Appendix A Air Quality Data

Beach and Ellis EIR - Existing Land Use

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	4	1000sqft
Parking Lot	144	Space
Convenience Market With Gas Pumps	10	Pump
Strip Mall	22.08	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Utility Company**	Southern California Edison
Climate Zone	8	**Precipitation Freq (Days)**	30		

1.3 User Entered Comments

Project Characteristics - SCE Emission Factors updated to reflect most recent (2007) eGrid numbers.
Land Use - 2.74 equals total lot acreage
Construction Phase - No Construction for Existing Analysis
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Demolition -
Grading - 2.74 equals total site acreage
Woodstoves - No fireplaces
Energy Use -
Solid Waste - Landfill has gas collection
Construction Off-road Equipment Mitigation -
Mobile Land Use Mitigation -
Area Mitigation -
Water Mitigation -
Waste Mitigation -

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					
2011	197.76	43.54	26.50	0.04	6.71	2.72	9.43	0.03	2.72	2.75	0.00	4,101.00	0.00	0.59	0.00	4,113.32
2012	197.71	3.21	2.44	0.00	0.11	0.29	0.40	0.00	0.29	0.30	0.00	362.59	0.00	0.05	0.00	363.68
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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					
2011	197.76	43.54	26.50	0.04	6.71	2.72	9.43	0.03	2.72	2.75	0.00	4,101.00	0.00	0.59	0.00	4,113.32
2012	197.71	3.21	2.44	0.00	0.11	0.29	0.40	0.00	0.29	0.30	0.00	362.59	0.00	0.05	0.00	363.68
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	2.22	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00		27.89		0.00	0.00	28.06
Mobile	18.20	14.40	71.20	0.09	10.64	0.48	11.12	0.36	0.48	0.83		9,469.00		0.53		9,480.08
Total	**20.42**	**14.42**	**71.22**	**0.09**	**10.64**	**0.48**	**11.12**	**0.36**	**0.48**	**0.83**		**9,496.89**		**0.53**	**0.00**	**9,508.14**

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	2.22	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00		27.89		0.00	0.00	28.06
Mobile	18.20	14.40	71.20	0.09	10.64	0.48	11.12	0.36	0.48	0.83		9,469.00		0.53		9,480.08
Total	**20.42**	**14.42**	**71.22**	**0.09**	**10.64**	**0.48**	**11.12**	**0.36**	**0.48**	**0.83**		**9,496.89**		**0.53**	**0.00**	**9,508.14**

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.2 Demolition - 2011

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	5.76	43.43	25.53	0.04		2.72	2.72		2.72	2.72		3,946.48		0.52		3,957.35
Total	**5.76**	**43.43**	**25.53**	**0.04**		**2.72**	**2.72**		**2.72**	**2.72**		**3,946.48**		**0.52**		**3,957.35**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.30	0.11	0.97	0.00	0.20	0.01	0.21	0.01	0.01	0.01		154.52		0.01		154.73
Total	**0.30**	**0.11**	**0.97**	**0.00**	**0.20**	**0.01**	**0.21**	**0.01**	**0.01**	**0.01**		**154.52**		**0.01**		**154.73**

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	5.76	43.43	25.53	0.04		2.72	2.72		2.72	2.72	0.00	3,946.48		0.52		3,957.35
Total	**5.76**	**43.43**	**25.53**	**0.04**		**2.72**	**2.72**		**2.72**	**2.72**	**0.00**	**3,946.48**		**0.52**		**3,957.35**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.30	0.11	0.97	0.00	0.20	0.01	0.21	0.01	0.01	0.01		154.52		0.01		154.73
Total	**0.30**	**0.11**	**0.97**	**0.00**	**0.20**	**0.01**	**0.21**	**0.01**	**0.01**	**0.01**		**154.52**		**0.01**		**154.73**

3.3 Site Preparation - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.59	0.00	1.59	0.00	0.00	0.00						0.00
Off-Road	4.68	39.52	19.60	0.04		1.95	1.95		1.95	1.95		3,917.77		0.42		3,926.57
Total	**4.68**	**39.52**	**19.60**	**0.04**	**1.59**	**1.95**	**3.54**	**0.00**	**1.95**	**1.95**		**3,917.77**		**0.42**		**3,926.57**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.19	0.06	0.60	0.00	0.12	0.00	0.13	0.00	0.00	0.01		95.09		0.01		95.22
Total	**0.19**	**0.06**	**0.60**	**0.00**	**0.12**	**0.00**	**0.13**	**0.00**	**0.00**	**0.01**		**95.09**		**0.01**		**95.22**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.59	0.00	1.59	0.00	0.00	0.00						0.00
Off-Road	4.68	39.52	19.60	0.04		1.95	1.95		1.95	1.95	0.00	3,917.77		0.42		3,926.57
Total	**4.68**	**39.52**	**19.60**	**0.04**	**1.59**	**1.95**	**3.54**	**0.00**	**1.95**	**1.95**	**0.00**	**3,917.77**		**0.42**		**3,926.57**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.19	0.06	0.60	0.00	0.12	0.00	0.13	0.00	0.00	0.01		95.09		0.01		95.22
Total	**0.19**	**0.06**	**0.60**	**0.00**	**0.12**	**0.00**	**0.13**	**0.00**	**0.00**	**0.01**		**95.09**		**0.01**		**95.22**

3.4 Grading - 2011

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					6.55	0.00	6.55	0.00	0.00	0.00						0.00
Off-Road	5.25	41.83	23.91	0.04		2.29	2.29		2.29	2.29		3,827.59		0.47		3,837.50
Total	**5.25**	**41.83**	**23.91**	**0.04**	**6.55**	**2.29**	**8.84**	**0.00**	**2.29**	**2.29**		**3,827.59**		**0.47**		**3,837.50**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.23	0.08	0.75	0.00	0.15	0.00	0.16	0.01	0.00	0.01		118.86		0.01		119.02
Total	**0.23**	**0.08**	**0.75**	**0.00**	**0.15**	**0.00**	**0.16**	**0.01**	**0.00**	**0.01**		**118.86**		**0.01**		**119.02**

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					6.55	0.00	6.55	0.00	0.00	0.00						0.00
Off-Road	5.25	41.83	23.91	0.04		2.29	2.29		2.29	2.29	0.00	3,827.59		0.47		3,837.50
Total	**5.25**	**41.83**	**23.91**	**0.04**	**6.55**	**2.29**	**8.84**	**0.00**	**2.29**	**2.29**	**0.00**	**3,827.59**		**0.47**		**3,837.50**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.23	0.08	0.75	0.00	0.15	0.00	0.16	0.01	0.00	0.01		118.86		0.01		119.02
Total	**0.23**	**0.08**	**0.75**	**0.00**	**0.15**	**0.00**	**0.16**	**0.01**	**0.00**	**0.01**		**118.86**		**0.01**		**119.02**

3.5 Building Construction - 2011

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	6.12	32.66	20.36	0.04		2.25	2.25		2.25	2.25		3,233.11		0.55		3,244.65
Total	**6.12**	**32.66**	**20.36**	**0.04**		**2.25**	**2.25**		**2.25**	**2.25**		**3,233.11**		**0.55**		**3,244.65**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.32	2.75	1.87	0.00	0.13	0.09	0.22	0.01	0.09	0.10		372.34		0.01		372.60
Worker	0.77	0.27	2.47	0.00	0.51	0.02	0.52	0.02	0.02	0.03		392.25		0.02		392.77
Total	**1.09**	**3.02**	**4.34**	**0.00**	**0.64**	**0.11**	**0.74**	**0.03**	**0.11**	**0.13**		**764.59**		**0.03**		**765.37**

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	6.12	32.66	20.36	0.04		2.25	2.25		2.25	2.25	0.00	3,233.11		0.55		3,244.65
Total	**6.12**	**32.66**	**20.36**	**0.04**		**2.25**	**2.25**		**2.25**	**2.25**	**0.00**	**3,233.11**		**0.55**		**3,244.65**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.32	2.75	1.87	0.00	0.13	0.09	0.22	0.01	0.09	0.10		372.34		0.01		372.60
Worker	0.77	0.27	2.47	0.00	0.51	0.02	0.52	0.02	0.02	0.03		392.25		0.02		392.77
Total	**1.09**	**3.02**	**4.34**	**0.00**	**0.64**	**0.11**	**0.74**	**0.03**	**0.11**	**0.13**		**764.59**		**0.03**		**765.37**

3.6 Paving - 2011

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	4.73	28.96	17.13	0.03		2.54	2.54		2.54	2.54		2,393.42		0.42		2,402.32
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**4.73**	**28.96**	**17.13**	**0.03**		**2.54**	**2.54**		**2.54**	**2.54**		**2,393.42**		**0.42**		**2,402.32**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.35	0.12	1.12	0.00	0.23	0.01	0.24	0.01	0.01	0.02		178.29		0.01		178.53
Total	**0.35**	**0.12**	**1.12**	**0.00**	**0.23**	**0.01**	**0.24**	**0.01**	**0.01**	**0.02**		**178.29**		**0.01**		**178.53**

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	4.73	28.96	17.13	0.03		2.54	2.54		2.54	2.54	0.00	2,393.42		0.42		2,402.32
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**4.73**	**28.96**	**17.13**	**0.03**		**2.54**	**2.54**		**2.54**	**2.54**	**0.00**	**2,393.42**		**0.42**		**2,402.32**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.35	0.12	1.12	0.00	0.23	0.01	0.24	0.01	0.01	0.02		178.29		0.01		178.53
Total	**0.35**	**0.12**	**1.12**	**0.00**	**0.23**	**0.01**	**0.24**	**0.01**	**0.01**	**0.02**		**178.29**		**0.01**		**178.53**

3.7 Architectural Coating - 2011

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	197.03					0.00	0.00		0.00	0.00						0.00
Off-Road	0.56	3.37	1.98	0.00		0.31	0.31		0.31	0.31		281.19		0.05		282.25
Total	**197.59**	**3.37**	**1.98**	**0.00**		**0.31**	**0.31**		**0.31**	**0.31**		**281.19**		**0.05**		**282.25**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.16	0.06	0.52	0.00	0.11	0.00	0.11	0.00	0.00	0.01		83.20		0.01		83.31
Total	**0.16**	**0.06**	**0.52**	**0.00**	**0.11**	**0.00**	**0.11**	**0.00**	**0.00**	**0.01**		**83.20**		**0.01**		**83.31**

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	197.03					0.00	0.00		0.00	0.00						0.00
Off-Road	0.56	3.37	1.98	0.00		0.31	0.31		0.31	0.31	0.00	281.19		0.05		282.25
Total	**197.59**	**3.37**	**1.98**	**0.00**		**0.31**	**0.31**		**0.31**	**0.31**	**0.00**	**281.19**		**0.05**		**282.25**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.16	0.06	0.52	0.00	0.11	0.00	0.11	0.00	0.00	0.01		83.20		0.01		83.31
Total	**0.16**	**0.06**	**0.52**	**0.00**	**0.11**	**0.00**	**0.11**	**0.00**	**0.00**	**0.01**		**83.20**		**0.01**		**83.31**

3.7 Architectural Coating - 2012

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	197.03					0.00	0.00		0.00	0.00						0.00
Off-Road	0.52	3.16	1.96	0.00		0.29	0.29		0.29	0.29		281.19		0.05		282.18
Total	**197.55**	**3.16**	**1.96**	**0.00**		**0.29**	**0.29**		**0.29**	**0.29**		**281.19**		**0.05**		**282.18**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.15	0.05	0.48	0.00	0.11	0.00	0.11	0.00	0.00	0.01		81.40		0.00		81.50
Total	**0.15**	**0.05**	**0.48**	**0.00**	**0.11**	**0.00**	**0.11**	**0.00**	**0.00**	**0.01**		**81.40**		**0.00**		**81.50**

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	197.03					0.00	0.00		0.00	0.00						0.00
Off-Road	0.52	3.16	1.96	0.00		0.29	0.29		0.29	0.29	0.00	281.19		0.05		282.18
Total	**197.55**	**3.16**	**1.96**	**0.00**		**0.29**	**0.29**		**0.29**	**0.29**	**0.00**	**281.19**		**0.05**		**282.18**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.15	0.05	0.48	0.00	0.11	0.00	0.11	0.00	0.00	0.01		81.40		0.00		81.50
Total	**0.15**	**0.05**	**0.48**	**0.00**	**0.11**	**0.00**	**0.11**	**0.00**	**0.00**	**0.01**		**81.40**		**0.00**		**81.50**

