

Appendix A:
Air Quality Worksheets

**Santa Paula River Rock
Ventura County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	54.00	Dwelling Unit	9.70	97,200.00	165

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2018
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total developed lot area = 9.7 (19.27 total acres less 9.56 acres reserved for open space)

Construction Phase - Approximate construction schedule per applicant's info.

Grading - 9.7 acres disturbed per tract map.

Demolition - Square footage of 3 outbuildings to be demolished estimated per area of buiding footprints. Assessor's data does not specify sf of development.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Energy Star Appliances to be provided.

Water Mitigation - Incorporates water conservation mitigation measures to be conditioned as part of approval.

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	125.00
tblConstructionPhase	NumDays	230.00	310.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	40.00
tblGrading	AcresOfGrading	32.50	9.70
tblLandUse	LotAcreage	17.53	9.70
tblProjectCharacteristics	OperationalYear	2014	2018

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					
2015	5.3315	56.9647	43.4904	0.0423	18.2141	3.0895	21.3036	9.9699	2.8423	12.8122	0.0000	4,347.976 5	4,347.976 5	1.2355	0.0000	4,373.921 5
2016	3.5250	29.1567	19.9326	0.0300	0.1955	1.9782	2.1737	0.0526	1.8584	1.9110	0.0000	2,958.873 4	2,958.873 4	0.7048	0.0000	2,973.673 4
2017	8.2518	20.3469	15.3077	0.0238	0.1232	1.1393	1.2626	0.0327	1.0482	1.0809	0.0000	2,399.004 6	2,399.004 6	0.7045	0.0000	2,413.798 6
Total	17.1084	106.4682	78.7307	0.0961	18.5329	6.2070	24.7399	10.0552	5.7489	15.8041	0.0000	9,705.854 5	9,705.854 5	2.6447	0.0000	9,761.393 6

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					
2015	5.3315	56.9647	43.4904	0.0423	8.2777	3.0895	11.3672	4.5080	2.8423	7.3504	0.0000	4,347.976 5	4,347.976 5	1.2355	0.0000	4,373.921 5
2016	3.5250	29.1567	19.9326	0.0300	0.1955	1.9782	2.1737	0.0526	1.8584	1.9110	0.0000	2,958.873 4	2,958.873 4	0.7048	0.0000	2,973.673 4
2017	8.2518	20.3469	15.3077	0.0238	0.1232	1.1393	1.2626	0.0327	1.0482	1.0809	0.0000	2,399.004 6	2,399.004 6	0.7045	0.0000	2,413.798 6
Total	17.1084	106.4682	78.7307	0.0961	8.5964	6.2070	14.8034	4.5933	5.7489	10.3422	0.0000	9,705.854 5	9,705.854 5	2.6447	0.0000	9,761.393 6

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	53.62	0.00	40.16	54.32	0.00	34.56	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.4892	0.0521	4.4866	2.4000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	8.0218	8.0218	7.9500e-003	0.0000	8.1888
Energy	0.0461	0.3938	0.1676	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.7265	502.7265	9.6400e-003	9.2200e-003	505.7860
Mobile	1.6144	3.8738	16.0791	0.0440	3.1740	0.0510	3.2250	0.8461	0.0470	0.8931		3,612.1520	3,612.1520	0.1340		3,614.9651
Total	4.1497	4.3197	20.7332	0.0468	3.1740	0.1073	3.2813	0.8461	0.1033	0.9495	0.0000	4,122.9004	4,122.9004	0.1516	9.2200e-003	4,128.9399

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.4892	0.0521	4.4866	2.4000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	8.0218	8.0218	7.9500e-003	0.0000	8.1888
Energy	0.0461	0.3938	0.1676	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.7265	502.7265	9.6400e-003	9.2200e-003	505.7860
Mobile	1.6144	3.8738	16.0791	0.0440	3.1740	0.0510	3.2250	0.8461	0.0470	0.8931		3,612.1520	3,612.1520	0.1340		3,614.9651
Total	4.1497	4.3197	20.7332	0.0468	3.1740	0.1073	3.2813	0.8461	0.1033	0.9495	0.0000	4,122.9004	4,122.9004	0.1516	9.2200e-003	4,128.9399

	ROG	NOx	CO	SO2	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	6/1/2015	6/30/2015	5	22	
2	Site Preparation	Site Preparation	7/1/2015	7/14/2015	5	10	
3	Grading	Grading	7/15/2015	10/13/2015	5	65	
4	Building Construction	Building Construction	10/14/2015	12/20/2016	5	310	
5	Paving	Paving	12/21/2016	2/14/2017	5	40	
6	Architectural Coating	Architectural Coating	2/15/2017	8/8/2017	5	125	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 9.7

