4.7500e-003	1.0800e-003	5.9000e-004	1.6800e-003		11.2217	11.2217	8.0000e-005		11.2234
Vendor	0.0501	0.5211	0.5985	1.3100e-003	0.0375	8.4600e-003	0.0460	0.0107	7.7800e-003	0.0185		130.9188	130.9188	9.4000e-004		130.9385
Worker	0.0833	0.1041	1.2973	2.8300e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		237.9165	237.9165	0.0122		238.1726
Total	0.1360	0.6670	1.9251	4.2500e-003	0.2652	0.0110	0.2761	0.0711	0.0101	0.0812		380.0570	380.0570	0.0132		380.3345

3.3 Building Construction - 2017

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	0.3240	3.8465	1.3782	2.8200e-003		0.1715	0.1715		0.1578	0.1578		288.6190	288.6190	0.0884		290.4761
Total	0.3240	3.8465	1.3782	2.8200e-003		0.1715	0.1715		0.1578	0.1578		288.6190	288.6190	0.0884		290.4761

3.3 Building Construction - 2017

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	2.4600e-003	0.0383	0.0282	1.1000e-004	5.3100e-003	5.9000e-004	5.9000e-003	1.3800e-003	5.4000e-004	1.9200e-003		11.0378	11.0378	8.0000e-005		11.0395
Vendor	0.0459	0.4745	0.5629	1.3000e-003	0.0375	7.5500e-003	0.0451	0.0107	6.9400e-003	0.0176		128.8003	128.8003	9.1000e-004		128.8194
Worker	0.0749	0.0940	1.1741	2.8300e-003	0.2236	1.8000e-003	0.2254	0.0593	1.6600e-003	0.0610		228.8115	228.8115	0.0113		229.0479
Total	0.1233	0.6068	1.7651	4.2400e-003	0.2664	9.9400e-003	0.2763	0.0714	9.1400e-003	0.0805		368.6496	368.6496	0.0123		368.9068

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	0.3240	3.8465	1.3782	2.8200e-003		0.1715	0.1715		0.1578	0.1578	0.0000	288.6190	288.6190	0.0884		290.4761
Total	0.3240	3.8465	1.3782	2.8200e-003		0.1715	0.1715		0.1578	0.1578	0.0000	288.6190	288.6190	0.0884		290.4761

3.3 Building Construction - 2017

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	2.4600e-003	0.0383	0.0282	1.1000e-004	5.3100e-003	5.9000e-004	5.9000e-003	1.3800e-003	5.4000e-004	1.9200e-003		11.0378	11.0378	8.0000e-005		11.0395
Vendor	0.0459	0.4745	0.5629	1.3000e-003	0.0375	7.5500e-003	0.0451	0.0107	6.9400e-003	0.0176		128.8003	128.8003	9.1000e-004		128.8194
Worker	0.0749	0.0940	1.1741	2.8300e-003	0.2236	1.8000e-003	0.2254	0.0593	1.6600e-003	0.0610		228.8115	228.8115	0.0113		229.0479
Total	0.1233	0.6068	1.7651	4.2400e-003	0.2664	9.9400e-003	0.2763	0.0714	9.1400e-003	0.0805		368.6496	368.6496	0.0123		368.9068

3.4 Concrete - 2016

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	0.0833	0.1041	1.2973	2.8300e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		237.9165	237.9165	0.0122		238.1726
Total	0.0833	0.1041	1.2973	2.8300e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		237.9165	237.9165	0.0122		238.1726

3.4 Concrete - 2016

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	0.0833	0.1041	1.2973	2.8300e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		237.9165	237.9165	0.0122			238.1726
Total	0.0833	0.1041	1.2973	2.8300e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		237.9165	237.9165	0.0122			238.1726

3.4 Concrete - 2017

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	0.0749	0.0940	1.1741	2.8300e-003	0.2236	1.8000e-003	0.2254	0.0593	1.6600e-003	0.0610		228.8115	228.8115	0.0113			229.0479
Total	0.0749	0.0940	1.1741	2.8300e-003	0.2236	1.8000e-003	0.2254	0.0593	1.6600e-003	0.0610		228.8115	228.8115	0.0113			229.0479

3.4 Concrete - 2017

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	0.0749	0.0940	1.1741	2.8300e-003	0.2236	1.8000e-003	0.2254	0.0593	1.6600e-003	0.0610		228.8115	228.8115	0.0113		229.0479
Total	0.0749	0.0940	1.1741	2.8300e-003	0.2236	1.8000e-003	0.2254	0.0593	1.6600e-003	0.0610		228.8115	228.8115	0.0113		229.0479

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1528	0.4314	1.7630	4.5100e-003	0.3016	6.2800e-003	0.3079	0.0806	5.7800e-003	0.0864		383.6827	383.6827	0.0145		383.9877
Unmitigated	0.1528	0.4314	1.7630	4.5100e-003	0.3016	6.2800e-003	0.3079	0.0806	5.7800e-003	0.0864		383.6827	383.6827	0.0145		383.9877

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	44.15	44.15	44.15	142,224	142,224
Total	44.15	44.15	44.15	142,224	142,224

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 Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513125	0.060112	0.180262	0.139218	0.042100	0.006630	0.016061	0.030999	0.001941	0.002506	0.004348	0.000594	0.002104

5.0 Energy Detail

4.4 Fleet Mix

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
lb/day											lb/day					
NaturalGas Mitigated	0.0120	0.1089	0.0915	6.5000e-004		8.2800e-003	8.2800e-003		8.2800e-003	8.2800e-003		130.7020	130.7020	2.5100e-003	2.4000e-003	131.4975
NaturalGas Unmitigated	0.0120	0.1089	0.0915	6.5000e-004		8.2800e-003	8.2800e-003		8.2800e-003	8.2800e-003		130.7020	130.7020	2.5100e-003	2.4000e-003	131.4975

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1110.97	0.0120	0.1089	0.0915	6.5000e-004		8.2800e-003	8.2800e-003		8.2800e-003	8.2800e-003		130.7020	130.7020	2.5100e-003	2.4000e-003	131.4975
Total		0.0120	0.1089	0.0915	6.5000e-004		8.2800e-003	8.2800e-003		8.2800e-003	8.2800e-003		130.7020	130.7020	2.5100e-003	2.4000e-003	131.4975

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 Office Building	1.11097	0.0120	0.1089	0.0915	6.5000e-004		8.2800e-003	8.2800e-003		8.2800e-003	8.2800e-003		130.7020	130.7020	2.5100e-003	2.4000e-003	131.4975
Total		0.0120	0.1089	0.0915	6.5000e-004		8.2800e-003	8.2800e-003		8.2800e-003	8.2800e-003		130.7020	130.7020	2.5100e-003	2.4000e-003	131.4975

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9705	4.0000e-005	3.8600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.1200e-003	8.1200e-003	2.0000e-005		8.5900e-003
Unmitigated	0.9705	4.0000e-005	3.8600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.1200e-003	8.1200e-003	2.0000e-005		8.5900e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2356					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7346					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.7000e-004	4.0000e-005	3.8600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.1200e-003	8.1200e-003	2.0000e-005		8.5900e-003
Total	0.9705	4.0000e-005	3.8600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.1200e-003	8.1200e-003	2.0000e-005		8.5900e-003

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					
Consumer Products	0.7346					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.7000e-004	4.0000e-005	3.8600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.1200e-003	8.1200e-003	2.0000e-005		8.5900e-003
Architectural Coating	0.2356					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9705	4.0000e-005	3.8600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.1200e-003	8.1200e-003	2.0000e-005		8.5900e-003

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 Vegetation