4.0 Mobile Detail

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	18.20	14.40	71.20	0.09	10.64	0.48	11.12	0.36	0.48	0.83		9,469.00		0.53		9,480.08
Unmitigated	18.20	14.40	71.20	0.09	10.64	0.48	11.12	0.36	0.48	0.83		9,469.00		0.53		9,480.08
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market With Gas Pumps	443.20	420.40	204.30	335,147	335,147
General Office Building	177.28	168.16	81.72	553,241	553,241
Parking Lot	0.00	0.00	0.00		
Strip Mall	978.59	928.24	451.09	2,058,620	2,058,620
Total	1,599.07	1,516.80	737.11	2,947,008	2,947,008

4.3 Trip Type Information

	Miles			Trip %		
Land Use	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
Convenience Market With Gas Pumps	8.90	13.30	7.40	16.60	64.40	19.00
General Office Building	8.90	13.30	7.40	16.60	64.40	19.00
Parking Lot	8.90	13.30	7.40	0.00	0.00	0.00
Strip Mall	8.90	13.30	7.40	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00		27.89		0.00	0.00	28.06
NaturalGas Unmitigated	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00		27.89		0.00	0.00	28.06
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	lb/day										lb/day					
Convenience Market With Gas Pumps	7.92901	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.93		0.00	0.00	0.94
General Office Building	105.096	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00		12.36		0.00	0.00	12.44
Parking Lot	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Strip Mall	124.011	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00		14.59		0.00	0.00	14.68
Total		**0.00**	**0.02**	**0.02**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**27.88**		**0.00**	**0.00**	**28.06**

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	lb/day										lb/day					
Convenience Market With Gas Pumps	0.00792901	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.93		0.00	0.00	0.94
General Office Building	0.105096	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00		12.36		0.00	0.00	12.44
Parking Lot	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Strip Mall	0.124011	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00		14.59		0.00	0.00	14.68
Total		**0.00**	**0.02**	**0.02**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**27.88**		**0.00**	**0.00**	**28.06**

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	2.22	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Unmitigated	2.22	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	0.54					0.00	0.00		0.00	0.00						0.00
Consumer Products	1.68					0.00	0.00		0.00	0.00						0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**2.22**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

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	0.54					0.00	0.00		0.00	0.00						0.00
Consumer Products	1.68					0.00	0.00		0.00	0.00						0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**2.22**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

Beach and Ellis EIR - Existing Land Use

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	4	1000sqft
Parking Lot	144	Space
Convenience Market With Gas Pumps	10	Pump
Strip Mall	22.08	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	8		2.2		
		Precipitation Freq (Days)			
			30		

1.3 User Entered Comments

Project Characteristics - SCE Emission Factors updated to reflect most recent (2007) eGrid numbers.
Land Use - 2.74 equals total lot acreage
Construction Phase - No Construction for Existing Analysis
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Demolition -
Grading - 2.74 equals total site acreage
Woodstoves - No fireplaces
Energy Use -
Solid Waste - Landfill has gas collection
Construction Off-road Equipment Mitigation -
Mobile Land Use Mitigation -
Area Mitigation -
Water Mitigation -
Waste Mitigation -

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					
2011	197.73	43.52	26.55	0.04	6.71	2.72	9.43	0.03	2.72	2.75	0.00	4,111.74	0.00	0.59	0.00	4,124.07
2012	197.68	3.21	2.47	0.00	0.11	0.29	0.40	0.00	0.29	0.30	0.00	368.25	0.00	0.05	0.00	369.34
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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					
2011	197.73	43.52	26.55	0.04	6.71	2.72	9.43	0.03	2.72	2.75	0.00	4,111.74	0.00	0.59	0.00	4,124.07
2012	197.68	3.21	2.47	0.00	0.11	0.29	0.40	0.00	0.29	0.30	0.00	368.25	0.00	0.05	0.00	369.34
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	2.22	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00		27.89		0.00	0.00	28.06
Mobile	15.85	13.09	70.97	0.10	10.64	0.47	11.12	0.36	0.47	0.83		10,036.48		0.57		10,048.52
Total	**18.07**	**13.11**	**70.99**	**0.10**	**10.64**	**0.47**	**11.12**	**0.36**	**0.47**	**0.83**		**10,064.37**		**0.57**	**0.00**	**10,076.58**

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	2.22	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00		27.89		0.00	0.00	28.06
Mobile	15.85	13.09	70.97	0.10	10.64	0.47	11.12	0.36	0.47	0.83		10,036.48		0.57		10,048.52
Total	**18.07**	**13.11**	**70.99**	**0.10**	**10.64**	**0.47**	**11.12**	**0.36**	**0.47**	**0.83**		**10,064.37**		**0.57**	**0.00**	**10,076.58**

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.2 Demolition - 2011

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	5.76	43.43	25.53	0.04		2.72	2.72		2.72	2.72		3,946.48		0.52		3,957.35
Total	**5.76**	**43.43**	**25.53**	**0.04**		**2.72**	**2.72**		**2.72**	**2.72**		**3,946.48**		**0.52**		**3,957.35**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.25	0.09	1.02	0.00	0.20	0.01	0.21	0.01	0.01	0.01		165.26		0.01		165.47
Total	**0.25**	**0.09**	**1.02**	**0.00**	**0.20**	**0.01**	**0.21**	**0.01**	**0.01**	**0.01**		**165.26**		**0.01**		**165.47**

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	5.76	43.43	25.53	0.04		2.72	2.72		2.72	2.72	0.00	3,946.48		0.52		3,957.35
Total	**5.76**	**43.43**	**25.53**	**0.04**		**2.72**	**2.72**		**2.72**	**2.72**	**0.00**	**3,946.48**		**0.52**		**3,957.35**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.25	0.09	1.02	0.00	0.20	0.01	0.21	0.01	0.01	0.01		165.26		0.01		165.47
Total	**0.25**	**0.09**	**1.02**	**0.00**	**0.20**	**0.01**	**0.21**	**0.01**	**0.01**	**0.01**		**165.26**		**0.01**		**165.47**

3.3 Site Preparation - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.59	0.00	1.59	0.00	0.00	0.00						0.00
Off-Road	4.68	39.52	19.60	0.04		1.95	1.95		1.95	1.95		3,917.77		0.42		3,926.57
Total	**4.68**	**39.52**	**19.60**	**0.04**	**1.59**	**1.95**	**3.54**	**0.00**	**1.95**	**1.95**		**3,917.77**		**0.42**		**3,926.57**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.16	0.06	0.63	0.00	0.12	0.00	0.13	0.00	0.00	0.01		101.70		0.01		101.83
Total	**0.16**	**0.06**	**0.63**	**0.00**	**0.12**	**0.00**	**0.13**	**0.00**	**0.00**	**0.01**		**101.70**		**0.01**		**101.83**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.59	0.00	1.59	0.00	0.00	0.00						0.00
Off-Road	4.68	39.52	19.60	0.04		1.95	1.95		1.95	1.95	0.00	3,917.77		0.42		3,926.57
Total	**4.68**	**39.52**	**19.60**	**0.04**	**1.59**	**1.95**	**3.54**	**0.00**	**1.95**	**1.95**	**0.00**	**3,917.77**		**0.42**		**3,926.57**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.16	0.06	0.63	0.00	0.12	0.00	0.13	0.00	0.00	0.01		101.70		0.01		101.83
Total	**0.16**	**0.06**	**0.63**	**0.00**	**0.12**	**0.00**	**0.13**	**0.00**	**0.00**	**0.01**		**101.70**		**0.01**		**101.83**

3.4 Grading - 2011

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					6.55	0.00	6.55	0.00	0.00	0.00						0.00
Off-Road	5.25	41.83	23.91	0.04		2.29	2.29		2.29	2.29		3,827.59		0.47		3,837.50
Total	**5.25**	**41.83**	**23.91**	**0.04**	**6.55**	**2.29**	**8.84**	**0.00**	**2.29**	**2.29**		**3,827.59**		**0.47**		**3,837.50**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.19	0.07	0.79	0.00	0.15	0.00	0.16	0.01	0.00	0.01		127.12		0.01		127.29
Total	**0.19**	**0.07**	**0.79**	**0.00**	**0.15**	**0.00**	**0.16**	**0.01**	**0.00**	**0.01**		**127.12**		**0.01**		**127.29**

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					6.55	0.00	6.55	0.00	0.00	0.00						0.00
Off-Road	5.25	41.83	23.91	0.04		2.29	2.29		2.29	2.29	0.00	3,827.59		0.47		3,837.50
Total	**5.25**	**41.83**	**23.91**	**0.04**	**6.55**	**2.29**	**8.84**	**0.00**	**2.29**	**2.29**	**0.00**	**3,827.59**		**0.47**		**3,837.50**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.19	0.07	0.79	0.00	0.15	0.00	0.16	0.01	0.00	0.01		127.12		0.01		127.29
Total	**0.19**	**0.07**	**0.79**	**0.00**	**0.15**	**0.00**	**0.16**	**0.01**	**0.00**	**0.01**		**127.12**		**0.01**		**127.29**

3.5 Building Construction - 2011

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	6.12	32.66	20.36	0.04		2.25	2.25		2.25	2.25		3,233.11		0.55		3,244.65
Total	**6.12**	**32.66**	**20.36**	**0.04**		**2.25**	**2.25**		**2.25**	**2.25**		**3,233.11**		**0.55**		**3,244.65**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.30	2.60	1.72	0.00	0.13	0.09	0.22	0.01	0.09	0.10		374.34		0.01		374.59
Worker	0.64	0.23	2.60	0.00	0.51	0.02	0.52	0.02	0.02	0.03		419.51		0.03		420.05
Total	**0.94**	**2.83**	**4.32**	**0.00**	**0.64**	**0.11**	**0.74**	**0.03**	**0.11**	**0.13**		**793.85**		**0.04**		**794.64**

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	6.12	32.66	20.36	0.04		2.25	2.25		2.25	2.25	0.00	3,233.11		0.55		3,244.65
Total	**6.12**	**32.66**	**20.36**	**0.04**		**2.25**	**2.25**		**2.25**	**2.25**	**0.00**	**3,233.11**		**0.55**		**3,244.65**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.30	2.60	1.72	0.00	0.13	0.09	0.22	0.01	0.09	0.10		374.34		0.01		374.59
Worker	0.64	0.23	2.60	0.00	0.51	0.02	0.52	0.02	0.02	0.03		419.51		0.03		420.05
Total	**0.94**	**2.83**	**4.32**	**0.00**	**0.64**	**0.11**	**0.74**	**0.03**	**0.11**	**0.13**		**793.85**		**0.04**		**794.64**

3.6 Paving - 2011

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	4.73	28.96	17.13	0.03		2.54	2.54		2.54	2.54		2,393.42		0.42		2,402.32
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**4.73**	**28.96**	**17.13**	**0.03**		**2.54**	**2.54**		**2.54**	**2.54**		**2,393.42**		**0.42**		**2,402.32**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.29	0.11	1.18	0.00	0.23	0.01	0.24	0.01	0.01	0.02		190.69		0.01		190.93
Total	**0.29**	**0.11**	**1.18**	**0.00**	**0.23**	**0.01**	**0.24**	**0.01**	**0.01**	**0.02**		**190.69**		**0.01**		**190.93**

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	4.73	28.96	17.13	0.03		2.54	2.54		2.54	2.54	0.00	2,393.42		0.42		2,402.32
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**4.73**	**28.96**	**17.13**	**0.03**		**2.54**	**2.54**		**2.54**	**2.54**	**0.00**	**2,393.42**		**0.42**		**2,402.32**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.29	0.11	1.18	0.00	0.23	0.01	0.24	0.01	0.01	0.02		190.69		0.01		190.93
Total	**0.29**	**0.11**	**1.18**	**0.00**	**0.23**	**0.01**	**0.24**	**0.01**	**0.01**	**0.02**		**190.69**		**0.01**		**190.93**

3.7 Architectural Coating - 2011

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	197.03					0.00	0.00		0.00	0.00						0.00
Off-Road	0.56	3.37	1.98	0.00		0.31	0.31		0.31	0.31		281.19		0.05		282.25
Total	**197.59**	**3.37**	**1.98**	**0.00**		**0.31**	**0.31**		**0.31**	**0.31**		**281.19**		**0.05**		**282.25**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.14	0.05	0.55	0.00	0.11	0.00	0.11	0.00	0.00	0.01		88.99		0.01		89.10
Total	**0.14**	**0.05**	**0.55**	**0.00**	**0.11**	**0.00**	**0.11**	**0.00**	**0.00**	**0.01**		**88.99**		**0.01**		**89.10**