Acres of Paving: 0

Residential Indoor: 196,830; Residential Outdoor: 65,610; 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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	162	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	28.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	19.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2015

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					0.2741	0.0000	0.2741	0.0415	0.0000	0.0415			0.0000			0.0000
Off-Road	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399	0.2741	2.4508	2.7249	0.0415	2.2858	2.3273		4,127.1934	4,127.1934	1.1188		4,150.6886

3.2 Demolition - 2015

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	0.0243	0.4318	0.2694	9.2000e-004	0.0221	7.4900e-003	0.0296	6.0300e-003	6.8800e-003	0.0129		93.5801	93.5801	6.9000e-004		93.5945
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	0.0588	0.0625	0.7155	1.4700e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		127.2030	127.2030	6.6300e-003		127.3421
Total	0.0831	0.4943	0.9849	2.3900e-003	0.1453	8.4900e-003	0.1538	0.0387	7.8000e-003	0.0465		220.7831	220.7831	7.3200e-003		220.9366

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					0.1233	0.0000	0.1233	0.0187	0.0000	0.0187			0.0000			0.0000
Off-Road	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858	0.0000	4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399	0.1233	2.4508	2.5741	0.0187	2.2858	2.3045	0.0000	4,127.1934	4,127.1934	1.1188		4,150.6886

3.2 Demolition - 2015

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	0.0243	0.4318	0.2694	9.2000e-004	0.0221	7.4900e-003	0.0296	6.0300e-003	6.8800e-003	0.0129		93.5801	93.5801	6.9000e-004			93.5945
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	0.0588	0.0625	0.7155	1.4700e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		127.2030	127.2030	6.6300e-003			127.3421
Total	0.0831	0.4943	0.9849	2.3900e-003	0.1453	8.4900e-003	0.1538	0.0387	7.8000e-003	0.0465		220.7831	220.7831	7.3200e-003			220.9366

3.3 Site Preparation - 2015

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	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.744 4	4,111.744 4	1.2275		4,137.522 5
Total	5.2609	56.8897	42.6318	0.0391	18.0663	3.0883	21.1545	9.9307	2.8412	12.7719		4,111.744 4	4,111.744 4	1.2275		4,137.522 5

3.3 Site Preparation - 2015

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	0.0706	0.0750	0.8586	1.7600e-003	0.1479	1.2000e-003	0.1491	0.0392	1.1000e-003	0.0403		152.6436	152.6436	7.9500e-003			152.8106
Total	0.0706	0.0750	0.8586	1.7600e-003	0.1479	1.2000e-003	0.1491	0.0392	1.1000e-003	0.0403		152.6436	152.6436	7.9500e-003			152.8106

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000	
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412	0.0000	4,111.744 4	4,111.744 4	1.2275			4,137.522 4
Total	5.2609	56.8897	42.6318	0.0391	8.1298	3.0883	11.2181	4.4688	2.8412	7.3100	0.0000	4,111.744 4	4,111.744 4	1.2275			4,137.522 4

3.3 Site Preparation - 2015

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	0.0706	0.0750	0.8586	1.7600e-003	0.1479	1.2000e-003	0.1491	0.0392	1.1000e-003	0.0403		152.6436	152.6436	7.9500e-003		152.8106
Total	0.0706	0.0750	0.8586	1.7600e-003	0.1479	1.2000e-003	0.1491	0.0392	1.1000e-003	0.0403		152.6436	152.6436	7.9500e-003		152.8106

3.4 Grading - 2015

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					6.1804	0.0000	6.1804	3.3273	0.0000	3.3273			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421		3,129.0158	3,129.0158	0.9341		3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	6.1804	2.3284	8.5087	3.3273	2.1421	5.4694		3,129.0158	3,129.0158	0.9341		3,148.6328

3.4 Grading - 2015

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	0.0588	0.0625	0.7155	1.4700e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		127.2030	127.2030	6.6300e-003			127.3421
Total	0.0588	0.0625	0.7155	1.4700e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		127.2030	127.2030	6.6300e-003			127.3421

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					2.7812	0.0000	2.7812	1.4973	0.0000	1.4973			0.0000			0.0000	
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421	0.0000	3,129.0158	3,129.0158	0.9341			3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	2.7812	2.3284	5.1095	1.4973	2.1421	3.6394	0.0000	3,129.0158	3,129.0158	0.9341			3,148.6328

