

Appendix B

*Air Quality and Greenhouse Gas Emissions
Modeling Results*



Crestridge Senior Housing
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Parking Lot	31	Space
Condo/Townhouse	60	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Utility Company	Southern California Edison
Climate Zone	8	Precipitation Freq (Days)	33		

1.3 User Entered Comments

Project Characteristics -
 Land Use - 9.76 lot acreage
 Construction Phase - No existing structures - No Demo
 Schedule based on RGP Estimated Schedule
 Architectural Coating to being simulataneous with end of building construction
 Trips and VMT - Landfill in Palos Verdes - Chandlers - 5.3 miles from site
 Construction Trips based on LLG Study

On-road Fugitive Dust -

Demolition -

Grading - 145,000 cubic yards of cut / 2,000 cubic yards of fill -

Vehicle Trips - 8.0 - LA County condo rates

Energy Use -

Land Use Change - 0

Sequestration -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy 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					
2013	1.22	9.67	6.07	0.01	8.75	0.50	9.26	0.64	0.50	1.15	0.00	1,009.43	1,009.43	0.09	0.00	1,011.27
2014	0.89	4.03	3.29	0.01	0.09	0.25	0.34	0.00	0.25	0.26	0.00	526.26	526.26	0.05	0.00	527.32
2015	0.45	0.05	0.05	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	6.69	6.69	0.00	0.00	6.70
Total	2.56	13.75	9.41	0.02	8.84	0.75	9.61	0.64	0.75	1.41	0.00	1,542.38	1,542.38	0.14	0.00	1,545.29

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					
2013	0.49	5.15	22.25	0.01	1.13	0.14	1.26	0.25	0.14	0.39	0.00	1,009.43	1,009.43	0.09	0.00	1,011.27
2014	0.47	2.25	3.49	0.01	0.01	0.03	0.04	0.00	0.03	0.03	0.00	526.26	526.26	0.05	0.00	527.32
2015	0.44	0.02	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.69	6.69	0.00	0.00	6.70
Total	1.40	7.42	25.79	0.02	1.14	0.17	1.30	0.25	0.17	0.42	0.00	1,542.38	1,542.38	0.14	0.00	1,545.29

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	0.87	0.02	1.31	0.00		0.00	0.06		0.00	0.06	6.37	38.23	44.61	0.02	0.00	45.32
Energy	0.01	0.07	0.03	0.00		0.00	0.01		0.00	0.01	0.00	155.92	155.92	0.00	0.00	156.88
Mobile	0.49	1.22	4.81	0.01	0.86	0.06	0.92	0.03	0.06	0.09	0.00	784.54	784.54	0.03	0.00	785.18
Waste						0.00	0.00		0.00	0.00	5.60	0.00	5.60	0.33	0.00	12.56
Water						0.00	0.00		0.00	0.00	0.00	22.81	22.81	0.12	0.00	26.38
Total	1.37	1.31	6.15	0.01	0.86	0.06	0.99	0.03	0.06	0.16	11.97	1,001.50	1,013.48	0.50	0.00	1,026.32

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.67	0.01	0.93	0.00		0.00	0.01		0.00	0.01	0.00	40.39	40.39	0.00	0.00	40.66
Energy	0.01	0.07	0.03	0.00		0.00	0.01		0.00	0.01	0.00	155.92	155.92	0.00	0.00	156.88
Mobile	0.49	1.22	4.81	0.01	0.86	0.06	0.92	0.03	0.06	0.09	0.00	784.54	784.54	0.03	0.00	785.18
Waste						0.00	0.00		0.00	0.00	2.80	0.00	2.80	0.17	0.00	6.28
Water						0.00	0.00		0.00	0.00	0.00	19.84	19.84	0.10	0.00	22.71
Total	1.17	1.30	5.77	0.01	0.86	0.06	0.94	0.03	0.06	0.11	2.80	1,000.69	1,003.49	0.30	0.00	1,011.71

3.0 Construction Detail

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use Soil Stabilizer
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Clearing and Grubbing - 2013

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					0.18	0.00	0.18	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.10	0.80	0.45	0.00		0.04	0.04		0.04	0.04	0.00	72.53	72.53	0.01	0.00	72.70
Total	0.10	0.80	0.45	0.00	0.18	0.04	0.22	0.10	0.04	0.14	0.00	72.53	72.53	0.01	0.00	72.70

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	0.02	0.14	0.10	0.00	0.10	0.01	0.10	0.00	0.01	0.01	0.00	18.61	18.61	0.00	0.00	18.62
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	1.11	1.11	0.00	0.00	1.11
Total	0.02	0.14	0.11	0.00	0.10	0.01	0.10	0.00	0.01	0.01	0.00	19.72	19.72	0.00	0.00	19.73

3.2 Clearing and Grubbing - 2013

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					0.07	0.00	0.07	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.02	0.24	3.01	0.00		0.00	0.00		0.00	0.00	0.00	72.53	72.53	0.01	0.00	72.70
Total	0.02	0.24	3.01	0.00	0.07	0.00	0.07	0.04	0.00	0.04	0.00	72.53	72.53	0.01	0.00	72.70

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	0.02	0.14	0.10	0.00	0.01	0.01	0.02	0.00	0.01	0.01	0.00	18.61	18.61	0.00	0.00	18.62
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	1.11	1.11	0.00	0.00	1.11
Total	0.02	0.14	0.11	0.00	0.01	0.01	0.02	0.00	0.01	0.01	0.00	19.72	19.72	0.00	0.00	19.73

3.3 Rough Grading - 2013

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					0.25	0.00	0.25	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.25	1.95	1.24	0.00		0.11	0.11		0.11	0.11	0.00	190.10	190.10	0.02	0.00	190.53
Total	0.25	1.95	1.24	0.00	0.25	0.11	0.36	0.13	0.11	0.24	0.00	190.10	190.10	0.02	0.00	190.53

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	0.25	2.26	1.54	0.00	6.30	0.10	6.39	0.01	0.10	0.11	0.00	297.62	297.62	0.01	0.00	297.85
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	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	4.42	4.42	0.00	0.00	4.43
Total	0.25	2.26	1.57	0.00	6.31	0.10	6.40	0.01	0.10	0.11	0.00	302.04	302.04	0.01	0.00	302.28