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	197.03					0.00	0.00		0.00	0.00						0.00
Off-Road	0.56	3.37	1.98	0.00		0.31	0.31		0.31	0.31	0.00	281.19		0.05		282.25
Total	**197.59**	**3.37**	**1.98**	**0.00**		**0.31**	**0.31**		**0.31**	**0.31**	**0.00**	**281.19**		**0.05**		**282.25**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.14	0.05	0.55	0.00	0.11	0.00	0.11	0.00	0.00	0.01		88.99		0.01		89.10
Total	**0.14**	**0.05**	**0.55**	**0.00**	**0.11**	**0.00**	**0.11**	**0.00**	**0.00**	**0.01**		**88.99**		**0.01**		**89.10**

3.7 Architectural Coating - 2012

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	197.03					0.00	0.00		0.00	0.00						0.00
Off-Road	0.52	3.16	1.96	0.00		0.29	0.29		0.29	0.29		281.19		0.05		282.18
Total	**197.55**	**3.16**	**1.96**	**0.00**		**0.29**	**0.29**		**0.29**	**0.29**		**281.19**		**0.05**		**282.18**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.13	0.05	0.51	0.00	0.11	0.00	0.11	0.00	0.00	0.01		87.06		0.01		87.17
Total	**0.13**	**0.05**	**0.51**	**0.00**	**0.11**	**0.00**	**0.11**	**0.00**	**0.00**	**0.01**		**87.06**		**0.01**		**87.17**

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	197.03					0.00	0.00		0.00	0.00						0.00
Off-Road	0.52	3.16	1.96	0.00		0.29	0.29		0.29	0.29	0.00	281.19		0.05		282.18
Total	**197.55**	**3.16**	**1.96**	**0.00**		**0.29**	**0.29**		**0.29**	**0.29**	**0.00**	**281.19**		**0.05**		**282.18**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.13	0.05	0.51	0.00	0.11	0.00	0.11	0.00	0.00	0.01		87.06		0.01		87.17
Total	**0.13**	**0.05**	**0.51**	**0.00**	**0.11**	**0.00**	**0.11**	**0.00**	**0.00**	**0.01**		**87.06**		**0.01**		**87.17**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	15.85	13.09	70.97	0.10	10.64	0.47	11.12	0.36	0.47	0.83		10,036.48		0.57		10,048.52
Unmitigated	15.85	13.09	70.97	0.10	10.64	0.47	11.12	0.36	0.47	0.83		10,036.48		0.57		10,048.52
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market With Gas Pumps	443.20	420.40	204.30	335,147	335,147
General Office Building	177.28	168.16	81.72	553,241	553,241
Parking Lot	0.00	0.00	0.00		
Strip Mall	978.59	928.24	451.09	2,058,620	2,058,620
Total	1,599.07	1,516.80	737.11	2,947,008	2,947,008

4.3 Trip Type Information

	Miles			Trip %		
Land Use	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
Convenience Market With Gas Pumps	8.90	13.30	7.40	16.60	64.40	19.00
General Office Building	8.90	13.30	7.40	16.60	64.40	19.00
Parking Lot	8.90	13.30	7.40	0.00	0.00	0.00
Strip Mall	8.90	13.30	7.40	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00		27.89		0.00	0.00	28.06
NaturalGas Unmitigated	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00		27.89		0.00	0.00	28.06
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	lb/day										lb/day					
Convenience Market With Gas Pumps	7.92901	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.93		0.00	0.00	0.94
General Office Building	105.096	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00		12.36		0.00	0.00	12.44
Parking Lot	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Strip Mall	124.011	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00		14.59		0.00	0.00	14.68
Total		**0.00**	**0.02**	**0.02**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**27.88**		**0.00**	**0.00**	**28.06**

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	lb/day										lb/day					
Convenience Market With Gas Pumps	0.00792901	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.93		0.00	0.00	0.94
General Office Building	0.105096	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00		12.36		0.00	0.00	12.44
Parking Lot	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Strip Mall	0.124011	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00		14.59		0.00	0.00	14.68
Total		**0.00**	**0.02**	**0.02**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**27.88**		**0.00**	**0.00**	**28.06**

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	2.22	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Unmitigated	2.22	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	0.54					0.00	0.00		0.00	0.00						0.00
Consumer Products	1.68					0.00	0.00		0.00	0.00						0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**2.22**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

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	0.54					0.00	0.00		0.00	0.00						0.00
Consumer Products	1.68					0.00	0.00		0.00	0.00						0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**2.22**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

Beach and Ellis EIR - Existing Land Use

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	4	1000sqft
Parking Lot	144	Space
Convenience Market With Gas Pumps	10	Pump
Strip Mall	22.08	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	8		2.2		
		Precipitation Freq (Days)			
			30		

1.3 User Entered Comments

Project Characteristics - SCE Emission Factors updated to reflect most recent (2007) eGrid numbers.
Land Use - 2.74 equals total lot acreage
Construction Phase - No Construction for Existing Analysis
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Demolition -
Grading - 2.74 equals total site acreage
Woodstoves - No fireplaces
Energy Use -
Solid Waste - Landfill has gas collection
Construction Off-road Equipment Mitigation -
Mobile Land Use Mitigation -
Area Mitigation -
Water Mitigation -
Waste Mitigation -

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					
2011	0.99	4.67	3.18	0.01	0.09	0.31	0.40	0.01	0.31	0.32	0.00	465.11	465.11	0.07	0.00	466.52
2012	0.89	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.00	0.00	1.49
Total	**1.88**	**4.68**	**3.19**	**0.01**	**0.09**	**0.31**	**0.40**	**0.01**	**0.31**	**0.32**	**0.00**	**466.60**	**466.60**	**0.07**	**0.00**	**468.01**

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					
2011	0.99	4.67	3.18	0.01	0.09	0.31	0.40	0.01	0.31	0.32	0.00	465.11	465.11	0.07	0.00	466.52
2012	0.89	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.00	0.00	1.49
Total	**1.88**	**4.68**	**3.19**	**0.01**	**0.09**	**0.31**	**0.40**	**0.01**	**0.31**	**0.32**	**0.00**	**466.60**	**466.60**	**0.07**	**0.00**	**468.01**

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	0.41	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	73.92	73.92	0.00	0.00	74.32
Mobile	2.73	2.21	12.02	0.02	1.60	0.08	1.68	0.06	0.08	0.14	0.00	1,458.84	1,458.84	0.08	0.00	1,460.52
Waste						0.00	0.00		0.00	0.00	5.46	0.00	5.46	0.32	0.00	12.24
Water						0.00	0.00		0.00	0.00	0.00	9.30	9.30	0.07	0.00	11.50
Total	**3.14**	**2.21**	**12.02**	**0.02**	**1.60**	**0.08**	**1.68**	**0.06**	**0.08**	**0.14**	**5.46**	**1,542.06**	**1,547.52**	**0.47**	**0.00**	**1,558.58**

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	0.41	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	73.92	73.92	0.00	0.00	74.32
Mobile	2.73	2.21	12.02	0.02	1.60	0.08	1.68	0.06	0.08	0.14	0.00	1,458.84	1,458.84	0.08	0.00	1,460.52
Waste						0.00	0.00		0.00	0.00	5.46	0.00	5.46	0.32	0.00	12.24
Water						0.00	0.00		0.00	0.00	0.00	9.30	9.30	0.07	0.00	11.50
Total	**3.14**	**2.21**	**12.02**	**0.02**	**1.60**	**0.08**	**1.68**	**0.06**	**0.08**	**0.14**	**5.46**	**1,542.06**	**1,547.52**	**0.47**	**0.00**	**1,558.58**

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.2 Demolition - 2011

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	0.06	0.43	0.26	0.00		0.03	0.03		0.03	0.03	0.00	35.79	35.79	0.00	0.00	35.89
Total	**0.06**	**0.43**	**0.26**	**0.00**		**0.03**	**0.03**		**0.03**	**0.03**	**0.00**	**35.79**	**35.79**	**0.00**	**0.00**	**35.89**

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.43	1.43	0.00	0.00	1.43
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.43**	**1.43**	**0.00**	**0.00**	**1.43**

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	0.06	0.43	0.26	0.00		0.03	0.03		0.03	0.03	0.00	35.79	35.79	0.00	0.00	35.89
Total	**0.06**	**0.43**	**0.26**	**0.00**		**0.03**	**0.03**		**0.03**	**0.03**	**0.00**	**35.79**	**35.79**	**0.00**	**0.00**	**35.89**

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.43	1.43	0.00	0.00	1.43
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.43**	**1.43**	**0.00**	**0.00**	**1.43**

3.3 Site Preparation - 2011

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					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.06	0.03	0.00		0.00	0.00		0.00	0.00	0.00	5.33	5.33	0.00	0.00	5.34
Total	**0.01**	**0.06**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**5.33**	**5.33**	**0.00**	**0.00**	**5.34**

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.00	0.00	0.13
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.13**	**0.13**	**0.00**	**0.00**	**0.13**

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					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.06	0.03	0.00		0.00	0.00		0.00	0.00	0.00	5.33	5.33	0.00	0.00	5.34
Total	**0.01**	**0.06**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**5.33**	**5.33**	**0.00**	**0.00**	**5.34**

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.00	0.00	0.13
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.13**	**0.13**	**0.00**	**0.00**	**0.13**

3.4 Grading - 2011

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					0.02	0.00	0.02	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.02	0.13	0.07	0.00		0.01	0.01		0.01	0.01	0.00	10.41	10.41	0.00	0.00	10.44
Total	**0.02**	**0.13**	**0.07**	**0.00**	**0.02**	**0.01**	**0.03**	**0.01**	**0.01**	**0.02**	**0.00**	**10.41**	**10.41**	**0.00**	**0.00**	**10.44**

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.00	0.00	0.33
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.33**	**0.33**	**0.00**	**0.00**	**0.33**

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					0.02	0.00	0.02	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.02	0.13	0.07	0.00		0.01	0.01		0.01	0.01	0.00	10.41	10.41	0.00	0.00	10.44
Total	**0.02**	**0.13**	**0.07**	**0.00**	**0.02**	**0.01**	**0.03**	**0.01**	**0.01**	**0.02**	**0.00**	**10.41**	**10.41**	**0.00**	**0.00**	**10.44**

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.00	0.00	0.33
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.33**	**0.33**	**0.00**	**0.00**	**0.33**

3.5 Building Construction - 2011

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	0.67	3.59	2.24	0.00		0.25	0.25		0.25	0.25	0.00	322.55	322.55	0.05	0.00	323.70
Total	**0.67**	**3.59**	**2.24**	**0.00**		**0.25**	**0.25**		**0.25**	**0.25**	**0.00**	**322.55**	**322.55**	**0.05**	**0.00**	**323.70**

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	0.00	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
Vendor	0.03	0.28	0.20	0.00	0.01	0.01	0.02	0.00	0.01	0.01	0.00	37.27	37.27	0.00	0.00	37.30
Worker	0.07	0.03	0.28	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	40.02	40.02	0.00	0.00	40.07
Total	**0.10**	**0.31**	**0.48**	**0.00**	**0.06**	**0.01**	**0.07**	**0.00**	**0.01**	**0.01**	**0.00**	**77.29**	**77.29**	**0.00**	**0.00**	**77.37**

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	0.67	3.59	2.24	0.00		0.25	0.25		0.25	0.25	0.00	322.55	322.55	0.05	0.00	323.70
Total	**0.67**	**3.59**	**2.24**	**0.00**		**0.25**	**0.25**		**0.25**	**0.25**	**0.00**	**322.55**	**322.55**	**0.05**	**0.00**	**323.70**

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	0.00	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
Vendor	0.03	0.28	0.20	0.00	0.01	0.01	0.02	0.00	0.01	0.01	0.00	37.27	37.27	0.00	0.00	37.30
Worker	0.07	0.03	0.28	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	40.02	40.02	0.00	0.00	40.07
Total	**0.10**	**0.31**	**0.48**	**0.00**	**0.06**	**0.01**	**0.07**	**0.00**	**0.01**	**0.01**	**0.00**	**77.29**	**77.29**	**0.00**	**0.00**	**77.37**

3.6 Paving - 2011

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	0.02	0.14	0.09	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.89
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.02**	**0.14**	**0.09**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**10.85**	**10.85**	**0.00**	**0.00**	**10.89**

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.00	0.00	0.83
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.83**	**0.83**	**0.00**	**0.00**	**0.83**

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	0.02	0.14	0.09	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.89
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.02**	**0.14**	**0.09**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**10.85**	**10.85**	**0.00**	**0.00**	**10.89**