3.4 Grading - 2015

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	0.0588	0.0625	0.7155	1.4700e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		127.2030	127.2030	6.6300e-003		127.3421
Total	0.0588	0.0625	0.7155	1.4700e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		127.2030	127.2030	6.6300e-003		127.3421

3.5 Building Construction - 2015

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483

3.5 Building Construction - 2015

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	0.0584	0.6612	0.6607	1.3400e-003	0.0394	0.0119	0.0513	0.0112	0.0109	0.0221		135.5420	135.5420	1.0300e-003			135.5637
Worker	0.0745	0.0792	0.9063	1.8600e-003	0.1561	1.2700e-003	0.1574	0.0414	1.1600e-003	0.0426		161.1238	161.1238	8.3900e-003			161.3000
Total	0.1329	0.7404	1.5670	3.2000e-003	0.1955	0.0131	0.2086	0.0526	0.0121	0.0647		296.6658	296.6658	9.4200e-003			296.8637

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904	0.0000	2,689.5771	2,689.5771	0.6748			2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904	0.0000	2,689.5771	2,689.5771	0.6748			2,703.7483

3.5 Building Construction - 2015

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	0.0584	0.6612	0.6607	1.3400e-003	0.0394	0.0119	0.0513	0.0112	0.0109	0.0221		135.5420	135.5420	1.0300e-003			135.5637
Worker	0.0745	0.0792	0.9063	1.8600e-003	0.1561	1.2700e-003	0.1574	0.0414	1.1600e-003	0.0426		161.1238	161.1238	8.3900e-003			161.3000
Total	0.1329	0.7404	1.5670	3.2000e-003	0.1955	0.0131	0.2086	0.0526	0.0121	0.0647		296.6658	296.6658	9.4200e-003			296.8637

3.5 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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620			2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620			2,683.1890

3.5 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	0.0000	0.0000	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	0.0512	0.5793	0.6094	1.3400e-003	0.0395	9.5800e-003	0.0490	0.0112	8.8100e-003	0.0200		134.1614	134.1614	8.8000e-004			134.1800
Worker	0.0676	0.0711	0.8165	1.8600e-003	0.1561	1.2100e-003	0.1573	0.0414	1.1100e-003	0.0425		155.4256	155.4256	7.6800e-003			155.5869
Total	0.1188	0.6504	1.4260	3.2000e-003	0.1955	0.0108	0.2063	0.0526	9.9200e-003	0.0625		289.5870	289.5870	8.5600e-003			289.7668

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890

3.5 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	0.0000	0.0000	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	0.0512	0.5793	0.6094	1.3400e-003	0.0395	9.5800e-003	0.0490	0.0112	8.8100e-003	0.0200		134.1614	134.1614	8.8000e-004			134.1800
Worker	0.0676	0.0711	0.8165	1.8600e-003	0.1561	1.2100e-003	0.1573	0.0414	1.1100e-003	0.0425		155.4256	155.4256	7.6800e-003			155.5869
Total	0.1188	0.6504	1.4260	3.2000e-003	0.1955	0.0108	0.2063	0.0526	9.9200e-003	0.0625		289.5870	289.5870	8.5600e-003			289.7668

3.6 Paving - 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	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987			2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987			2,331.0495

3.6 Paving - 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	0.0534	0.0561	0.6446	1.4700e-003	0.1232	9.5000e-004	0.1242	0.0327	8.8000e-004	0.0336		122.7044	122.7044	6.0600e-003		122.8317
Total	0.0534	0.0561	0.6446	1.4700e-003	0.1232	9.5000e-004	0.1242	0.0327	8.8000e-004	0.0336		122.7044	122.7044	6.0600e-003		122.8317

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601	0.0000	2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601	0.0000	2,316.3767	2,316.3767	0.6987		2,331.0495

3.6 Paving - 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	0.0534	0.0561	0.6446	1.4700e-003	0.1232	9.5000e-004	0.1242	0.0327	8.8000e-004	0.0336		122.7044	122.7044	6.0600e-003			122.8317
Total	0.0534	0.0561	0.6446	1.4700e-003	0.1232	9.5000e-004	0.1242	0.0327	8.8000e-004	0.0336		122.7044	122.7044	6.0600e-003			122.8317

3.6 Paving - 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	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989			2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989			2,295.7360