3.3 Rough Grading - 2013

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					0.09	0.00	0.09	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.05	0.77	4.68	0.00		0.01	0.01		0.01	0.01	0.00	190.10	190.10	0.02	0.00	190.53
Total	0.05	0.77	4.68	0.00	0.09	0.01	0.10	0.05	0.01	0.06	0.00	190.10	190.10	0.02	0.00	190.53

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	0.25	2.26	1.54	0.00	0.58	0.10	0.67	0.01	0.10	0.11	0.00	297.62	297.62	0.01	0.00	297.85
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	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.42	4.42	0.00	0.00	4.43
Total	0.25	2.26	1.57	0.00	0.58	0.10	0.67	0.01	0.10	0.11	0.00	302.04	302.04	0.01	0.00	302.28

3.4 Precise Grading - 2013

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					0.72	0.00	0.72	0.40	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.40	3.20	1.81	0.00		0.16	0.16		0.16	0.16	0.00	290.14	290.14	0.03	0.00	290.81
Total	0.40	3.20	1.81	0.00	0.72	0.16	0.88	0.40	0.16	0.56	0.00	290.14	290.14	0.03	0.00	290.81

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	tons/yr										MT/yr					
Hauling	0.05	0.42	0.29	0.00	1.18	0.02	1.20	0.00	0.02	0.02	0.00	55.80	55.80	0.00	0.00	55.84
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	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	4.42	4.42	0.00	0.00	4.43
Total	0.05	0.42	0.32	0.00	1.19	0.02	1.21	0.00	0.02	0.02	0.00	60.22	60.22	0.00	0.00	60.27

3.4 Precise Grading - 2013

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					0.27	0.00	0.27	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.08	0.96	12.04	0.00		0.01	0.01		0.01	0.01	0.00	290.14	290.14	0.03	0.00	290.81
Total	0.08	0.96	12.04	0.00	0.27	0.01	0.28	0.15	0.01	0.16	0.00	290.14	290.14	0.03	0.00	290.81

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	tons/yr										MT/yr					
Hauling	0.05	0.42	0.29	0.00	0.11	0.02	0.13	0.00	0.02	0.02	0.00	55.80	55.80	0.00	0.00	55.84
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	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.42	4.42	0.00	0.00	4.43
Total	0.05	0.42	0.32	0.00	0.11	0.02	0.13	0.00	0.02	0.02	0.00	60.22	60.22	0.00	0.00	60.27

3.5 Foundation and Base Pavement - 2013

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	0.14	0.85	0.52	0.00		0.07	0.07		0.07	0.07	0.00	66.15	66.15	0.01	0.00	66.39
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.14	0.85	0.52	0.00		0.07	0.07		0.07	0.07	0.00	66.15	66.15	0.01	0.00	66.39

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	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	4.15	4.15	0.00	0.00	4.15
Total	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	4.15	4.15	0.00	0.00	4.15

3.5 Foundation and Base Pavement - 2013

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	0.32	0.47	0.00		0.00	0.00		0.00	0.00	0.00	66.15	66.15	0.01	0.00	66.39
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	0.32	0.47	0.00		0.00	0.00		0.00	0.00	0.00	66.15	66.15	0.01	0.00	66.39

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	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.15	4.15	0.00	0.00	4.15
Total	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.15	4.15	0.00	0.00	4.15

3.6 Building Construction - 2013

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	0.01	0.03	0.02	0.00		0.00	0.00		0.00	0.00	0.00	3.66	3.66	0.00	0.00	3.67
Total	0.01	0.03	0.02	0.00		0.00	0.00		0.00	0.00	0.00	3.66	3.66	0.00	0.00	3.67

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	0.20	0.20	0.00	0.00	0.20
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.53	0.00	0.00	0.53
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.73	0.00	0.00	0.73

3.6 Building Construction - 2013

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	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00	0.00	3.66	3.66	0.00	0.00	3.67
Total	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00	0.00	3.66	3.66	0.00	0.00	3.67

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	0.20	0.20	0.00	0.00	0.20
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.53	0.00	0.00	0.53
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.73	0.00	0.00	0.73

3.6 Building Construction - 2014

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	0.56	3.81	2.76	0.01		0.24	0.24		0.24	0.24	0.00	436.09	436.09	0.05	0.00	437.05
Total	0.56	3.81	2.76	0.01		0.24	0.24		0.24	0.24	0.00	436.09	436.09	0.05	0.00	437.05

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	0.01	0.15	0.10	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.00	23.88	23.88	0.00	0.00	23.89
Worker	0.04	0.04	0.40	0.00	0.08	0.00	0.08	0.00	0.00	0.01	0.00	62.12	62.12	0.00	0.00	62.19
Total	0.05	0.19	0.50	0.00	0.09	0.01	0.09	0.00	0.01	0.02	0.00	86.00	86.00	0.00	0.00	86.08

3.6 Building Construction - 2014

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	0.14	2.05	2.97	0.01		0.02	0.02		0.02	0.02	0.00	436.09	436.09	0.05	0.00	437.05
Total	0.14	2.05	2.97	0.01		0.02	0.02		0.02	0.02	0.00	436.09	436.09	0.05	0.00	437.05

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	0.01	0.15	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.00	23.88	23.88	0.00	0.00	23.89
Worker	0.04	0.04	0.40	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.00	62.12	62.12	0.00	0.00	62.19
Total	0.05	0.19	0.50	0.00	0.01	0.01	0.02	0.00	0.01	0.02	0.00	86.00	86.00	0.00	0.00	86.08

3.7 Architectural Coating - 2014

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	0.27					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	0.03	0.02	0.00		0.00	0.00		0.00	0.00	0.00	2.93	2.93	0.00	0.00	0.00	2.94
Total	0.28	0.03	0.02	0.00		0.00	0.00		0.00	0.00	0.00	2.93	2.93	0.00	0.00	0.00	2.94

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	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	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	1.25	1.25	0.00	0.00	0.00	1.25
Total	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	1.25	0.00	0.00	0.00	1.25

3.7 Architectural Coating - 2014

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	0.27					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.01	0.02	0.00		0.00	0.00		0.00	0.00	0.00	2.93	2.93	0.00	0.00	2.94	
Total	0.27	0.01	0.02	0.00		0.00	0.00		0.00	0.00	0.00	2.93	2.93	0.00	0.00	2.94	