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.00	0.00	0.83
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.83**	**0.83**	**0.00**	**0.00**	**0.83**

3.7 Architectural Coating - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.10					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.13	0.13	0.00	0.00	0.13
Total	**0.10**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.13**	**0.13**	**0.00**	**0.00**	**0.13**

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.04
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.04**	**0.04**	**0.00**	**0.00**	**0.04**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.10					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.13	0.13	0.00	0.00	0.13
Total	**0.10**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.13**	**0.13**	**0.00**	**0.00**	**0.13**

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.04
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.04**	**0.04**	**0.00**	**0.00**	**0.04**

3.7 Architectural Coating - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.89					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.15	1.15	0.00	0.00	1.15
Total	**0.89**	**0.01**	**0.01**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**1.15**	**1.15**	**0.00**	**0.00**	**1.15**

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.00	0.00	0.34
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.34**	**0.34**	**0.00**	**0.00**	**0.34**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.89					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.15	1.15	0.00	0.00	1.15
Total	**0.89**	**0.01**	**0.01**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**1.15**	**1.15**	**0.00**	**0.00**	**1.15**

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.00	0.00	0.34
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.34**	**0.34**	**0.00**	**0.00**	**0.34**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.73	2.21	12.02	0.02	1.60	0.08	1.68	0.06	0.08	0.14	0.00	1,458.84	1,458.84	0.08	0.00	1,460.52
Unmitigated	2.73	2.21	12.02	0.02	1.60	0.08	1.68	0.06	0.08	0.14	0.00	1,458.84	1,458.84	0.08	0.00	1,460.52
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market With Gas Pumps	443.20	420.40	204.30	335,147	335,147
General Office Building	177.28	168.16	81.72	553,241	553,241
Parking Lot	0.00	0.00	0.00		
Strip Mall	978.59	928.24	451.09	2,058,620	2,058,620
Total	1,599.07	1,516.80	737.11	2,947,008	2,947,008

4.3 Trip Type Information

	Miles			Trip %		
Land Use	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
Convenience Market With Gas Pumps	8.90	13.30	7.40	16.60	64.40	19.00
General Office Building	8.90	13.30	7.40	16.60	64.40	19.00
Parking Lot	8.90	13.30	7.40	0.00	0.00	0.00
Strip Mall	8.90	13.30	7.40	16.60	64.40	19.00

5.0 Energy Detail

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						0.00	0.00		0.00	0.00	0.00	69.30	69.30	0.00	0.00	69.68
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	69.30	69.30	0.00	0.00	69.68
NaturalGas Mitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	4.62	4.62	0.00	0.00	4.65
NaturalGas Unmitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	4.62	4.62	0.00	0.00	4.65
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	tons/yr										MT/yr					
Convenience Market With Gas Pumps	2894.09	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.15	0.15	0.00	0.00	0.16
General Office Building	38360	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.05	2.05	0.00	0.00	2.06
Parking Lot	0	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
Strip Mall	45264	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.42	2.42	0.00	0.00	2.43
Total		**0.00**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**4.62**	**4.62**	**0.00**	**0.00**	**4.65**

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	tons/yr										MT/yr					
Convenience Market With Gas Pumps	2894.09	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.15	0.15	0.00	0.00	0.16
General Office Building	38360	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.05	2.05	0.00	0.00	2.06
Parking Lot	0	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
Strip Mall	45264	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.42	2.42	0.00	0.00	2.43
Total		**0.00**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**4.62**	**4.62**	**0.00**	**0.00**	**4.65**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Convenience Market With Gas Pumps	18070.4					3.45	0.00	0.00	3.47
General Office Building	62480					11.92	0.00	0.00	11.99
Parking Lot	0					0.00	0.00	0.00	0.00
Strip Mall	282624					53.93	0.00	0.00	54.23
Total						**69.30**	**0.00**	**0.00**	**69.69**

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Convenience Market With Gas Pumps	18070.4					3.45	0.00	0.00	3.47
General Office Building	62480					11.92	0.00	0.00	11.99
Parking Lot	0					0.00	0.00	0.00	0.00
Strip Mall	282624					53.93	0.00	0.00	54.23
Total						**69.30**	**0.00**	**0.00**	**69.69**

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	0.41	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
Unmitigated	0.41	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
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	0.10					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.31					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	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
Total	**0.41**	**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**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.10					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.31					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	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
Total	**0.41**	**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**

7.0 Water Detail

7.1 Mitigation Measures Water

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					9.30	0.07	0.00	11.50
Unmitigated					9.30	0.07	0.00	11.50
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Convenience Market With Gas Pumps	0.104572 / 0.0640924					0.40	0.00	0.00	0.49
General Office Building	0.710935 / 0.435734					2.70	0.02	0.00	3.34
Parking Lot	0 / 0					0.00	0.00	0.00	0.00
Strip Mall	1.63552 /					6.21	0.05	0.00	7.67
Total						**9.31**	**0.07**	**0.00**	**11.50**

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Convenience Market With Gas Pumps	0.104572 / 0.0640924					0.40	0.00	0.00	0.49
General Office Building	0.710935 / 0.435734					2.70	0.02	0.00	3.34
Parking Lot	0 / 0					0.00	0.00	0.00	0.00
Strip Mall	1.63552 /					6.21	0.05	0.00	7.67
Total						**9.31**	**0.07**	**0.00**	**11.50**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					5.46	0.32	0.00	12.24
Unmitigated					5.46	0.32	0.00	12.24
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
General Office Building	3.72					0.76	0.04	0.00	1.69
Parking Lot	0					0.00	0.00	0.00	0.00
Strip Mall	23.18					4.71	0.28	0.00	10.54
Total						**5.47**	**0.32**	**0.00**	**12.23**

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
General Office Building	3.72					0.76	0.04	0.00	1.69
Parking Lot	0					0.00	0.00	0.00	0.00
Strip Mall	23.18					4.71	0.28	0.00	10.54
Total						**5.47**	**0.32**	**0.00**	**12.23**

9.0 Vegetation

Beach and Ellis EIR
Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Parking Structure	483	Space
Apartments Mid Rise	105	Dwelling Unit
Strip Mall	37	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Utility Company**	Southern California Edison
Climate Zone	8	**Precipitation Freq (Days)**	30		

1.3 User Entered Comments

Project Characteristics - SCE Emission Factors updated to reflect most recent (2007) eGrid numbers.
Land Use - 2.74 equals total lot acreage
Construction Phase - Construction Schedule provided by project applicant
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Demolition -
Grading - 2.74 equals total site acreage
Woodstoves - No fireplaces
Solid Waste - Landfill has gas collection
Construction Off-road Equipment Mitigation -
Mobile Land Use Mitigation -
Area Mitigation - 10% reduction in VOCs
Water Mitigation -
Waste Mitigation -
Architectural Coating - rates indicate a 10% decrease in VOC content for residential and 125 for non-residential

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	10.39	43.05	43.80	0.08	4.96	2.84	7.80	0.14	2.84	2.98	0.00	7,926.93	0.00	0.69	0.00	7,941.35
2017	142.74	24.44	29.13	0.06	3.05	1.37	4.42	0.13	1.37	1.50	0.00	5,856.90	0.00	0.40	0.00	5,865.33
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	10.39	43.05	43.80	0.08	2.04	2.84	4.87	0.14	2.84	2.98	0.00	7,926.93	0.00	0.69	0.00	7,941.35
2017	142.74	24.44	29.13	0.06	1.82	1.37	3.20	0.13	1.37	1.50	0.00	5,856.90	0.00	0.40	0.00	5,865.33
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	19.77	0.61	43.56	0.08		0.00	5.60		0.00	5.60	740.96	1,905.79		2.95	0.05	2,722.72
Energy	0.04	0.34	0.15	0.00		0.00	0.03		0.00	0.03		429.67		0.01	0.01	432.28
Mobile	24.58	15.02	74.18	0.17	20.74	0.88	21.62	0.29	0.77	1.06		14,837.96		0.64		14,851.43
Total	**44.39**	**15.97**	**117.89**	**0.25**	**20.74**	**0.88**	**27.25**	**0.29**	**0.77**	**6.69**	**740.96**	**17,173.42**		**3.60**	**0.06**	**18,006.43**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.84	0.10	8.81	0.00		0.00	0.05		0.00	0.05	0.00	15.79		0.02	0.00	16.11
Energy	0.04	0.34	0.15	0.00		0.00	0.03		0.00	0.03		429.67		0.01	0.01	432.28
Mobile	16.41	10.51	52.91	0.11	12.89	0.56	13.46	0.18	0.50	0.68		9,380.02		0.43		9,388.95
Total	**24.29**	**10.95**	**61.87**	**0.11**	**12.89**	**0.56**	**13.54**	**0.18**	**0.50**	**0.76**	**0.00**	**9,825.48**		**0.46**	**0.01**	**9,837.34**

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Soil Stabilizer
Replace Ground Cover
Water Exposed Area
Water Unpaved Roads
Reduce Vehicle Speed on Unpaved Roads
Clean Paved Roads

3.2 Demolition - 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					0.64	0.00	0.64	0.00	0.00	0.00						0.00
Off-Road	1.55	11.08	9.08	0.02		0.74	0.74		0.74	0.74		1,476.12		0.14		1,479.02
Total	**1.55**	**11.08**	**9.08**	**0.02**	**0.64**	**0.74**	**1.38**	**0.00**	**0.74**	**0.74**		**1,476.12**		**0.14**		**1,479.02**

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	0.15	1.10	0.72	0.00	2.94	0.04	2.98	0.01	0.04	0.05		240.00		0.01		240.11
Vendor	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
Worker	0.18	0.05	0.49	0.00	0.15	0.00	0.16	0.01	0.00	0.01		106.05		0.01		106.16
Total	**0.33**	**1.15**	**1.21**	**0.00**	**3.09**	**0.04**	**3.14**	**0.02**	**0.04**	**0.06**		**346.05**		**0.02**		**346.27**

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					0.24	0.00	0.24	0.00	0.00	0.00						0.00
Off-Road	1.55	11.08	9.08	0.02		0.74	0.74		0.74	0.74	0.00	1,476.12		0.14		1,479.02
Total	**1.55**	**11.08**	**9.08**	**0.02**	**0.24**	**0.74**	**0.98**	**0.00**	**0.74**	**0.74**	**0.00**	**1,476.12**		**0.14**		**1,479.02**

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	0.15	1.10	0.72	0.00	1.71	0.04	1.75	0.01	0.04	0.05		240.00		0.01		240.11
Vendor	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
Worker	0.18	0.05	0.49	0.00	0.09	0.00	0.10	0.01	0.00	0.01		106.05		0.01		106.16
Total	**0.33**	**1.15**	**1.21**	**0.00**	**1.80**	**0.04**	**1.85**	**0.02**	**0.04**	**0.06**		**346.05**		**0.02**		**346.27**

3.3 Mass Site 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					4.59	0.00	4.59	0.00	0.00	0.00						0.00
Off-Road	3.53	26.65	16.15	0.04		1.20	1.20		1.20	1.20		3,768.76		0.32		3,775.42
Total	**3.53**	**26.65**	**16.15**	**0.04**	**4.59**	**1.20**	**5.79**	**0.00**	**1.20**	**1.20**		**3,768.76**		**0.32**		**3,775.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.18	0.05	0.49	0.00	0.15	0.00	0.16	0.01	0.00	0.01		106.05		0.01		106.16
Total	**0.18**	**0.05**	**0.49**	**0.00**	**0.15**	**0.00**	**0.16**	**0.01**	**0.00**	**0.01**		**106.05**		**0.01**		**106.16**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.70	0.00	1.70	0.00	0.00	0.00						0.00
Off-Road	3.53	26.65	16.15	0.04		1.20	1.20		1.20	1.20	0.00	3,768.76		0.32		3,775.42
Total	**3.53**	**26.65**	**16.15**	**0.04**	**1.70**	**1.20**	**2.90**	**0.00**	**1.20**	**1.20**	**0.00**	**3,768.76**		**0.32**		**3,775.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.18	0.05	0.49	0.00	0.09	0.00	0.10	0.01	0.00	0.01		106.05		0.01		106.16
Total	**0.18**	**0.05**	**0.49**	**0.00**	**0.09**	**0.00**	**0.10**	**0.01**	**0.00**	**0.01**		**106.05**		**0.01**		**106.16**