3.6 Paving - 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	0.0483	0.0505	0.5807	1.4700e-003	0.1232	9.2000e-004	0.1241	0.0327	8.5000e-004	0.0335		117.9458	117.9458	5.5600e-003			118.0627
Total	0.0483	0.0505	0.5807	1.4700e-003	0.1232	9.2000e-004	0.1241	0.0327	8.5000e-004	0.0335		117.9458	117.9458	5.5600e-003			118.0627

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	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989			2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989			2,295.7360

3.6 Paving - 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	0.0483	0.0505	0.5807	1.4700e-003	0.1232	9.2000e-004	0.1241	0.0327	8.5000e-004	0.0335		117.9458	117.9458	5.5600e-003			118.0627
Total	0.0483	0.0505	0.5807	1.4700e-003	0.1232	9.2000e-004	0.1241	0.0327	8.5000e-004	0.0335		117.9458	117.9458	5.5600e-003			118.0627

3.7 Architectural Coating - 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						
Archit. Coating	7.9067					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721
Total	8.2390	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721

3.7 Architectural Coating - 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	0.0129	0.0135	0.1549	3.9000e-004	0.0329	2.5000e-004	0.0331	8.7200e-003	2.3000e-004	8.9400e-003		31.4522	31.4522	1.4800e-003			31.4834
Total	0.0129	0.0135	0.1549	3.9000e-004	0.0329	2.5000e-004	0.0331	8.7200e-003	2.3000e-004	8.9400e-003		31.4522	31.4522	1.4800e-003			31.4834

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	7.9067					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297			282.0721
Total	8.2390	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297			282.0721

3.7 Architectural Coating - 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	0.0129	0.0135	0.1549	3.9000e-004	0.0329	2.5000e-004	0.0331	8.7200e-003	2.3000e-004	8.9400e-003		31.4522	31.4522	1.4800e-003			31.4834
Total	0.0129	0.0135	0.1549	3.9000e-004	0.0329	2.5000e-004	0.0331	8.7200e-003	2.3000e-004	8.9400e-003		31.4522	31.4522	1.4800e-003			31.4834

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	1.6144	3.8738	16.0791	0.0440	3.1740	0.0510	3.2250	0.8461	0.0470	0.8931		3,612.1520	3,612.1520	0.1340		3,614.9651
Unmitigated	1.6144	3.8738	16.0791	0.0440	3.1740	0.0510	3.2250	0.8461	0.0470	0.8931		3,612.1520	3,612.1520	0.1340		3,614.9651

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	516.78	544.32	473.58	1,421,719	1,421,719
Total	516.78	544.32	473.58	1,421,719	1,421,719

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.475011	0.063009	0.180574	0.158011	0.069740	0.010288	0.013503	0.017378	0.000770	0.000675	0.005608	0.000318	0.005113

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0461	0.3938	0.1676	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.7265	502.7265	9.6400e-003	9.2200e-003	505.7860
NaturalGas Unmitigated	0.0461	0.3938	0.1676	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.7265	502.7265	9.6400e-003	9.2200e-003	505.7860

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					
Single Family Housing	4273.18	0.0461	0.3938	0.1676	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.7265	502.7265	9.6400e-003	9.2200e-003	505.7860
Total		0.0461	0.3938	0.1676	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.7265	502.7265	9.6400e-003	9.2200e-003	505.7860

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					
Single Family Housing	4.27318	0.0461	0.3938	0.1676	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.7265	502.7265	9.6400e-003	9.2200e-003	505.7860
Total		0.0461	0.3938	0.1676	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.7265	502.7265	9.6400e-003	9.2200e-003	505.7860

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.4892	0.0521	4.4866	2.4000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	8.0218	8.0218	7.9500e-003	0.0000	8.1888
Unmitigated	2.4892	0.0521	4.4866	2.4000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	8.0218	8.0218	7.9500e-003	0.0000	8.1888

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	0.2708					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0801					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1383	0.0521	4.4866	2.4000e-004		0.0245	0.0245		0.0245	0.0245		8.0218	8.0218	7.9500e-003		8.1888
Total	2.4892	0.0521	4.4866	2.4000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	8.0218	8.0218	7.9500e-003	0.0000	8.1888

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	0.2708					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0801					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1383	0.0521	4.4866	2.4000e-004		0.0245	0.0245		0.0245	0.0245		8.0218	8.0218	7.9500e-003		8.1888
Total	2.4892	0.0521	4.4866	2.4000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	8.0218	8.0218	7.9500e-003	0.0000	8.1888

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Santa Paula River Rock
Ventura County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	54.00	Dwelling Unit	9.70	97,200.00	165

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2018
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total developed lot area = 9.7 (19.27 total acres less 9.56 acres reserved for open space)

Construction Phase - Approximate construction schedule per applicant's info.