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	1.25	1.25	0.00	0.00	1.25
Total	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	1.25	0.00	0.00	1.25

3.7 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Archit. Coating	0.44					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	0.05	0.04	0.00		0.00	0.00		0.00	0.00	0.00	4.72	4.72	0.00	0.00	0.00	4.73
Total	0.45	0.05	0.04	0.00		0.00	0.00		0.00	0.00	0.00	4.72	4.72	0.00	0.00	0.00	4.73

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	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	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	1.97	1.97	0.00	0.00	0.00	1.97
Total	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	1.97	0.00	0.00	0.00	1.97

3.7 Architectural Coating - 2015

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	0.44					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.02	0.03	0.00		0.00	0.00		0.00	0.00	0.00	4.72	4.72	0.00	0.00	0.00	4.73
Total	0.44	0.02	0.03	0.00		0.00	0.00		0.00	0.00	0.00	4.72	4.72	0.00	0.00	0.00	4.73

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	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	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	1.97	1.97	0.00	0.00	0.00	1.97
Total	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	1.97	0.00	0.00	0.00	1.97

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	0.49	1.22	4.81	0.01	0.86	0.06	0.92	0.03	0.06	0.09	0.00	784.54	784.54	0.03	0.00	785.18
Unmitigated	0.49	1.22	4.81	0.01	0.86	0.06	0.92	0.03	0.06	0.09	0.00	784.54	784.54	0.03	0.00	785.18
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	480.00	480.00	480.00	1,598,676	1,598,676
Parking Lot	0.00	0.00	0.00		
Total	480.00	480.00	480.00	1,598,676	1,598,676

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
Condo/Townhouse	12.70	7.00	9.50	40.20	19.20	40.60
Parking Lot	8.90	13.30	7.40	0.00	0.00	0.00

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	73.89	73.89	0.00	0.00	74.35
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	73.89	73.89	0.00	0.00	74.35
NaturalGas Mitigated	0.01	0.07	0.03	0.00		0.00	0.01		0.00	0.01	0.00	82.03	82.03	0.00	0.00	82.53
NaturalGas Unmitigated	0.01	0.07	0.03	0.00		0.00	0.01		0.00	0.01	0.00	82.03	82.03	0.00	0.00	82.53
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					
Condo/Townhouse	1.53728e+006	0.01	0.07	0.03	0.00		0.00	0.01		0.00	0.01	0.00	82.03	82.03	0.00	0.00	82.53
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
Total		0.01	0.07	0.03	0.00		0.00	0.01		0.00	0.01	0.00	82.03	82.03	0.00	0.00	82.53

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					
Condo/Townhouse	1.53728e+006	0.01	0.07	0.03	0.00		0.00	0.01		0.00	0.01	0.00	82.03	82.03	0.00	0.00	82.53
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
Total		0.01	0.07	0.03	0.00		0.00	0.01		0.00	0.01	0.00	82.03	82.03	0.00	0.00	82.53

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			
Condo/Townhouse	254023					73.89	0.00	0.00	74.35
Parking Lot	0					0.00	0.00	0.00	0.00
Total						73.89	0.00	0.00	74.35

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Condo/Townhouse	254023					73.89	0.00	0.00	74.35
Parking Lot	0					0.00	0.00	0.00	0.00
Total						73.89	0.00	0.00	74.35

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive 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	0.67	0.01	0.93	0.00		0.00	0.01		0.00	0.01	0.00	40.39	40.39	0.00	0.00	40.66
Unmitigated	0.87	0.02	1.31	0.00		0.00	0.06		0.00	0.06	6.37	38.23	44.61	0.02	0.00	45.32
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	0.07					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.57					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.20	0.00	0.38	0.00		0.00	0.06		0.00	0.06	6.37	36.74	43.11	0.02	0.00	43.80
Landscaping	0.03	0.01	0.93	0.00		0.00	0.00		0.00	0.00	0.00	1.49	1.49	0.00	0.00	1.53
Total	0.87	0.01	1.31	0.00		0.00	0.06		0.00	0.06	6.37	38.23	44.60	0.02	0.00	45.33

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.07					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.57					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	38.90	38.90	0.00	0.00	39.14
Landscaping	0.03	0.01	0.93	0.00		0.00	0.00		0.00	0.00	0.00	1.49	1.49	0.00	0.00	1.53
Total	0.67	0.01	0.93	0.00		0.00	0.00		0.00	0.00	0.00	40.39	40.39	0.00	0.00	40.67

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

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					19.84	0.10	0.00	22.71
Unmitigated					22.81	0.12	0.00	26.38
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			
Condo/Townhouse	3.90924 / 2.46452					22.81	0.12	0.00	26.38
Parking Lot	0 / 0					0.00	0.00	0.00	0.00
Total						22.81	0.12	0.00	26.38

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Condo/Townhouse	3.12739 / 2.46452					19.84	0.10	0.00	22.71
Parking Lot	0 / 0					0.00	0.00	0.00	0.00
Total						19.84	0.10	0.00	22.71

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					2.80	0.17	0.00	6.28
Unmitigated					5.60	0.33	0.00	12.56
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			
Condo/Townhouse	27.6					5.60	0.33	0.00	12.56
Parking Lot	0					0.00	0.00	0.00	0.00
Total						5.60	0.33	0.00	12.56

8.2 Waste by Land Use

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Condo/Townhouse	13.8					2.80	0.17	0.00	6.28
Parking Lot	0					0.00	0.00	0.00	0.00
Total						2.80	0.17	0.00	6.28

9.0 Vegetation

Crestridge Senior Housing
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Parking Lot	31	Space
Condo/Townhouse	60	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Utility Company	Southern California Edison
Climate Zone	8	Precipitation Freq (Days)	33		

1.3 User Entered Comments

Project Characteristics -
 Land Use - 9.76 lot acreage
 Construction Phase - No existing structures - No Demo
 Schedule based on RGP Estimated Schedule
 Architectural Coating to be simulataneous with end of building construction
 Trips and VMT - Landfill in Palos Verdes - Chandlers - 5.3 miles from site
 Construction Trips based on LLG Study

On-road Fugitive Dust - Mitigation to Tarp all Trucks - 91% (SCAQMD, 2007: Table XI-A: Mitigation Measure Examples: Fugitive Dust from Construction and Demo)