3.4 Fine Site 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					4.81	0.00	4.81	0.00	0.00	0.00						0.00
Off-Road	3.53	26.65	16.15	0.04		1.20	1.20		1.20	1.20		3,768.76		0.32		3,775.42
Total	**3.53**	**26.65**	**16.15**	**0.04**	**4.81**	**1.20**	**6.01**	**0.00**	**1.20**	**1.20**		**3,768.76**		**0.32**		**3,775.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.18	0.05	0.49	0.00	0.15	0.00	0.16	0.01	0.00	0.01		106.05		0.01		106.16
Total	**0.18**	**0.05**	**0.49**	**0.00**	**0.15**	**0.00**	**0.16**	**0.01**	**0.00**	**0.01**		**106.05**		**0.01**		**106.16**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.78	0.00	1.78	0.00	0.00	0.00						0.00
Off-Road	3.53	26.65	16.15	0.04		1.20	1.20		1.20	1.20	0.00	3,768.76		0.32		3,775.42
Total	**3.53**	**26.65**	**16.15**	**0.04**	**1.78**	**1.20**	**2.98**	**0.00**	**1.20**	**1.20**	**0.00**	**3,768.76**		**0.32**		**3,775.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.18	0.05	0.49	0.00	0.09	0.00	0.10	0.01	0.00	0.01		106.05		0.01		106.16
Total	**0.18**	**0.05**	**0.49**	**0.00**	**0.09**	**0.00**	**0.10**	**0.01**	**0.00**	**0.01**		**106.05**		**0.01**		**106.16**

3.5 Trenching - 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	2.75	18.86	17.90	0.03		1.08	1.08		1.08	1.08		2,971.42		0.25		2,976.58
Total	**2.75**	**18.86**	**17.90**	**0.03**		**1.08**	**1.08**		**1.08**	**1.08**		**2,971.42**		**0.25**		**2,976.58**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.18	0.05	0.49	0.00	0.15	0.00	0.16	0.01	0.00	0.01		106.05		0.01		106.16
Total	**0.18**	**0.05**	**0.49**	**0.00**	**0.15**	**0.00**	**0.16**	**0.01**	**0.00**	**0.01**		**106.05**		**0.01**		**106.16**

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	2.75	18.86	17.90	0.03		1.08	1.08		1.08	1.08	0.00	2,971.42		0.25		2,976.58
Total	**2.75**	**18.86**	**17.90**	**0.03**		**1.08**	**1.08**		**1.08**	**1.08**	**0.00**	**2,971.42**		**0.25**		**2,976.58**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.18	0.05	0.49	0.00	0.09	0.00	0.10	0.01	0.00	0.01		106.05		0.01		106.16
Total	**0.18**	**0.05**	**0.49**	**0.00**	**0.09**	**0.00**	**0.10**	**0.01**	**0.00**	**0.01**		**106.05**		**0.01**		**106.16**

3.6 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	3.63	19.67	17.49	0.03		1.27	1.27		1.27	1.27		2,776.65		0.32		2,783.47
Total	**3.63**	**19.67**	**17.49**	**0.03**		**1.27**	**1.27**		**1.27**	**1.27**		**2,776.65**		**0.32**		**2,783.47**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.73	5.96	4.41	0.01	0.46	0.18	0.64	0.04	0.18	0.22		1,323.35		0.03		1,323.94
Worker	3.06	0.87	8.36	0.02	2.59	0.08	2.68	0.10	0.08	0.18		1,792.31		0.09		1,794.16
Total	**3.79**	**6.83**	**12.77**	**0.03**	**3.05**	**0.26**	**3.32**	**0.14**	**0.26**	**0.40**		**3,115.66**		**0.12**		**3,118.10**

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	3.63	19.67	17.49	0.03		1.27	1.27		1.27	1.27	0.00	2,776.65		0.32		2,783.47
Total	**3.63**	**19.67**	**17.49**	**0.03**		**1.27**	**1.27**		**1.27**	**1.27**	**0.00**	**2,776.65**		**0.32**		**2,783.47**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.73	5.96	4.41	0.01	0.28	0.18	0.46	0.04	0.18	0.22		1,323.35		0.03		1,323.94
Worker	3.06	0.87	8.36	0.02	1.55	0.08	1.63	0.10	0.08	0.18		1,792.31		0.09		1,794.16
Total	**3.79**	**6.83**	**12.77**	**0.03**	**1.83**	**0.26**	**2.09**	**0.14**	**0.26**	**0.40**		**3,115.66**		**0.12**		**3,118.10**

3.6 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	3.29	18.16	17.25	0.03		1.12	1.12		1.12	1.12		2,776.65		0.29		2,782.81
Total	**3.29**	**18.16**	**17.25**	**0.03**		**1.12**	**1.12**		**1.12**	**1.12**		**2,776.65**		**0.29**		**2,782.81**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.69	5.49	4.14	0.01	0.46	0.17	0.62	0.04	0.17	0.20		1,326.79		0.03		1,327.34
Worker	2.94	0.79	7.74	0.02	2.59	0.08	2.68	0.10	0.08	0.18		1,753.45		0.08		1,755.18
Total	**3.63**	**6.28**	**11.88**	**0.03**	**3.05**	**0.25**	**3.30**	**0.14**	**0.25**	**0.38**		**3,080.24**		**0.11**		**3,082.52**

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	3.29	18.16	17.25	0.03		1.12	1.12		1.12	1.12	0.00	2,776.65		0.29		2,782.81
Total	**3.29**	**18.16**	**17.25**	**0.03**		**1.12**	**1.12**		**1.12**	**1.12**	**0.00**	**2,776.65**		**0.29**		**2,782.81**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.69	5.49	4.14	0.01	0.28	0.17	0.45	0.04	0.17	0.20		1,326.79		0.03		1,327.34
Worker	2.94	0.79	7.74	0.02	1.55	0.08	1.63	0.10	0.08	0.18		1,753.45		0.08		1,755.18
Total	**3.63**	**6.28**	**11.88**	**0.03**	**1.83**	**0.25**	**2.08**	**0.14**	**0.25**	**0.38**		**3,080.24**		**0.11**		**3,082.52**

3.7 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	2.64	16.46	12.64	0.02		1.30	1.30		1.30	1.30		1,843.72		0.24		1,848.68
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**2.64**	**16.46**	**12.64**	**0.02**		**1.30**	**1.30**		**1.30**	**1.30**		**1,843.72**		**0.24**		**1,848.68**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.33	0.09	0.89	0.00	0.28	0.01	0.29	0.01	0.01	0.02		190.90		0.01		191.09
Total	**0.33**	**0.09**	**0.89**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**190.90**		**0.01**		**191.09**

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	2.64	16.46	12.64	0.02		1.30	1.30		1.30	1.30	0.00	1,843.72		0.24		1,848.68
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**2.64**	**16.46**	**12.64**	**0.02**		**1.30**	**1.30**		**1.30**	**1.30**	**0.00**	**1,843.72**		**0.24**		**1,848.68**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.33	0.09	0.89	0.00	0.16	0.01	0.17	0.01	0.01	0.02		190.90		0.01		191.09
Total	**0.33**	**0.09**	**0.89**	**0.00**	**0.16**	**0.01**	**0.17**	**0.01**	**0.01**	**0.02**		**190.90**		**0.01**		**191.09**

3.8 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	141.82					0.00	0.00		0.00	0.00						0.00
Off-Road	0.33	2.18	1.87	0.00		0.17	0.17		0.17	0.17		281.19		0.03		281.81
Total	**142.15**	**2.18**	**1.87**	**0.00**		**0.17**	**0.17**		**0.17**	**0.17**		**281.19**		**0.03**		**281.81**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.59	0.16	1.56	0.00	0.52	0.02	0.54	0.02	0.02	0.04		352.77		0.02		353.11
Total	**0.59**	**0.16**	**1.56**	**0.00**	**0.52**	**0.02**	**0.54**	**0.02**	**0.02**	**0.04**		**352.77**		**0.02**		**353.11**

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	141.82					0.00	0.00		0.00	0.00						0.00
Off-Road	0.33	2.18	1.87	0.00		0.17	0.17		0.17	0.17	0.00	281.19		0.03		281.81
Total	**142.15**	**2.18**	**1.87**	**0.00**		**0.17**	**0.17**		**0.17**	**0.17**	**0.00**	**281.19**		**0.03**		**281.81**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.59	0.16	1.56	0.00	0.31	0.02	0.33	0.02	0.02	0.04		352.77		0.02		353.11
Total	**0.59**	**0.16**	**1.56**	**0.00**	**0.31**	**0.02**	**0.33**	**0.02**	**0.02**	**0.04**		**352.77**		**0.02**		**353.11**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

Increase Density
Increase Diversity
Increase Transit Accessibility
Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	16.41	10.51	52.91	0.11	12.89	0.56	13.46	0.18	0.50	0.68		9,380.02		0.43		9,388.95
Unmitigated	24.58	15.02	74.18	0.17	20.74	0.88	21.62	0.29	0.77	1.06		14,837.96		0.64		14,851.43
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	691.95	751.80	637.35	2,307,089	1,433,972
Parking Structure	0.00	0.00	0.00		
Strip Mall	1,639.84	1,555.48	755.91	3,449,680	2,144,151
Total	2,331.79	2,307.28	1,393.26	5,756,769	3,578,123

4.3 Trip Type Information

	Miles			Trip %		
Land Use	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
Apartments Mid Rise	12.70	7.00	9.50	40.20	19.20	40.60
Parking Structure	8.90	13.30	7.40	0.00	0.00	0.00
Strip Mall	8.90	13.30	7.40	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.04	0.34	0.15	0.00		0.00	0.03		0.00	0.03		429.67		0.01	0.01	432.28
NaturalGas Unmitigated	0.04	0.34	0.15	0.00		0.00	0.03		0.00	0.03		429.67		0.01	0.01	432.28
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	lb/day										lb/day					
Apartments Mid Rise	3444.37	0.04	0.32	0.14	0.00		0.00	0.03		0.00	0.03		405.22		0.01	0.01	407.69
Parking Structure	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Strip Mall	207.808	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00		24.45		0.00	0.00	24.60
Total		**0.04**	**0.34**	**0.16**	**0.00**		**0.00**	**0.03**		**0.00**	**0.03**		**429.67**		**0.01**	**0.01**	**432.29**

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	lb/day										lb/day					
Apartments Mid Rise	3.44437	0.04	0.32	0.14	0.00		0.00	0.03		0.00	0.03		405.22		0.01	0.01	407.69
Parking Structure	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Strip Mall	0.207808	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00		24.45		0.00	0.00	24.60
Total		**0.04**	**0.34**	**0.16**	**0.00**		**0.00**	**0.03**		**0.00**	**0.03**		**429.67**		**0.01**	**0.01**	**432.29**

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
No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.84	0.10	8.81	0.00		0.00	0.05		0.00	0.05	0.00	15.79		0.02	0.00	16.11
Unmitigated	19.77	0.61	43.56	0.08		0.00	5.60		0.00	5.60	740.96	1,905.79		2.95	0.05	2,722.72
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.69					0.00	0.00		0.00	0.00						0.00
Consumer Products	6.64					0.00	0.00		0.00	0.00						0.00
Hearth	11.18	0.51	34.76	0.08		0.00	5.55		0.00	5.55	740.96	1,890.00		2.93	0.05	2,706.61
Landscaping	0.27	0.10	8.81	0.00		0.00	0.05		0.00	0.05		15.79		0.02		16.11
Total	**19.78**	**0.61**	**43.57**	**0.08**		**0.00**	**5.60**		**0.00**	**5.60**	**740.96**	**1,905.79**		**2.95**	**0.05**	**2,722.72**

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	0.93					0.00	0.00		0.00	0.00						0.00
Consumer Products	6.64					0.00	0.00		0.00	0.00						0.00
Hearth	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
Landscaping	0.27	0.10	8.81	0.00		0.00	0.05		0.00	0.05		15.79		0.02		16.11
Total	**7.84**	**0.10**	**8.81**	**0.00**		**0.00**	**0.05**		**0.00**	**0.05**	**0.00**	**15.79**		**0.02**	**0.00**	**16.11**

7.0 Water Detail

7.1 Mitigation Measures Water

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Vegetation

Beach and Ellis EIR
Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Parking Structure	483	Space
Apartments Mid Rise	105	Dwelling Unit
Strip Mall	37	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Utility Company**	Southern California Edison
Climate Zone	8	**Precipitation Freq (Days)**	30		

1.3 User Entered Comments

Project Characteristics - SCE Emission Factors updated to reflect most recent (2007) eGrid numbers.
Land Use - 2.74 equals total lot acreage
Construction Phase - Construction Schedule provided by project applicant
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Demolition -
Grading - 2.74 equals total site acreage
Woodstoves - No fireplaces
Solid Waste - Landfill has gas collection
Construction Off-road Equipment Mitigation -
Mobile Land Use Mitigation -
Area Mitigation - 10% reduction in VOCs
Water Mitigation -
Waste Mitigation -
Architectural Coating - rates indicate a 10% decrease in VOC content for residential and 125 for non-residential