Grading - 9.7 acres disturbed per tract map.

Demolition - Square footage of 3 outbuildings to be demolished estimated per area of buiding footprints. Assessor's data does not specify sf of development.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Energy Star Appliances to be provided.

Water Mitigation - Incorporates water conservation mitigation measures to be conditioned as part of approval.

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	125.00
tblConstructionPhase	NumDays	230.00	310.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	40.00
tblGrading	AcresOfGrading	32.50	9.70
tblLandUse	LotAcreage	17.53	9.70
tblProjectCharacteristics	OperationalYear	2014	2018

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					
2015	5.3373	56.9774	43.5032	0.0422	18.2141	3.0895	21.3036	9.9699	2.8423	12.8122	0.0000	4,341.6558	4,341.6558	1.2355	0.0000	4,367.6009
2016	3.5402	29.1858	20.1737	0.0299	0.1955	1.9783	2.1738	0.0526	1.8585	1.9111	0.0000	2,950.3251	2,950.3251	0.7048	0.0000	2,965.1252
2017	8.2528	20.3555	15.3100	0.0237	0.1232	1.1393	1.2626	0.0327	1.0482	1.0809	0.0000	2,393.3407	2,393.3407	0.7045	0.0000	2,408.1347
Total	17.1302	106.5188	78.9869	0.0958	18.5329	6.2071	24.7400	10.0552	5.7490	15.8042	0.0000	9,685.3217	9,685.3217	2.6447	0.0000	9,740.8608

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					
2015	5.3373	56.9774	43.5032	0.0422	8.2777	3.0895	11.3672	4.5080	2.8423	7.3504	0.0000	4,341.6558	4,341.6558	1.2355	0.0000	4,367.6009
2016	3.5402	29.1858	20.1737	0.0299	0.1955	1.9783	2.1738	0.0526	1.8585	1.9111	0.0000	2,950.3251	2,950.3251	0.7048	0.0000	2,965.1252
2017	8.2528	20.3555	15.3100	0.0237	0.1232	1.1393	1.2626	0.0327	1.0482	1.0809	0.0000	2,393.3407	2,393.3407	0.7045	0.0000	2,408.1347
Total	17.1302	106.5188	78.9869	0.0958	8.5964	6.2071	14.8035	4.5933	5.7490	10.3423	0.0000	9,685.3217	9,685.3217	2.6447	0.0000	9,740.8608

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	53.62	0.00	40.16	54.32	0.00	34.56	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.4892	0.0521	4.4866	2.4000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	8.0218	8.0218	7.9500e-003	0.0000	8.1888
Energy	0.0461	0.3938	0.1676	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.7265	502.7265	9.6400e-003	9.2200e-003	505.7860
Mobile	1.7344	4.1883	17.4550	0.0423	3.1740	0.0513	3.2253	0.8461	0.0472	0.8934		3,475.9546	3,475.9546	0.1341		3,478.7696
Total	4.2697	4.6342	22.1091	0.0451	3.1740	0.1076	3.2816	0.8461	0.1036	0.9497	0.0000	3,986.7030	3,986.7030	0.1516	9.2200e-003	3,992.7444

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.4892	0.0521	4.4866	2.4000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	8.0218	8.0218	7.9500e-003	0.0000	8.1888
Energy	0.0461	0.3938	0.1676	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.7265	502.7265	9.6400e-003	9.2200e-003	505.7860
Mobile	1.7344	4.1883	17.4550	0.0423	3.1740	0.0513	3.2253	0.8461	0.0472	0.8934		3,475.9546	3,475.9546	0.1341		3,478.7696
Total	4.2697	4.6342	22.1091	0.0451	3.1740	0.1076	3.2816	0.8461	0.1036	0.9497	0.0000	3,986.7030	3,986.7030	0.1516	9.2200e-003	3,992.7444

	ROG	NOx	CO	SO2	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	6/1/2015	6/30/2015	5	22	
2	Site Preparation	Site Preparation	7/1/2015	7/14/2015	5	10	
3	Grading	Grading	7/15/2015	10/13/2015	5	65	
4	Building Construction	Building Construction	10/14/2015	12/20/2016	5	310	
5	Paving	Paving	12/21/2016	2/14/2017	5	40	
6	Architectural Coating	Architectural Coating	2/15/2017	8/8/2017	5	125	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 9.7