Demolition -

Grading - 145,000 cubic yards of cut / 2,000 cubic yards of fill -

Vehicle Trips - 8.0 - LA County condo rates

Energy Use -

Land Use Change - 0

Sequestration -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy 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					
2013	12.54	105.68	67.40	0.13	183.05	5.10	188.15	10.01	5.10	14.54	0.00	13,599.42	0.00	0.97	0.00	13,619.84
2014	24.15	33.58	27.44	0.05	0.81	2.09	2.91	0.03	2.09	2.13	0.00	4,869.22	0.00	0.46	0.00	4,878.96
2015	24.10	2.62	2.56	0.00	0.15	0.23	0.38	0.01	0.23	0.23	0.00	405.06	0.00	0.04	0.00	405.97
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					
2013	7.47	76.20	310.75	0.13	18.48	2.51	20.99	3.75	2.51	4.56	0.00	13,599.42	0.00	0.97	0.00	13,619.84
2014	23.77	18.79	29.18	0.05	0.10	0.25	0.35	0.03	0.25	0.28	0.00	4,869.22	0.00	0.46	0.00	4,878.96
2015	23.77	1.29	2.49	0.00	0.02	0.01	0.03	0.01	0.01	0.02	0.00	405.06	0.00	0.04	0.00	405.97
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	10.05	0.35	24.96	0.05		0.00	3.20		0.00	3.20	423.40	1,089.02		1.69	0.03	1,555.85
Energy	0.05	0.39	0.17	0.00		0.00	0.03		0.00	0.03		495.50		0.01	0.01	498.51
Mobile	2.69	6.61	26.69	0.05	5.29	0.31	5.60	0.18	0.31	0.49		4,961.08		0.18		4,964.87
Total	12.79	7.35	51.82	0.10	5.29	0.31	8.83	0.18	0.31	3.72	423.40	6,545.60		1.88	0.04	7,019.23

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	3.77	0.06	5.11	0.00		0.00	0.10		0.00	0.10	0.00	1,152.55		0.03	0.02	1,159.71
Energy	0.05	0.39	0.17	0.00		0.00	0.03		0.00	0.03		495.50		0.01	0.01	498.51
Mobile	2.69	6.61	26.69	0.05	5.29	0.31	5.60	0.18	0.31	0.49		4,961.08		0.18		4,964.87
Total	6.51	7.06	31.97	0.05	5.29	0.31	5.73	0.18	0.31	0.62	0.00	6,609.13		0.22	0.03	6,623.09

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Clearing and Grubbing - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.13	0.00	18.13	9.94	0.00	9.94						0.00
Off-Road	9.90	79.99	45.35	0.07		3.93	3.93		3.93	3.93		7,997.69		0.89		8,016.38
Total	9.90	79.99	45.35	0.07	18.13	3.93	22.06	9.94	3.93	13.87		7,997.69		0.89		8,016.38

3.2 Clearing and Grubbing - 2013

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.53	14.21	8.91	0.02	11.09	0.59	11.68	0.07	0.59	0.66		2,058.29		0.07		2,059.86
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	0.07	0.07	0.78	0.00	0.15	0.01	0.16	0.01	0.01	0.01		128.48		0.01		128.65
Total	1.60	14.28	9.69	0.02	11.24	0.60	11.84	0.08	0.60	0.67		2,186.77		0.08		2,188.51

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					6.72	0.00	6.72	3.68	0.00	3.68						0.00
Off-Road	1.97	24.02	301.06	0.07		0.21	0.21		0.21	0.21	0.00	7,997.69		0.89		8,016.38
Total	1.97	24.02	301.06	0.07	6.72	0.21	6.93	3.68	0.21	3.89	0.00	7,997.69		0.89		8,016.38

3.2 Clearing and Grubbing - 2013

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.53	14.21	8.91	0.02	1.06	0.59	1.65	0.07	0.59	0.66		2,058.29		0.07		2,059.86
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	0.07	0.07	0.78	0.00	0.02	0.01	0.02	0.01	0.01	0.01		128.48		0.01		128.65
Total	1.60	14.28	9.69	0.02	1.08	0.60	1.67	0.08	0.60	0.67		2,186.77		0.08		2,188.51

3.3 Rough Grading - 2013

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					6.29	0.00	6.29	3.33	0.00	3.33						0.00
Off-Road	6.36	48.81	31.00	0.05		2.73	2.73		2.73	2.73		5,240.06		0.57		5,252.04
Total	6.36	48.81	31.00	0.05	6.29	2.73	9.02	3.33	2.73	6.06		5,240.06		0.57		5,252.04

3.3 Rough Grading - 2013

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	6.11	56.81	35.63	0.08	176.61	2.36	178.97	0.27	2.36	2.63		8,230.87		0.30		8,237.14
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	0.07	0.07	0.78	0.00	0.15	0.01	0.16	0.01	0.01	0.01		128.48		0.01		128.65
Total	6.18	56.88	36.41	0.08	176.76	2.37	179.13	0.28	2.37	2.64		8,359.35		0.31		8,365.79

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.33	0.00	2.33	1.24	0.00	1.24						0.00
Off-Road	1.29	19.33	117.11	0.05		0.14	0.14		0.14	0.14	0.00	5,240.06		0.57		5,252.04
Total	1.29	19.33	117.11	0.05	2.33	0.14	2.47	1.24	0.14	1.38	0.00	5,240.06		0.57		5,252.04

3.3 Rough Grading - 2013

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	6.11	56.81	35.63	0.08	16.14	2.36	18.50	0.27	2.36	2.63		8,230.87		0.30		8,237.14
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	0.07	0.07	0.78	0.00	0.02	0.01	0.02	0.01	0.01	0.01		128.48		0.01		128.65
Total	6.18	56.88	36.41	0.08	16.16	2.37	18.52	0.28	2.37	2.64		8,359.35		0.31		8,365.79

3.4 Precise Grading - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.12	0.00	18.12	9.94	0.00	9.94						0.00
Off-Road	9.90	79.99	45.35	0.07		3.93	3.93		3.93	3.93		7,997.69		0.89		8,016.38
Total	9.90	79.99	45.35	0.07	18.12	3.93	22.05	9.94	3.93	13.87		7,997.69		0.89		8,016.38