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	9.80	42.70	43.84	0.09	4.96	2.84	7.80	0.14	2.84	2.98	0.00	8,074.06	0.00	0.69	0.00	8,088.54
2017	142.65	24.15	29.10	0.06	3.05	1.37	4.42	0.13	1.37	1.50	0.00	5,988.45	0.00	0.40	0.00	5,996.93
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	9.80	42.70	43.84	0.09	2.04	2.84	4.87	0.14	2.84	2.98	0.00	8,074.06	0.00	0.69	0.00	8,088.54
2017	142.65	24.15	29.10	0.06	1.82	1.37	3.19	0.13	1.37	1.50	0.00	5,988.45	0.00	0.40	0.00	5,996.93
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	19.77	0.61	43.56	0.08		0.00	5.60		0.00	5.60	740.96	1,905.79		2.95	0.05	2,722.72
Energy	0.04	0.34	0.15	0.00		0.00	0.03		0.00	0.03		429.67		0.01	0.01	432.28
Mobile	20.98	13.87	75.06	0.18	20.74	0.88	21.62	0.29	0.77	1.06		15,707.83		0.63		15,721.04
Total	**40.79**	**14.82**	**118.77**	**0.26**	**20.74**	**0.88**	**27.25**	**0.29**	**0.77**	**6.69**	**740.96**	**18,043.29**		**3.59**	**0.06**	**18,876.04**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.84	0.10	8.81	0.00		0.00	0.05		0.00	0.05	0.00	15.79		0.02	0.00	16.11
Energy	0.04	0.34	0.15	0.00		0.00	0.03		0.00	0.03		429.67		0.01	0.01	432.28
Mobile	14.21	9.81	51.96	0.12	12.89	0.56	13.46	0.18	0.49	0.67		9,924.80		0.41		9,933.49
Total	**22.09**	**10.25**	**60.92**	**0.12**	**12.89**	**0.56**	**13.54**	**0.18**	**0.49**	**0.75**	**0.00**	**10,370.26**		**0.44**	**0.01**	**10,381.88**

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Soil Stabilizer
Replace Ground Cover
Water Exposed Area
Water Unpaved Roads
Reduce Vehicle Speed on Unpaved Roads
Clean Paved Roads

3.2 Demolition - 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					0.64	0.00	0.64	0.00	0.00	0.00						0.00
Off-Road	1.55	11.08	9.08	0.02		0.74	0.74		0.74	0.74		1,476.12		0.14		1,479.02
Total	**1.55**	**11.08**	**9.08**	**0.02**	**0.64**	**0.74**	**1.38**	**0.00**	**0.74**	**0.74**		**1,476.12**		**0.14**		**1,479.02**

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	0.15	1.04	0.66	0.00	2.94	0.04	2.98	0.01	0.04	0.05		241.02		0.01		241.13
Vendor	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
Worker	0.15	0.04	0.53	0.00	0.15	0.00	0.16	0.01	0.00	0.01		113.46		0.01		113.58
Total	**0.30**	**1.08**	**1.19**	**0.00**	**3.09**	**0.04**	**3.14**	**0.02**	**0.04**	**0.06**		**354.48**		**0.02**		**354.71**

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					0.24	0.00	0.24	0.00	0.00	0.00						0.00
Off-Road	1.55	11.08	9.08	0.02		0.74	0.74		0.74	0.74	0.00	1,476.12		0.14		1,479.02
Total	**1.55**	**11.08**	**9.08**	**0.02**	**0.24**	**0.74**	**0.98**	**0.00**	**0.74**	**0.74**	**0.00**	**1,476.12**		**0.14**		**1,479.02**

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	0.15	1.04	0.66	0.00	1.71	0.04	1.75	0.01	0.04	0.05		241.02		0.01		241.13
Vendor	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
Worker	0.15	0.04	0.53	0.00	0.09	0.00	0.10	0.01	0.00	0.01		113.46		0.01		113.58
Total	**0.30**	**1.08**	**1.19**	**0.00**	**1.80**	**0.04**	**1.85**	**0.02**	**0.04**	**0.06**		**354.48**		**0.02**		**354.71**

3.3 Mass Site 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					4.59	0.00	4.59	0.00	0.00	0.00						0.00
Off-Road	3.53	26.65	16.15	0.04		1.20	1.20		1.20	1.20		3,768.76		0.32		3,775.42
Total	**3.53**	**26.65**	**16.15**	**0.04**	**4.59**	**1.20**	**5.79**	**0.00**	**1.20**	**1.20**		**3,768.76**		**0.32**		**3,775.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.15	0.04	0.53	0.00	0.15	0.00	0.16	0.01	0.00	0.01		113.46		0.01		113.58
Total	**0.15**	**0.04**	**0.53**	**0.00**	**0.15**	**0.00**	**0.16**	**0.01**	**0.00**	**0.01**		**113.46**		**0.01**		**113.58**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.70	0.00	1.70	0.00	0.00	0.00						0.00
Off-Road	3.53	26.65	16.15	0.04		1.20	1.20		1.20	1.20	0.00	3,768.76		0.32		3,775.42
Total	**3.53**	**26.65**	**16.15**	**0.04**	**1.70**	**1.20**	**2.90**	**0.00**	**1.20**	**1.20**	**0.00**	**3,768.76**		**0.32**		**3,775.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.15	0.04	0.53	0.00	0.09	0.00	0.10	0.01	0.00	0.01		113.46		0.01		113.58
Total	**0.15**	**0.04**	**0.53**	**0.00**	**0.09**	**0.00**	**0.10**	**0.01**	**0.00**	**0.01**		**113.46**		**0.01**		**113.58**

3.4 Fine Site 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					4.81	0.00	4.81	0.00	0.00	0.00						0.00
Off-Road	3.53	26.65	16.15	0.04		1.20	1.20		1.20	1.20		3,768.76		0.32		3,775.42
Total	**3.53**	**26.65**	**16.15**	**0.04**	**4.81**	**1.20**	**6.01**	**0.00**	**1.20**	**1.20**		**3,768.76**		**0.32**		**3,775.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.15	0.04	0.53	0.00	0.15	0.00	0.16	0.01	0.00	0.01		113.46		0.01		113.58
Total	**0.15**	**0.04**	**0.53**	**0.00**	**0.15**	**0.00**	**0.16**	**0.01**	**0.00**	**0.01**		**113.46**		**0.01**		**113.58**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.78	0.00	1.78	0.00	0.00	0.00						0.00
Off-Road	3.53	26.65	16.15	0.04		1.20	1.20		1.20	1.20	0.00	3,768.76		0.32		3,775.42
Total	**3.53**	**26.65**	**16.15**	**0.04**	**1.78**	**1.20**	**2.98**	**0.00**	**1.20**	**1.20**	**0.00**	**3,768.76**		**0.32**		**3,775.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.15	0.04	0.53	0.00	0.09	0.00	0.10	0.01	0.00	0.01		113.46		0.01		113.58
Total	**0.15**	**0.04**	**0.53**	**0.00**	**0.09**	**0.00**	**0.10**	**0.01**	**0.00**	**0.01**		**113.46**		**0.01**		**113.58**

3.5 Trenching - 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	2.75	18.86	17.90	0.03		1.08	1.08		1.08	1.08		2,971.42		0.25		2,976.58
Total	**2.75**	**18.86**	**17.90**	**0.03**		**1.08**	**1.08**		**1.08**	**1.08**		**2,971.42**		**0.25**		**2,976.58**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.15	0.04	0.53	0.00	0.15	0.00	0.16	0.01	0.00	0.01		113.46		0.01		113.58
Total	**0.15**	**0.04**	**0.53**	**0.00**	**0.15**	**0.00**	**0.16**	**0.01**	**0.00**	**0.01**		**113.46**		**0.01**		**113.58**

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	2.75	18.86	17.90	0.03		1.08	1.08		1.08	1.08	0.00	2,971.42		0.25		2,976.58
Total	**2.75**	**18.86**	**17.90**	**0.03**		**1.08**	**1.08**		**1.08**	**1.08**	**0.00**	**2,971.42**		**0.25**		**2,976.58**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.15	0.04	0.53	0.00	0.09	0.00	0.10	0.01	0.00	0.01		113.46		0.01		113.58
Total	**0.15**	**0.04**	**0.53**	**0.00**	**0.09**	**0.00**	**0.10**	**0.01**	**0.00**	**0.01**		**113.46**		**0.01**		**113.58**

3.6 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	3.63	19.67	17.49	0.03		1.27	1.27		1.27	1.27		2,776.65		0.32		2,783.47
Total	**3.63**	**19.67**	**17.49**	**0.03**		**1.27**	**1.27**		**1.27**	**1.27**		**2,776.65**		**0.32**		**2,783.47**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.69	5.72	3.89	0.01	0.46	0.18	0.64	0.04	0.18	0.22		1,331.92		0.03		1,332.48
Worker	2.56	0.76	8.87	0.02	2.59	0.08	2.68	0.10	0.08	0.18		1,917.54		0.09		1,919.46
Total	**3.25**	**6.48**	**12.76**	**0.03**	**3.05**	**0.26**	**3.32**	**0.14**	**0.26**	**0.40**		**3,249.46**		**0.12**		**3,251.94**

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	3.63	19.67	17.49	0.03		1.27	1.27		1.27	1.27	0.00	2,776.65		0.32		2,783.47
Total	**3.63**	**19.67**	**17.49**	**0.03**		**1.27**	**1.27**		**1.27**	**1.27**	**0.00**	**2,776.65**		**0.32**		**2,783.47**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.69	5.72	3.89	0.01	0.28	0.18	0.46	0.04	0.18	0.22		1,331.92		0.03		1,332.48
Worker	2.56	0.76	8.87	0.02	1.55	0.08	1.63	0.10	0.08	0.18		1,917.54		0.09		1,919.46
Total	**3.25**	**6.48**	**12.76**	**0.03**	**1.83**	**0.26**	**2.09**	**0.14**	**0.26**	**0.40**		**3,249.46**		**0.12**		**3,251.94**

3.6 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	3.29	18.16	17.25	0.03		1.12	1.12		1.12	1.12		2,776.65		0.29		2,782.81
Total	**3.29**	**18.16**	**17.25**	**0.03**		**1.12**	**1.12**		**1.12**	**1.12**		**2,776.65**		**0.29**		**2,782.81**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.65	5.30	3.62	0.01	0.46	0.16	0.62	0.04	0.16	0.20		1,335.67		0.02		1,336.19
Worker	2.46	0.69	8.22	0.02	2.59	0.08	2.68	0.10	0.08	0.18		1,876.13		0.09		1,877.93
Total	**3.11**	**5.99**	**11.84**	**0.03**	**3.05**	**0.24**	**3.30**	**0.14**	**0.24**	**0.38**		**3,211.80**		**0.11**		**3,214.12**

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	3.29	18.16	17.25	0.03		1.12	1.12		1.12	1.12	0.00	2,776.65		0.29		2,782.81
Total	**3.29**	**18.16**	**17.25**	**0.03**		**1.12**	**1.12**		**1.12**	**1.12**	**0.00**	**2,776.65**		**0.29**		**2,782.81**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.65	5.30	3.62	0.01	0.28	0.16	0.44	0.04	0.16	0.20		1,335.67		0.02		1,336.19
Worker	2.46	0.69	8.22	0.02	1.55	0.08	1.63	0.10	0.08	0.18		1,876.13		0.09		1,877.93
Total	**3.11**	**5.99**	**11.84**	**0.03**	**1.83**	**0.24**	**2.07**	**0.14**	**0.24**	**0.38**		**3,211.80**		**0.11**		**3,214.12**

3.7 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	2.64	16.46	12.64	0.02		1.30	1.30		1.30	1.30		1,843.72		0.24		1,848.68
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**2.64**	**16.46**	**12.64**	**0.02**		**1.30**	**1.30**		**1.30**	**1.30**		**1,843.72**		**0.24**		**1,848.68**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.27	0.08	0.95	0.00	0.28	0.01	0.29	0.01	0.01	0.02		204.24		0.01		204.44
Total	**0.27**	**0.08**	**0.95**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**204.24**		**0.01**		**204.44**