Acres of Paving: 0

Residential Indoor: 196,830; Residential Outdoor: 65,610; 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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	162	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	28.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	19.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2015

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					0.2741	0.0000	0.2741	0.0415	0.0000	0.0415			0.0000			0.0000
Off-Road	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399	0.2741	2.4508	2.7249	0.0415	2.2858	2.3273		4,127.1934	4,127.1934	1.1188		4,150.6886

3.2 Demolition - 2015

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	0.0274	0.4477	0.3383	9.2000e-004	0.0221	7.5200e-003	0.0296	6.0300e-003	6.9100e-003	0.0130		93.3538	93.3538	7.0000e-004		93.3684
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	0.0636	0.0731	0.7262	1.4000e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		121.1087	121.1087	6.6300e-003		121.2478
Total	0.0910	0.5209	1.0645	2.3200e-003	0.1453	8.5200e-003	0.1538	0.0387	7.8300e-003	0.0466		214.4624	214.4624	7.3300e-003		214.6162

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					0.1233	0.0000	0.1233	0.0187	0.0000	0.0187			0.0000			0.0000
Off-Road	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858	0.0000	4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399	0.1233	2.4508	2.5741	0.0187	2.2858	2.3045	0.0000	4,127.1934	4,127.1934	1.1188		4,150.6886

3.2 Demolition - 2015

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	0.0274	0.4477	0.3383	9.2000e-004	0.0221	7.5200e-003	0.0296	6.0300e-003	6.9100e-003	0.0130		93.3538	93.3538	7.0000e-004		93.3684
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	0.0636	0.0731	0.7262	1.4000e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		121.1087	121.1087	6.6300e-003		121.2478
Total	0.0910	0.5209	1.0645	2.3200e-003	0.1453	8.5200e-003	0.1538	0.0387	7.8300e-003	0.0466		214.4624	214.4624	7.3300e-003		214.6162

3.3 Site Preparation - 2015

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	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.744 4	4,111.744 4	1.2275		4,137.522 5
Total	5.2609	56.8897	42.6318	0.0391	18.0663	3.0883	21.1545	9.9307	2.8412	12.7719		4,111.744 4	4,111.744 4	1.2275		4,137.522 5

3.3 Site Preparation - 2015

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	0.0764	0.0878	0.8715	1.6800e-003	0.1479	1.2000e-003	0.1491	0.0392	1.1000e-003	0.0403		145.3304	145.3304	7.9500e-003			145.4974
Total	0.0764	0.0878	0.8715	1.6800e-003	0.1479	1.2000e-003	0.1491	0.0392	1.1000e-003	0.0403		145.3304	145.3304	7.9500e-003			145.4974

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412	0.0000	4,111.744 4	4,111.744 4	1.2275		4,137.522 4
Total	5.2609	56.8897	42.6318	0.0391	8.1298	3.0883	11.2181	4.4688	2.8412	7.3100	0.0000	4,111.744 4	4,111.744 4	1.2275		4,137.522 4

3.3 Site Preparation - 2015

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	0.0764	0.0878	0.8715	1.6800e-003	0.1479	1.2000e-003	0.1491	0.0392	1.1000e-003	0.0403		145.3304	145.3304	7.9500e-003			145.4974
Total	0.0764	0.0878	0.8715	1.6800e-003	0.1479	1.2000e-003	0.1491	0.0392	1.1000e-003	0.0403		145.3304	145.3304	7.9500e-003			145.4974

3.4 Grading - 2015

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					6.1804	0.0000	6.1804	3.3273	0.0000	3.3273			0.0000			0.0000	
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421		3,129.0158	3,129.0158	0.9341			3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	6.1804	2.3284	8.5087	3.3273	2.1421	5.4694		3,129.0158	3,129.0158	0.9341			3,148.6328

3.4 Grading - 2015

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	0.0636	0.0731	0.7262	1.4000e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		121.1087	121.1087	6.6300e-003			121.2478
Total	0.0636	0.0731	0.7262	1.4000e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		121.1087	121.1087	6.6300e-003			121.2478

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					2.7812	0.0000	2.7812	1.4973	0.0000	1.4973			0.0000			0.0000	
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421	0.0000	3,129.0158	3,129.0158	0.9341			3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	2.7812	2.3284	5.1095	1.4973	2.1421	3.6394	0.0000	3,129.0158	3,129.0158	0.9341			3,148.6328