3.4 Precise Grading - 2013

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.15	10.65	6.68	0.01	33.11	0.44	33.55	0.05	0.44	0.49		1,543.14		0.06		1,544.32
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	0.07	0.07	0.78	0.00	0.15	0.01	0.16	0.01	0.01	0.01		128.48		0.01		128.65
Total	1.22	10.72	7.46	0.01	33.26	0.45	33.71	0.06	0.45	0.50		1,671.62		0.07		1,672.97

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					6.71	0.00	6.71	3.68	0.00	3.68						0.00
Off-Road	1.97	24.02	301.06	0.07		0.21	0.21		0.21	0.21	0.00	7,997.69		0.89		8,016.38
Total	1.97	24.02	301.06	0.07	6.71	0.21	6.92	3.68	0.21	3.89	0.00	7,997.69		0.89		8,016.38

3.4 Precise Grading - 2013

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.15	10.65	6.68	0.01	3.03	0.44	3.47	0.05	0.44	0.49		1,543.14		0.06		1,544.32
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	0.07	0.07	0.78	0.00	0.02	0.01	0.02	0.01	0.01	0.01		128.48		0.01		128.65
Total	1.22	10.72	7.46	0.01	3.05	0.45	3.49	0.06	0.45	0.50		1,671.62		0.07		1,672.97

3.5 Foundation and Base Pavement - 2013

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	5.53	33.81	20.89	0.03		2.93	2.93		2.93	2.93		2,917.64		0.50		2,928.05
Paving	0.01					0.00	0.00		0.00	0.00						0.00
Total	5.54	33.81	20.89	0.03		2.93	2.93		2.93	2.93		2,917.64		0.50		2,928.05

3.5 Foundation and Base Pavement - 2013

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	0.10	0.10	1.17	0.00	0.23	0.01	0.24	0.01	0.01	0.02		192.73		0.01		192.97
Total	0.10	0.10	1.17	0.00	0.23	0.01	0.24	0.01	0.01	0.02		192.73		0.01		192.97

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.72	12.83	19.00	0.03		0.08	0.08		0.08	0.08	0.00	2,917.64		0.50		2,928.05
Paving	0.01					0.00	0.00		0.00	0.00						0.00
Total	0.73	12.83	19.00	0.03		0.08	0.08		0.08	0.08	0.00	2,917.64		0.50		2,928.05

3.5 Foundation and Base Pavement - 2013

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	0.10	0.10	1.17	0.00	0.03	0.01	0.04	0.01	0.01	0.02		192.73		0.01		192.97
Total	0.10	0.10	1.17	0.00	0.03	0.01	0.04	0.01	0.01	0.02		192.73		0.01		192.97

3.6 Building Construction - 2013

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	5.17	34.66	23.45	0.04		2.28	2.28		2.28	2.28		4,040.62		0.46		4,050.31
Total	5.17	34.66	23.45	0.04		2.28	2.28		2.28	2.28		4,040.62		0.46		4,050.31

3.6 Building Construction - 2013

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	0.13	1.36	0.88	0.00	0.07	0.05	0.12	0.01	0.05	0.05		221.40		0.01		221.54
Worker	0.32	0.32	3.74	0.01	0.74	0.03	0.76	0.03	0.03	0.05		616.73		0.04		617.50
Total	0.45	1.68	4.62	0.01	0.81	0.08	0.88	0.04	0.08	0.10		838.13		0.05		839.04

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	lb/day										lb/day					
Off-Road	1.20	17.27	24.94	0.04		0.18	0.18		0.18	0.18	0.00	4,040.62		0.46		4,050.31
Total	1.20	17.27	24.94	0.04		0.18	0.18		0.18	0.18	0.00	4,040.62		0.46		4,050.31

3.6 Building Construction - 2013

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	0.13	1.36	0.88	0.00	0.01	0.05	0.06	0.01	0.05	0.05		221.40		0.01		221.54
Worker	0.32	0.32	3.74	0.01	0.09	0.03	0.12	0.03	0.03	0.05		616.73		0.04		617.50
Total	0.45	1.68	4.62	0.01	0.10	0.08	0.18	0.04	0.08	0.10		838.13		0.05		839.04

3.6 Building Construction - 2014

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	4.74	32.06	23.20	0.04		2.02	2.02		2.02	2.02		4,040.61		0.42		4,049.51
Total	4.74	32.06	23.20	0.04		2.02	2.02		2.02	2.02		4,040.61		0.42		4,049.51

3.6 Building Construction - 2014

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	0.12	1.23	0.80	0.00	0.07	0.04	0.12	0.01	0.04	0.05		221.84		0.01		221.97
Worker	0.30	0.29	3.45	0.01	0.74	0.03	0.76	0.03	0.03	0.05		606.76		0.03		607.49
Total	0.42	1.52	4.25	0.01	0.81	0.07	0.88	0.04	0.07	0.10		828.60		0.04		829.46

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.20	17.27	24.94	0.04		0.18	0.18		0.18	0.18	0.00	4,040.61		0.42		4,049.51
Total	1.20	17.27	24.94	0.04		0.18	0.18		0.18	0.18	0.00	4,040.61		0.42		4,049.51

3.6 Building Construction - 2014

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	0.12	1.23	0.80	0.00	0.01	0.04	0.06	0.01	0.04	0.05		221.84		0.01		221.97
Worker	0.30	0.29	3.45	0.01	0.09	0.03	0.12	0.03	0.03	0.05		606.76		0.03		607.49
Total	0.42	1.52	4.25	0.01	0.10	0.07	0.18	0.04	0.07	0.10		828.60		0.04		829.46

3.7 Architectural Coating - 2014

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	23.64					0.00	0.00		0.00	0.00						0.00
Off-Road	0.45	2.77	1.92	0.00		0.24	0.24		0.24	0.24		281.19		0.04		282.03
Total	24.09	2.77	1.92	0.00		0.24	0.24		0.24	0.24		281.19		0.04		282.03

3.7 Architectural Coating - 2014

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	0.06	0.06	0.72	0.00	0.15	0.01	0.16	0.01	0.01	0.01		126.41		0.01		126.56
Total	0.06	0.06	0.72	0.00	0.15	0.01	0.16	0.01	0.01	0.01		126.41		0.01		126.56

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	23.64					0.00	0.00		0.00	0.00						0.00
Off-Road	0.07	1.24	1.83	0.00		0.01	0.01		0.01	0.01	0.00	281.19		0.04		282.03
Total	23.71	1.24	1.83	0.00		0.01	0.01		0.01	0.01	0.00	281.19		0.04		282.03