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	2.64	16.46	12.64	0.02		1.30	1.30		1.30	1.30	0.00	1,843.72		0.24		1,848.68
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**2.64**	**16.46**	**12.64**	**0.02**		**1.30**	**1.30**		**1.30**	**1.30**	**0.00**	**1,843.72**		**0.24**		**1,848.68**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.27	0.08	0.95	0.00	0.16	0.01	0.17	0.01	0.01	0.02		204.24		0.01		204.44
Total	**0.27**	**0.08**	**0.95**	**0.00**	**0.16**	**0.01**	**0.17**	**0.01**	**0.01**	**0.02**		**204.24**		**0.01**		**204.44**

3.8 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	141.82					0.00	0.00		0.00	0.00						0.00
Off-Road	0.33	2.18	1.87	0.00		0.17	0.17		0.17	0.17		281.19		0.03		281.81
Total	**142.15**	**2.18**	**1.87**	**0.00**		**0.17**	**0.17**		**0.17**	**0.17**		**281.19**		**0.03**		**281.81**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.50	0.14	1.65	0.00	0.52	0.02	0.54	0.02	0.02	0.04		377.45		0.02		377.81
Total	**0.50**	**0.14**	**1.65**	**0.00**	**0.52**	**0.02**	**0.54**	**0.02**	**0.02**	**0.04**		**377.45**		**0.02**		**377.81**

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	141.82					0.00	0.00		0.00	0.00						0.00
Off-Road	0.33	2.18	1.87	0.00		0.17	0.17		0.17	0.17	0.00	281.19		0.03		281.81
Total	**142.15**	**2.18**	**1.87**	**0.00**		**0.17**	**0.17**		**0.17**	**0.17**	**0.00**	**281.19**		**0.03**		**281.81**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.50	0.14	1.65	0.00	0.31	0.02	0.33	0.02	0.02	0.04		377.45		0.02		377.81
Total	**0.50**	**0.14**	**1.65**	**0.00**	**0.31**	**0.02**	**0.33**	**0.02**	**0.02**	**0.04**		**377.45**		**0.02**		**377.81**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

Increase Density
Increase Diversity
Increase Transit Accessibility
Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	14.21	9.81	51.96	0.12	12.89	0.56	13.46	0.18	0.49	0.67		9,924.80		0.41		9,933.49
Unmitigated	20.98	13.87	75.06	0.18	20.74	0.88	21.62	0.29	0.77	1.06		15,707.83		0.63		15,721.04
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	691.95	751.80	637.35	2,307,089	1,433,972
Parking Structure	0.00	0.00	0.00		
Strip Mall	1,639.84	1,555.48	755.91	3,449,680	2,144,151
Total	2,331.79	2,307.28	1,393.26	5,756,769	3,578,123

4.3 Trip Type Information

	Miles			Trip %		
Land Use	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
Apartments Mid Rise	12.70	7.00	9.50	40.20	19.20	40.60
Parking Structure	8.90	13.30	7.40	0.00	0.00	0.00
Strip Mall	8.90	13.30	7.40	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.04	0.34	0.15	0.00		0.00	0.03		0.00	0.03		429.67		0.01	0.01	432.28
NaturalGas Unmitigated	0.04	0.34	0.15	0.00		0.00	0.03		0.00	0.03		429.67		0.01	0.01	432.28
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	lb/day										lb/day					
Apartments Mid Rise	3444.37	0.04	0.32	0.14	0.00		0.00	0.03		0.00	0.03		405.22		0.01	0.01	407.69
Parking Structure	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Strip Mall	207.808	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00		24.45		0.00	0.00	24.60
Total		**0.04**	**0.34**	**0.16**	**0.00**		**0.00**	**0.03**		**0.00**	**0.03**		**429.67**		**0.01**	**0.01**	**432.29**

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	lb/day										lb/day					
Apartments Mid Rise	3.44437	0.04	0.32	0.14	0.00		0.00	0.03		0.00	0.03		405.22		0.01	0.01	407.69
Parking Structure	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Strip Mall	0.207808	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00		24.45		0.00	0.00	24.60
Total		**0.04**	**0.34**	**0.16**	**0.00**		**0.00**	**0.03**		**0.00**	**0.03**		**429.67**		**0.01**	**0.01**	**432.29**

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
No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.84	0.10	8.81	0.00		0.00	0.05		0.00	0.05	0.00	15.79		0.02	0.00	16.11
Unmitigated	19.77	0.61	43.56	0.08		0.00	5.60		0.00	5.60	740.96	1,905.79		2.95	0.05	2,722.72
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.69					0.00	0.00		0.00	0.00						0.00
Consumer Products	6.64					0.00	0.00		0.00	0.00						0.00
Hearth	11.18	0.51	34.76	0.08		0.00	5.55		0.00	5.55	740.96	1,890.00		2.93	0.05	2,706.61
Landscaping	0.27	0.10	8.81	0.00		0.00	0.05		0.00	0.05		15.79		0.02		16.11
Total	**19.78**	**0.61**	**43.57**	**0.08**		**0.00**	**5.60**		**0.00**	**5.60**	**740.96**	**1,905.79**		**2.95**	**0.05**	**2,722.72**

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	0.93					0.00	0.00		0.00	0.00						0.00
Consumer Products	6.64					0.00	0.00		0.00	0.00						0.00
Hearth	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
Landscaping	0.27	0.10	8.81	0.00		0.00	0.05		0.00	0.05		15.79		0.02		16.11
Total	**7.84**	**0.10**	**8.81**	**0.00**		**0.00**	**0.05**		**0.00**	**0.05**	**0.00**	**15.79**		**0.02**	**0.00**	**16.11**

7.0 Water Detail

7.1 Mitigation Measures Water

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Vegetation

Beach and Ellis EIR
Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Parking Structure	483	Space
Apartments Mid Rise	105	Dwelling Unit
Strip Mall	37	1000sqft

Urbanization	Urban	**Wind Speed (m/s)**	
Climate Zone	8		2.2
		Precipitation Freq (Days)	
			30

1.3 User Entered Comments

Project Characteristics - SCE Emission Factors updated to reflect most recent (2007) eGrid numbers.
Land Use - 2.74 equals total lot acreage
Construction Phase - Construction Schedule provided by project applicant
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Demolition -
Grading - 2.74 equals total site acreage
Woodstoves - No fireplaces
Solid Waste - Landfill has gas collection
Construction Off-road Equipment Mitigation -
Mobile Land Use Mitigation -
Area Mitigation - 10% reduction in VOCs
Water Mitigation -
Waste Mitigation -
Architectural Coating - rates indicate a 10% decrease in VOC content for residential and 125 for non-residential

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.72	3.26	3.23	0.01	0.42	0.19	0.60	0.08	0.19	0.27	0.00	577.31	577.31	0.05	0.00	578.25
2017	2.43	2.68	3.25	0.01	0.31	0.15	0.46	0.01	0.15	0.17	0.00	595.81	595.81	0.04	0.00	596.67
Total	**3.15**	**5.94**	**6.48**	**0.02**	**0.73**	**0.34**	**1.06**	**0.09**	**0.34**	**0.44**	**0.00**	**1,173.12**	**1,173.12**	**0.09**	**0.00**	**1,174.92**

Mitigated Construction

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.72	3.26	3.23	0.01	0.22	0.19	0.40	0.04	0.19	0.22	0.00	577.31	577.31	0.05	0.00	578.25
2017	2.43	2.68	3.25	0.01	0.19	0.15	0.34	0.01	0.15	0.17	0.00	595.81	595.81	0.04	0.00	596.67
Total	**3.15**	**5.94**	**6.48**	**0.02**	**0.41**	**0.34**	**0.74**	**0.05**	**0.34**	**0.39**	**0.00**	**1,173.12**	**1,173.12**	**0.09**	**0.00**	**1,174.92**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.92	0.03	2.27	0.00		0.00	0.11		0.00	0.11	11.15	66.91	78.06	0.04	0.00	79.31
Energy	0.01	0.06	0.03	0.00		0.00	0.00		0.00	0.00	0.00	231.89	231.89	0.00	0.00	233.19
Mobile	3.65	2.32	12.56	0.03	3.14	0.15	3.28	0.05	0.13	0.18	0.00	2,290.85	2,290.85	0.10	0.00	2,292.89
Waste						0.00	0.00		0.00	0.00	17.69	0.00	17.69	1.05	0.00	39.65
Water						0.00	0.00		0.00	0.00	0.00	36.62	36.62	0.29	0.01	45.21
Total	**5.58**	**2.41**	**14.86**	**0.03**	**3.14**	**0.15**	**3.39**	**0.05**	**0.13**	**0.29**	**28.84**	**2,626.27**	**2,655.11**	**1.48**	**0.01**	**2,690.25**

Mitigated Operational

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.43	0.02	1.61	0.00		0.00	0.01		0.00	0.01	0.00	2.61	2.61	0.00	0.00	2.67
Energy	0.01	0.06	0.03	0.00		0.00	0.00		0.00	0.00	0.00	231.89	231.89	0.00	0.00	233.19
Mobile	2.45	1.64	8.92	0.02	1.95	0.09	2.04	0.03	0.08	0.11	0.00	1,448.09	1,448.09	0.06	0.00	1,449.44
Waste						0.00	0.00		0.00	0.00	8.85	0.00	8.85	0.52	0.00	19.82
Water						0.00	0.00		0.00	0.00	0.00	31.06	31.06	0.23	0.01	37.94
Total	**3.89**	**1.72**	**10.56**	**0.02**	**1.95**	**0.09**	**2.05**	**0.03**	**0.08**	**0.12**	**8.85**	**1,713.65**	**1,722.50**	**0.81**	**0.01**	**1,743.06**

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Soil Stabilizer
Replace Ground Cover
Water Exposed Area
Water Unpaved Roads
Reduce Vehicle Speed on Unpaved Roads
Clean Paved Roads

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.03	0.24	0.20	0.00		0.02	0.02		0.02	0.02	0.00	28.78	28.78	0.00	0.00	28.84
Total	**0.03**	**0.24**	**0.20**	**0.00**	**0.01**	**0.02**	**0.03**	**0.00**	**0.02**	**0.02**	**0.00**	**28.78**	**28.78**	**0.00**	**0.00**	**28.84**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.02	0.02	0.00	0.06	0.00	0.06	0.00	0.00	0.00	0.00	4.69	4.69	0.00	0.00	4.69
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.11	2.11	0.00	0.00	2.12
Total	**0.00**	**0.02**	**0.03**	**0.00**	**0.06**	**0.00**	**0.06**	**0.00**	**0.00**	**0.00**	**0.00**	**6.80**	**6.80**	**0.00**	**0.00**	**6.81**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.03	0.24	0.20	0.00		0.02	0.02		0.02	0.02	0.00	28.78	28.78	0.00	0.00	28.84
Total	**0.03**	**0.24**	**0.20**	**0.00**	**0.01**	**0.02**	**0.03**	**0.00**	**0.02**	**0.02**	**0.00**	**28.78**	**28.78**	**0.00**	**0.00**	**28.84**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.02	0.02	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00	4.69	4.69	0.00	0.00	4.69
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.11	2.11	0.00	0.00	2.12
Total	**0.00**	**0.02**	**0.03**	**0.00**	**0.03**	**0.00**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**	**6.80**	**6.80**	**0.00**	**0.00**	**6.81**

3.3 Mass Site Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.10	0.00	0.10	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.08	0.59	0.36	0.00		0.03	0.03		0.03	0.03	0.00	75.20	75.20	0.01	0.00	75.33
Total	**0.08**	**0.59**	**0.36**	**0.00**	**0.10**	**0.03**	**0.13**	**0.05**	**0.03**	**0.08**	**0.00**	**75.20**	**75.20**	**0.01**	**0.00**	**75.33**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.16	2.16	0.00	0.00	2.17
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.16**	**2.16**	**0.00**	**0.00**	**2.17**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.04	0.00	0.04	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.08	0.59	0.36	0.00		0.03	0.03		0.03	0.03	0.00	75.20	75.20	0.01	0.00	75.33
Total	**0.08**	**0.59**	**0.36**	**0.00**	**0.04**	**0.03**	**0.07**	**0.02**	**0.03**	**0.05**	**0.00**	**75.20**	**75.20**	**0.01**	**0.00**	**75.33**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.16	2.16	0.00	0.00	2.17
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.16**	**2.16**	**0.00**	**0.00**	**2.17**