3.4 Grading - 2015

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	0.0636	0.0731	0.7262	1.4000e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		121.1087	121.1087	6.6300e-003			121.2478
Total	0.0636	0.0731	0.7262	1.4000e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		121.1087	121.1087	6.6300e-003			121.2478

3.5 Building Construction - 2015

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748			2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748			2,703.7483

3.5 Building Construction - 2015

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	0.0696	0.6810	0.8976	1.3300e-003	0.0394	0.0120	0.0515	0.0112	0.0111	0.0223		134.4422	134.4422	1.0600e-003			134.4644
Worker	0.0806	0.0927	0.9199	1.7700e-003	0.1561	1.2700e-003	0.1574	0.0414	1.1600e-003	0.0426		153.4043	153.4043	8.3900e-003			153.5806
Total	0.1503	0.7736	1.8175	3.1000e-003	0.1955	0.0133	0.2088	0.0526	0.0122	0.0648		287.8464	287.8464	9.4500e-003			288.0450

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904	0.0000	2,689.5771	2,689.5771	0.6748			2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904	0.0000	2,689.5771	2,689.5771	0.6748			2,703.7483

3.5 Building Construction - 2015

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	0.0696	0.6810	0.8976	1.3300e-003	0.0394	0.0120	0.0515	0.0112	0.0111	0.0223		134.4422	134.4422	1.0600e-003		134.4644
Worker	0.0806	0.0927	0.9199	1.7700e-003	0.1561	1.2700e-003	0.1574	0.0414	1.1600e-003	0.0426		153.4043	153.4043	8.3900e-003		153.5806
Total	0.1503	0.7736	1.8175	3.1000e-003	0.1955	0.0133	0.2088	0.0526	0.0122	0.0648		287.8464	287.8464	9.4500e-003		288.0450

3.5 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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

3.5 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	0.0000	0.0000	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	0.0611	0.5963	0.8425	1.3300e-003	0.0395	9.7000e-003	0.0492	0.0112	8.9200e-003	0.0201		133.0675	133.0675	9.1000e-004			133.0867
Worker	0.0729	0.0832	0.8246	1.7700e-003	0.1561	1.2100e-003	0.1573	0.0414	1.1100e-003	0.0425		147.9712	147.9712	7.6800e-003			148.1325
Total	0.1339	0.6795	1.6671	3.1000e-003	0.1955	0.0109	0.2064	0.0526	0.0100	0.0626		281.0388	281.0388	8.5900e-003			281.2191

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890

3.5 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	0.0000	0.0000	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	0.0611	0.5963	0.8425	1.3300e-003	0.0395	9.7000e-003	0.0492	0.0112	8.9200e-003	0.0201		133.0675	133.0675	9.1000e-004			133.0867
Worker	0.0729	0.0832	0.8246	1.7700e-003	0.1561	1.2100e-003	0.1573	0.0414	1.1100e-003	0.0425		147.9712	147.9712	7.6800e-003			148.1325
Total	0.1339	0.6795	1.6671	3.1000e-003	0.1955	0.0109	0.2064	0.0526	0.0100	0.0626		281.0388	281.0388	8.5900e-003			281.2191

3.6 Paving - 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	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987			2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987			2,331.0495

3.6 Paving - 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	0.0575	0.0657	0.6510	1.4000e-003	0.1232	9.5000e-004	0.1242	0.0327	8.8000e-004	0.0336		116.8194	116.8194	6.0600e-003			116.9467
Total	0.0575	0.0657	0.6510	1.4000e-003	0.1232	9.5000e-004	0.1242	0.0327	8.8000e-004	0.0336		116.8194	116.8194	6.0600e-003			116.9467

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601	0.0000	2,316.3767	2,316.3767	0.6987			2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601	0.0000	2,316.3767	2,316.3767	0.6987			2,331.0495

3.6 Paving - 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	0.0575	0.0657	0.6510	1.4000e-003	0.1232	9.5000e-004	0.1242	0.0327	8.8000e-004	0.0336		116.8194	116.8194	6.0600e-003			116.9467
Total	0.0575	0.0657	0.6510	1.4000e-003	0.1232	9.5000e-004	0.1242	0.0327	8.8000e-004	0.0336		116.8194	116.8194	6.0600e-003			116.9467

3.6 Paving - 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	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989			2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989			2,295.7360