3.7 Architectural Coating - 2014

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	0.06	0.06	0.72	0.00	0.02	0.01	0.02	0.01	0.01	0.01		126.41		0.01		126.56
Total	0.06	0.06	0.72	0.00	0.02	0.01	0.02	0.01	0.01	0.01		126.41		0.01		126.56

3.7 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.64					0.00	0.00		0.00	0.00						0.00
Off-Road	0.41	2.57	1.90	0.00		0.22	0.22		0.22	0.22		281.19		0.04		281.96
Total	24.05	2.57	1.90	0.00		0.22	0.22		0.22	0.22		281.19		0.04		281.96

3.7 Architectural Coating - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	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	0.06	0.06	0.66	0.00	0.15	0.01	0.16	0.01	0.01	0.01		123.87		0.01		124.01
Total	0.06	0.06	0.66	0.00	0.15	0.01	0.16	0.01	0.01	0.01		123.87		0.01		124.01

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	23.64					0.00	0.00		0.00	0.00						0.00
Off-Road	0.07	1.24	1.83	0.00		0.01	0.01		0.01	0.01	0.00	281.19		0.04		281.96
Total	23.71	1.24	1.83	0.00		0.01	0.01		0.01	0.01	0.00	281.19		0.04		281.96

3.7 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	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	0.06	0.06	0.66	0.00	0.02	0.01	0.02	0.01	0.01	0.01		123.87		0.01		124.01
Total	0.06	0.06	0.66	0.00	0.02	0.01	0.02	0.01	0.01	0.01		123.87		0.01		124.01

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	2.69	6.61	26.69	0.05	5.29	0.31	5.60	0.18	0.31	0.49		4,961.08		0.18		4,964.87
Unmitigated	2.69	6.61	26.69	0.05	5.29	0.31	5.60	0.18	0.31	0.49		4,961.08		0.18		4,964.87
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	480.00	480.00	480.00	1,598,676	1,598,676
Parking Lot	0.00	0.00	0.00		
Total	480.00	480.00	480.00	1,598,676	1,598,676

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
Condo/Townhouse	12.70	7.00	9.50	40.20	19.20	40.60
Parking Lot	8.90	13.30	7.40	0.00	0.00	0.00

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	0.05	0.39	0.17	0.00		0.00	0.03		0.00	0.03		495.50		0.01	0.01	498.51
NaturalGas Unmitigated	0.05	0.39	0.17	0.00		0.00	0.03		0.00	0.03		495.50		0.01	0.01	498.51
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					
Condo/Townhouse	4211.72	0.05	0.39	0.17	0.00		0.00	0.03		0.00	0.03		495.50		0.01	0.01	498.51
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
Total		0.05	0.39	0.17	0.00		0.00	0.03		0.00	0.03		495.50		0.01	0.01	498.51

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Condo/Townhouse	4.21172	0.05	0.39	0.17	0.00		0.00	0.03		0.00	0.03		495.50		0.01	0.01	498.51
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
Total		0.05	0.39	0.17	0.00		0.00	0.03		0.00	0.03		495.50		0.01	0.01	498.51

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.77	0.06	5.11	0.00		0.00	0.10		0.00	0.10	0.00	1,152.55		0.03	0.02	1,159.71
Unmitigated	10.05	0.35	24.96	0.05		0.00	3.20		0.00	3.20	423.40	1,089.02		1.69	0.03	1,555.85
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	0.39					0.00	0.00		0.00	0.00						0.00
Consumer Products	3.11					0.00	0.00		0.00	0.00						0.00
Hearth	6.39	0.29	19.86	0.05		0.00	3.17		0.00	3.17	423.40	1,080.00		1.68	0.03	1,546.63
Landscaping	0.16	0.06	5.10	0.00		0.00	0.03		0.00	0.03		9.02		0.01		9.22
Total	10.05	0.35	24.96	0.05		0.00	3.20		0.00	3.20	423.40	1,089.02		1.69	0.03	1,555.85

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	0.39					0.00	0.00		0.00	0.00						0.00
Consumer Products	3.11					0.00	0.00		0.00	0.00						0.00
Hearth	0.10	0.00	0.01	0.00		0.00	0.07		0.00	0.07	0.00	1,143.53		0.02	0.02	1,150.49
Landscaping	0.16	0.06	5.10	0.00		0.00	0.03		0.00	0.03		9.02		0.01		9.22
Total	3.76	0.06	5.11	0.00		0.00	0.10		0.00	0.10	0.00	1,152.55		0.03	0.02	1,159.71

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Vegetation

Crestridge Senior Housing
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Parking Lot	31	Space
Condo/Townhouse	60	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Utility Company	Southern California Edison
Climate Zone	8	Precipitation Freq (Days)	33		

1.3 User Entered Comments

Project Characteristics -
 Land Use - 9.76 lot acreage
 Construction Phase - No existing structures - No Demo
 Schedule based on RGP Estimated Schedule
 Architectural Coating to being simulataneous with end of building construction
 Trips and VMT - Landfill in Palos Verdes - Chandlers - 5.3 miles from site
 Construction Trips based on LLG Study

On-road Fugitive Dust -

Demolition -

Grading - 145,000 cubic yards of cut / 2,000 cubic yards of fill -

Vehicle Trips - 8.0 - LA County condo rates

Energy Use -

Land Use Change - 0

Sequestration -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy 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					
2013	12.79	108.21	71.65	0.13	183.05	5.14	188.19	10.01	5.14	14.55	0.00	13,519.95	0.00	0.98	0.00	13,540.43
2014	24.15	33.69	27.36	0.05	0.81	2.10	2.91	0.03	2.10	2.13	0.00	4,822.96	0.00	0.46	0.00	4,832.68
2015	24.11	2.63	2.52	0.00	0.15	0.23	0.38	0.01	0.23	0.23	0.00	395.94	0.00	0.04	0.00	396.84
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					
2013	7.72	78.73	311.78	0.13	18.48	2.54	21.03	3.75	2.54	4.57	0.00	13,519.95	0.00	0.98	0.00	13,540.43
2014	23.77	18.89	29.10	0.05	0.10	0.25	0.36	0.03	0.25	0.29	0.00	4,822.96	0.00	0.46	0.00	4,832.68
2015	23.77	1.30	2.45	0.00	0.02	0.01	0.03	0.01	0.01	0.02	0.00	395.94	0.00	0.04	0.00	396.84
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	10.05	0.35	24.96	0.05		0.00	3.20		0.00	3.20	423.40	1,089.02		1.69	0.03	1,555.85
Energy	0.05	0.39	0.17	0.00		0.00	0.03		0.00	0.03		495.50		0.01	0.01	498.51
Mobile	2.85	7.15	26.16	0.05	5.29	0.31	5.60	0.18	0.31	0.49		4,662.71		0.18		4,666.57
Total	12.95	7.89	51.29	0.10	5.29	0.31	8.83	0.18	0.31	3.72	423.40	6,247.23		1.88	0.04	6,720.93