3.4 Fine Site Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.03	0.00	0.03	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.02	0.15	0.09	0.00		0.01	0.01		0.01	0.01	0.00	18.80	18.80	0.00	0.00	18.83
Total	**0.02**	**0.15**	**0.09**	**0.00**	**0.03**	**0.01**	**0.04**	**0.01**	**0.01**	**0.02**	**0.00**	**18.80**	**18.80**	**0.00**	**0.00**	**18.83**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.54	0.00	0.00	0.54
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.54**	**0.54**	**0.00**	**0.00**	**0.54**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.02	0.15	0.09	0.00		0.01	0.01		0.01	0.01	0.00	18.80	18.80	0.00	0.00	18.83
Total	**0.02**	**0.15**	**0.09**	**0.00**	**0.01**	**0.01**	**0.02**	**0.01**	**0.01**	**0.02**	**0.00**	**18.80**	**18.80**	**0.00**	**0.00**	**18.83**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.54	0.00	0.00	0.54
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.54**	**0.54**	**0.00**	**0.00**	**0.54**

3.5 Trenching - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.02	0.10	0.10	0.00		0.01	0.01		0.01	0.01	0.00	14.82	14.82	0.00	0.00	14.85
Total	**0.02**	**0.10**	**0.10**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**14.82**	**14.82**	**0.00**	**0.00**	**14.85**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.54	0.00	0.00	0.54
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.54**	**0.54**	**0.00**	**0.00**	**0.54**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.02	0.10	0.10	0.00		0.01	0.01		0.01	0.01	0.00	14.82	14.82	0.00	0.00	14.85
Total	**0.02**	**0.10**	**0.10**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**14.82**	**14.82**	**0.00**	**0.00**	**14.85**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.54	0.00	0.00	0.54
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.54**	**0.54**	**0.00**	**0.00**	**0.54**

3.6 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.28	1.49	1.33	0.00		0.10	0.10		0.10	0.10	0.00	191.39	191.39	0.02	0.00	191.86
Total	**0.28**	**1.49**	**1.33**	**0.00**		**0.10**	**0.10**		**0.10**	**0.10**	**0.00**	**191.39**	**191.39**	**0.02**	**0.00**	**191.86**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	0.05	0.43	0.32	0.00	0.03	0.01	0.05	0.00	0.01	0.02	0.00	91.58	91.58	0.00	0.00	91.62
Worker	0.20	0.06	0.65	0.00	0.18	0.01	0.18	0.01	0.01	0.01	0.00	126.34	126.34	0.01	0.00	126.47
Total	**0.25**	**0.49**	**0.97**	**0.00**	**0.21**	**0.02**	**0.23**	**0.01**	**0.02**	**0.03**	**0.00**	**217.92**	**217.92**	**0.01**	**0.00**	**218.09**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.28	1.49	1.33	0.00		0.10	0.10		0.10	0.10	0.00	191.39	191.39	0.02	0.00	191.86
Total	**0.28**	**1.49**	**1.33**	**0.00**		**0.10**	**0.10**		**0.10**	**0.10**	**0.00**	**191.39**	**191.39**	**0.02**	**0.00**	**191.86**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	0.05	0.43	0.32	0.00	0.02	0.01	0.03	0.00	0.01	0.02	0.00	91.58	91.58	0.00	0.00	91.62
Worker	0.20	0.06	0.65	0.00	0.11	0.01	0.11	0.01	0.01	0.01	0.00	126.34	126.34	0.01	0.00	126.47
Total	**0.25**	**0.49**	**0.97**	**0.00**	**0.13**	**0.02**	**0.14**	**0.01**	**0.02**	**0.03**	**0.00**	**217.92**	**217.92**	**0.01**	**0.00**	**218.09**

3.6 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.36	2.00	1.90	0.00		0.12	0.12		0.12	0.12	0.00	277.01	277.01	0.03	0.00	277.62
Total	**0.36**	**2.00**	**1.90**	**0.00**		**0.12**	**0.12**		**0.12**	**0.12**	**0.00**	**277.01**	**277.01**	**0.03**	**0.00**	**277.62**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	0.07	0.57	0.44	0.00	0.05	0.02	0.06	0.00	0.02	0.02	0.00	132.92	132.92	0.00	0.00	132.97
Worker	0.28	0.08	0.87	0.00	0.26	0.01	0.27	0.01	0.01	0.02	0.00	178.90	178.90	0.01	0.00	179.08
Total	**0.35**	**0.65**	**1.31**	**0.00**	**0.31**	**0.03**	**0.33**	**0.01**	**0.03**	**0.04**	**0.00**	**311.82**	**311.82**	**0.01**	**0.00**	**312.05**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.36	2.00	1.90	0.00		0.12	0.12		0.12	0.12	0.00	277.01	277.01	0.03	0.00	277.62
Total	**0.36**	**2.00**	**1.90**	**0.00**		**0.12**	**0.12**		**0.12**	**0.12**	**0.00**	**277.01**	**277.01**	**0.03**	**0.00**	**277.62**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	0.07	0.57	0.44	0.00	0.03	0.02	0.05	0.00	0.02	0.02	0.00	132.92	132.92	0.00	0.00	132.97
Worker	0.28	0.08	0.87	0.00	0.15	0.01	0.16	0.01	0.01	0.02	0.00	178.90	178.90	0.01	0.00	179.08
Total	**0.35**	**0.65**	**1.31**	**0.00**	**0.18**	**0.03**	**0.21**	**0.01**	**0.03**	**0.04**	**0.00**	**311.82**	**311.82**	**0.01**	**0.00**	**312.05**

3.7 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.03	0.18	0.14	0.00		0.01	0.01		0.01	0.01	0.00	18.39	18.39	0.00	0.00	18.44
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.03**	**0.18**	**0.14**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**18.39**	**18.39**	**0.00**	**0.00**	**18.44**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.00	0.00	1.95
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.95**	**1.95**	**0.00**	**0.00**	**1.95**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.03	0.18	0.14	0.00		0.01	0.01		0.01	0.01	0.00	18.39	18.39	0.00	0.00	18.44
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.03**	**0.18**	**0.14**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**18.39**	**18.39**	**0.00**	**0.00**	**18.44**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.00	0.00	1.95
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.95**	**1.95**	**0.00**	**0.00**	**1.95**

3.8 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.70					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.03	0.02	0.00		0.00	0.00		0.00	0.00	0.00	3.06	3.06	0.00	0.00	3.07
Total	**1.70**	**0.03**	**0.02**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**3.06**	**3.06**	**0.00**	**0.00**	**3.07**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	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
Worker	0.01	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	3.93	3.93	0.00	0.00	3.93
Total	**0.01**	**0.00**	**0.02**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**3.93**	**3.93**	**0.00**	**0.00**	**3.93**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.70					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.03	0.02	0.00		0.00	0.00		0.00	0.00	0.00	3.06	3.06	0.00	0.00	3.07
Total	**1.70**	**0.03**	**0.02**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**3.06**	**3.06**	**0.00**	**0.00**	**3.07**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	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
Worker	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.93	3.93	0.00	0.00	3.93
Total	**0.01**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**3.93**	**3.93**	**0.00**	**0.00**	**3.93**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

Increase Density
Increase Diversity
Increase Transit Accessibility
Improve Pedestrian Network

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.45	1.64	8.92	0.02	1.95	0.09	2.04	0.03	0.08	0.11	0.00	1,448.09	1,448.09	0.06	0.00	1,449.44
Unmitigated	3.65	2.32	12.56	0.03	3.14	0.15	3.28	0.05	0.13	0.18	0.00	2,290.85	2,290.85	0.10	0.00	2,292.89
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	691.95	751.80	637.35	2,307,089	1,433,972
Parking Structure	0.00	0.00	0.00		
Strip Mall	1,639.84	1,555.48	755.91	3,449,680	2,144,151
Total	2,331.79	2,307.28	1,393.26	5,756,769	3,578,123

4.3 Trip Type Information

	Miles			Trip %		
Land Use	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
Apartments Mid Rise	12.70	7.00	9.50	40.20	19.20	40.60
Parking Structure	8.90	13.30	7.40	0.00	0.00	0.00
Strip Mall	8.90	13.30	7.40	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.00	0.00		0.00	0.00	0.00	160.75	160.75	0.00	0.00	161.62
Unmitigated						0.00	0.00		0.00	0.00	0.00	160.75	160.75	0.00	0.00	161.62
Mitigated	0.01	0.06	0.03	0.00		0.00	0.00		0.00	0.00	0.00	71.14	71.14	0.00	0.00	71.57
Unmitigated	0.01	0.06	0.03	0.00		0.00	0.00		0.00	0.00	0.00	71.14	71.14	0.00	0.00	71.57
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	tons/yr										MT/yr					
Apartments Mid Rise	1.25719e+006	0.01	0.06	0.02	0.00		0.00	0.00		0.00	0.00	0.00	67.09	67.09	0.00	0.00	67.50
Parking Structure	0	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
Strip Mall	75850	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	4.05	4.05	0.00	0.00	4.07
Total		**0.01**	**0.06**	**0.02**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**71.14**	**71.14**	**0.00**	**0.00**	**71.57**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	tons/yr										MT/yr					
Apartments Mid Rise	1.25719e+006	0.01	0.06	0.02	0.00		0.00	0.00		0.00	0.00	0.00	67.09	67.09	0.00	0.00	67.50
Parking Structure	0	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
Strip Mall	75850	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	4.05	4.05	0.00	0.00	4.07
Total		**0.01**	**0.06**	**0.02**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**71.14**	**71.14**	**0.00**	**0.00**	**71.57**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Mid Rise	368763					70.37	0.00	0.00	70.75
Parking Structure	0					0.00	0.00	0.00	0.00
Strip Mall	473600					90.38	0.00	0.00	90.87
Total						**160.75**	**0.00**	**0.00**	**161.62**

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Mid Rise	368763					70.37	0.00	0.00	70.75
Parking Structure	0					0.00	0.00	0.00	0.00
Strip Mall	473600					90.38	0.00	0.00	90.87
Total						**160.75**	**0.00**	**0.00**	**161.62**

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
No Hearths Installed

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.43	0.02	1.61	0.00		0.00	0.01		0.00	0.01	0.00	2.61	2.61	0.00	0.00	2.67
Unmitigated	1.92	0.03	2.27	0.00		0.00	0.11		0.00	0.11	11.15	66.91	78.06	0.04	0.00	79.31
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.31					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	1.21					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.35	0.01	0.66	0.00		0.00	0.10		0.00	0.10	11.15	64.30	75.45	0.03	0.00	76.64
Landscaping	0.05	0.02	1.61	0.00		0.00	0.01		0.00	0.01	0.00	2.61	2.61	0.00	0.00	2.67
Total	**1.92**	**0.03**	**2.27**	**0.00**		**0.00**	**0.11**		**0.00**	**0.11**	**11.15**	**66.91**	**78.06**	**0.03**	**0.00**	**79.31**

Mitigated

	ROG	NOx	CO	SO2	PM10	PM10	PM10 Total	PM2.5	PM2.5	Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.17					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	1.21					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	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
Landscaping	0.05	0.02	1.61	0.00		0.00	0.01		0.00	0.01	0.00	2.61	2.61	0.00	0.00	2.67
Total	**1.43**	**0.02**	**1.61**	**0.00**		**0.00**	**0.01**		**0.00**	**0.01**	**0.00**	**2.61**	**2.61**	**0.00**	**0.00**	**2.67**

7.0 Water Detail

7.1 Mitigation Measures Water

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

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					31.06	0.23	0.01	37.94
Unmitigated					36.62	0.29	0.01	45.21
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

7.2 Water by Land Use

Unmitigated

	Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Mid Rise	4.31291					26.22	0.21	0.01	32.35
Parking Structure	0 / 0					0.00	0.00	0.00	0.00
Strip Mall	1.67977					10.40	0.08	0.00	12.86
Total						**36.62**	**0.29**	**0.01**	**45.21**

Mitigated

	Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Mid Rise	4.04983					22.25	0.17	0.00	27.16
Parking Structure	0 / 0					0.00	0.00	0.00	0.00
Strip Mall	1.57731					8.82	0.07	0.00	10.78
Total						**31.07**	**0.24**	**0.00**	**37.94**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					8.85	0.52	0.00	19.82
Unmitigated					17.69	1.05	0.00	39.65
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Mid Rise	48.3					9.80	0.58	0.00	21.97
Parking Structure	0					0.00	0.00	0.00	0.00
Strip Mall	38.85					7.89	0.47	0.00	17.67
Total						**17.69**	**1.05**	**0.00**	**39.64**

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Mid Rise	24.15					4.90	0.29	0.00	10.99
Parking Structure	0					0.00	0.00	0.00	0.00
Strip Mall	19.425					3.94	0.23	0.00	8.84
Total						**8.84**	**0.52**	**0.00**	**19.83**

9.0 Vegetation