3.6 Paving - 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	0.0518	0.0591	0.5829	1.4000e-003	0.1232	9.2000e-004	0.1241	0.0327	8.5000e-004	0.0335		112.2819	112.2819	5.5600e-003			112.3988
Total	0.0518	0.0591	0.5829	1.4000e-003	0.1232	9.2000e-004	0.1241	0.0327	8.5000e-004	0.0335		112.2819	112.2819	5.5600e-003			112.3988

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	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989			2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989			2,295.7360

3.6 Paving - 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	0.0518	0.0591	0.5829	1.4000e-003	0.1232	9.2000e-004	0.1241	0.0327	8.5000e-004	0.0335		112.2819	112.2819	5.5600e-003			112.3988
Total	0.0518	0.0591	0.5829	1.4000e-003	0.1232	9.2000e-004	0.1241	0.0327	8.5000e-004	0.0335		112.2819	112.2819	5.5600e-003			112.3988

3.7 Architectural Coating - 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						
Archit. Coating	7.9067					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721
Total	8.2390	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721

3.7 Architectural Coating - 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	0.0138	0.0158	0.1555	3.7000e-004	0.0329	2.5000e-004	0.0331	8.7200e-003	2.3000e-004	8.9400e-003		29.9419	29.9419	1.4800e-003			29.9730
Total	0.0138	0.0158	0.1555	3.7000e-004	0.0329	2.5000e-004	0.0331	8.7200e-003	2.3000e-004	8.9400e-003		29.9419	29.9419	1.4800e-003			29.9730

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	7.9067					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297			282.0721
Total	8.2390	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297			282.0721

3.7 Architectural Coating - 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	0.0138	0.0158	0.1555	3.7000e-004	0.0329	2.5000e-004	0.0331	8.7200e-003	2.3000e-004	8.9400e-003		29.9419	29.9419	1.4800e-003			29.9730
Total	0.0138	0.0158	0.1555	3.7000e-004	0.0329	2.5000e-004	0.0331	8.7200e-003	2.3000e-004	8.9400e-003		29.9419	29.9419	1.4800e-003			29.9730

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	1.7344	4.1883	17.4550	0.0423	3.1740	0.0513	3.2253	0.8461	0.0472	0.8934		3,475.9546	3,475.9546	0.1341			3,478.7696
Unmitigated	1.7344	4.1883	17.4550	0.0423	3.1740	0.0513	3.2253	0.8461	0.0472	0.8934		3,475.9546	3,475.9546	0.1341			3,478.7696

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	516.78	544.32	473.58	1,421,719	1,421,719
Total	516.78	544.32	473.58	1,421,719	1,421,719

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.475011	0.063009	0.180574	0.158011	0.069740	0.010288	0.013503	0.017378	0.000770	0.000675	0.005608	0.000318	0.005113

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0461	0.3938	0.1676	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.7265	502.7265	9.6400e-003	9.2200e-003	505.7860
NaturalGas Unmitigated	0.0461	0.3938	0.1676	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.7265	502.7265	9.6400e-003	9.2200e-003	505.7860

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					
Single Family Housing	4273.18	0.0461	0.3938	0.1676	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.7265	502.7265	9.6400e-003	9.2200e-003	505.7860
Total		0.0461	0.3938	0.1676	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.7265	502.7265	9.6400e-003	9.2200e-003	505.7860

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					
Single Family Housing	4.27318	0.0461	0.3938	0.1676	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.7265	502.7265	9.6400e-003	9.2200e-003	505.7860
Total		0.0461	0.3938	0.1676	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.7265	502.7265	9.6400e-003	9.2200e-003	505.7860

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.4892	0.0521	4.4866	2.4000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	8.0218	8.0218	7.9500e-003	0.0000	8.1888
Unmitigated	2.4892	0.0521	4.4866	2.4000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	8.0218	8.0218	7.9500e-003	0.0000	8.1888

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	0.2708					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0801					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1383	0.0521	4.4866	2.4000e-004		0.0245	0.0245		0.0245	0.0245		8.0218	8.0218	7.9500e-003		8.1888
Total	2.4892	0.0521	4.4866	2.4000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	8.0218	8.0218	7.9500e-003	0.0000	8.1888

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	0.2708					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0801					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1383	0.0521	4.4866	2.4000e-004		0.0245	0.0245		0.0245	0.0245		8.0218	8.0218	7.9500e-003		8.1888
Total	2.4892	0.0521	4.4866	2.4000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	8.0218	8.0218	7.9500e-003	0.0000	8.1888

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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