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	3.77	0.06	5.11	0.00		0.00	0.10		0.00	0.10	0.00	1,152.55		0.03	0.02	1,159.71
Energy	0.05	0.39	0.17	0.00		0.00	0.03		0.00	0.03		495.50		0.01	0.01	498.51
Mobile	2.85	7.15	26.16	0.05	5.29	0.31	5.60	0.18	0.31	0.49		4,662.71		0.18		4,666.57
Total	6.67	7.60	31.44	0.05	5.29	0.31	5.73	0.18	0.31	0.62	0.00	6,310.76		0.22	0.03	6,324.79

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Clearing and Grubbing - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.13	0.00	18.13	9.94	0.00	9.94						0.00
Off-Road	9.90	79.99	45.35	0.07		3.93	3.93		3.93	3.93		7,997.69		0.89		8,016.38
Total	9.90	79.99	45.35	0.07	18.13	3.93	22.06	9.94	3.93	13.87		7,997.69		0.89		8,016.38

3.2 Clearing and Grubbing - 2013

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.59	14.84	9.98	0.02	11.09	0.60	11.69	0.07	0.60	0.67		2,040.78		0.08		2,042.42
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	0.07	0.08	0.74	0.00	0.15	0.01	0.16	0.01	0.01	0.01		119.03		0.01		119.19
Total	1.66	14.92	10.72	0.02	11.24	0.61	11.85	0.08	0.61	0.68		2,159.81		0.09		2,161.61

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					6.72	0.00	6.72	3.68	0.00	3.68						0.00
Off-Road	1.97	24.02	301.06	0.07		0.21	0.21		0.21	0.21	0.00	7,997.69		0.89		8,016.38
Total	1.97	24.02	301.06	0.07	6.72	0.21	6.93	3.68	0.21	3.89	0.00	7,997.69		0.89		8,016.38

3.2 Clearing and Grubbing - 2013

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.59	14.84	9.98	0.02	1.06	0.60	1.66	0.07	0.60	0.67		2,040.78		0.08		2,042.42
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	0.07	0.08	0.74	0.00	0.02	0.01	0.02	0.01	0.01	0.01		119.03		0.01		119.19
Total	1.66	14.92	10.72	0.02	1.08	0.61	1.68	0.08	0.61	0.68		2,159.81		0.09		2,161.61

3.3 Rough Grading - 2013

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					6.29	0.00	6.29	3.33	0.00	3.33						0.00
Off-Road	6.36	48.81	31.00	0.05		2.73	2.73		2.73	2.73		5,240.06		0.57		5,252.04
Total	6.36	48.81	31.00	0.05	6.29	2.73	9.02	3.33	2.73	6.06		5,240.06		0.57		5,252.04

3.3 Rough Grading - 2013

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	6.36	59.33	39.91	0.08	176.61	2.40	179.01	0.27	2.40	2.66		8,160.86		0.31		8,167.40
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	0.07	0.08	0.74	0.00	0.15	0.01	0.16	0.01	0.01	0.01		119.03		0.01		119.19
Total	6.43	59.41	40.65	0.08	176.76	2.41	179.17	0.28	2.41	2.67		8,279.89		0.32		8,286.59

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.33	0.00	2.33	1.24	0.00	1.24						0.00
Off-Road	1.29	19.33	117.11	0.05		0.14	0.14		0.14	0.14	0.00	5,240.06		0.57		5,252.04
Total	1.29	19.33	117.11	0.05	2.33	0.14	2.47	1.24	0.14	1.38	0.00	5,240.06		0.57		5,252.04

3.3 Rough Grading - 2013

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	6.36	59.33	39.91	0.08	16.14	2.40	18.54	0.27	2.40	2.66		8,160.86		0.31		8,167.40
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	0.07	0.08	0.74	0.00	0.02	0.01	0.02	0.01	0.01	0.01		119.03		0.01		119.19
Total	6.43	59.41	40.65	0.08	16.16	2.41	18.56	0.28	2.41	2.67		8,279.89		0.32		8,286.59

3.4 Precise Grading - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.12	0.00	18.12	9.94	0.00	9.94						0.00
Off-Road	9.90	79.99	45.35	0.07		3.93	3.93		3.93	3.93		7,997.69		0.89		8,016.38
Total	9.90	79.99	45.35	0.07	18.12	3.93	22.05	9.94	3.93	13.87		7,997.69		0.89		8,016.38

3.4 Precise Grading - 2013

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.19	11.12	7.48	0.01	33.11	0.45	33.56	0.05	0.45	0.50		1,530.02		0.06		1,531.24
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	0.07	0.08	0.74	0.00	0.15	0.01	0.16	0.01	0.01	0.01		119.03		0.01		119.19
Total	1.26	11.20	8.22	0.01	33.26	0.46	33.72	0.06	0.46	0.51		1,649.05		0.07		1,650.43

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	lb/day										lb/day					
Fugitive Dust					6.71	0.00	6.71	3.68	0.00	3.68						0.00
Off-Road	1.97	24.02	301.06	0.07		0.21	0.21		0.21	0.21	0.00	7,997.69		0.89		8,016.38
Total	1.97	24.02	301.06	0.07	6.71	0.21	6.92	3.68	0.21	3.89	0.00	7,997.69		0.89		8,016.38

3.4 Precise Grading - 2013

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.19	11.12	7.48	0.01	3.03	0.45	3.48	0.05	0.45	0.50		1,530.02		0.06		1,531.24
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	0.07	0.08	0.74	0.00	0.02	0.01	0.02	0.01	0.01	0.01		119.03		0.01		119.19
Total	1.26	11.20	8.22	0.01	3.05	0.46	3.50	0.06	0.46	0.51		1,649.05		0.07		1,650.43

3.5 Foundation and Base Pavement - 2013

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	5.53	33.81	20.89	0.03		2.93	2.93		2.93	2.93		2,917.64		0.50		2,928.05
Paving	0.01					0.00	0.00		0.00	0.00						0.00
Total	5.54	33.81	20.89	0.03		2.93	2.93		2.93	2.93		2,917.64		0.50		2,928.05

3.5 Foundation and Base Pavement - 2013

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	0.11	0.12	1.11	0.00	0.23	0.01	0.24	0.01	0.01	0.02		178.55		0.01		178.78
Total	0.11	0.12	1.11	0.00	0.23	0.01	0.24	0.01	0.01	0.02		178.55		0.01		178.78

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.72	12.83	19.00	0.03		0.08	0.08		0.08	0.08	0.00	2,917.64		0.50		2,928.05
Paving	0.01					0.00	0.00		0.00	0.00						0.00
Total	0.73	12.83	19.00	0.03		0.08	0.08		0.08	0.08	0.00	2,917.64		0.50		2,928.05

3.5 Foundation and Base Pavement - 2013

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	0.11	0.12	1.11	0.00	0.03	0.01	0.04	0.01	0.01	0.02		178.55		0.01		178.78
Total	0.11	0.12	1.11	0.00	0.03	0.01	0.04	0.01	0.01	0.02		178.55		0.01		178.78

3.6 Building Construction - 2013

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	5.17	34.66	23.45	0.04		2.28	2.28		2.28	2.28		4,040.62		0.46		4,050.31
Total	5.17	34.66	23.45	0.04		2.28	2.28		2.28	2.28		4,040.62		0.46		4,050.31

3.6 Building Construction - 2013

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	0.14	1.42	0.99	0.00	0.07	0.05	0.12	0.01	0.05	0.06		219.84		0.01		219.98
Worker	0.35	0.37	3.54	0.01	0.74	0.03	0.76	0.03	0.03	0.05		571.35		0.04		572.10
Total	0.49	1.79	4.53	0.01	0.81	0.08	0.88	0.04	0.08	0.11		791.19		0.05		792.08

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.20	17.27	24.94	0.04		0.18	0.18		0.18	0.18	0.00	4,040.62		0.46		4,050.31
Total	1.20	17.27	24.94	0.04		0.18	0.18		0.18	0.18	0.00	4,040.62		0.46		4,050.31

3.6 Building Construction - 2013

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	0.14	1.42	0.99	0.00	0.01	0.05	0.06	0.01	0.05	0.06		219.84		0.01		219.98
Worker	0.35	0.37	3.54	0.01	0.09	0.03	0.12	0.03	0.03	0.05		571.35		0.04		572.10
Total	0.49	1.79	4.53	0.01	0.10	0.08	0.18	0.04	0.08	0.11		791.19		0.05		792.08

3.6 Building Construction - 2014

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	4.74	32.06	23.20	0.04		2.02	2.02		2.02	2.02		4,040.61		0.42		4,049.51
Total	4.74	32.06	23.20	0.04		2.02	2.02		2.02	2.02		4,040.61		0.42		4,049.51

3.6 Building Construction - 2014

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	0.12	1.28	0.90	0.00	0.07	0.04	0.12	0.01	0.04	0.05		220.23		0.01		220.36
Worker	0.33	0.34	3.26	0.01	0.74	0.03	0.76	0.03	0.03	0.05		562.12		0.03		562.81
Total	0.45	1.62	4.16	0.01	0.81	0.07	0.88	0.04	0.07	0.10		782.35		0.04		783.17

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					
Off-Road	1.20	17.27	24.94	0.04		0.18	0.18		0.18	0.18	0.00	4,040.61		0.42		4,049.51
Total	1.20	17.27	24.94	0.04		0.18	0.18		0.18	0.18	0.00	4,040.61		0.42		4,049.51

3.6 Building Construction - 2014

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	0.12	1.28	0.90	0.00	0.01	0.04	0.06	0.01	0.04	0.05		220.23		0.01		220.36
Worker	0.33	0.34	3.26	0.01	0.09	0.03	0.12	0.03	0.03	0.05		562.12		0.03		562.81
Total	0.45	1.62	4.16	0.01	0.10	0.07	0.18	0.04	0.07	0.10		782.35		0.04		783.17

3.7 Architectural Coating - 2014

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	23.64					0.00	0.00		0.00	0.00						0.00
Off-Road	0.45	2.77	1.92	0.00		0.24	0.24		0.24	0.24		281.19		0.04		282.03
Total	24.09	2.77	1.92	0.00		0.24	0.24		0.24	0.24		281.19		0.04		282.03

3.7 Architectural Coating - 2014

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	0.07	0.07	0.68	0.00	0.15	0.01	0.16	0.01	0.01	0.01		117.11		0.01		117.25
Total	0.07	0.07	0.68	0.00	0.15	0.01	0.16	0.01	0.01	0.01		117.11		0.01		117.25

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	23.64					0.00	0.00		0.00	0.00						0.00
Off-Road	0.07	1.24	1.83	0.00		0.01	0.01		0.01	0.01	0.00	281.19		0.04		282.03
Total	23.71	1.24	1.83	0.00		0.01	0.01		0.01	0.01	0.00	281.19		0.04		282.03

3.7 Architectural Coating - 2014

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	0.07	0.07	0.68	0.00	0.02	0.01	0.02	0.01	0.01	0.01		117.11		0.01		117.25
Total	0.07	0.07	0.68	0.00	0.02	0.01	0.02	0.01	0.01	0.01		117.11		0.01		117.25

3.7 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.64					0.00	0.00		0.00	0.00						0.00
Off-Road	0.41	2.57	1.90	0.00		0.22	0.22		0.22	0.22		281.19		0.04		281.96
Total	24.05	2.57	1.90	0.00		0.22	0.22		0.22	0.22		281.19		0.04		281.96

3.7 Architectural Coating - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	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	0.06	0.06	0.62	0.00	0.15	0.01	0.16	0.01	0.01	0.01		114.75		0.01		114.88
Total	0.06	0.06	0.62	0.00	0.15	0.01	0.16	0.01	0.01	0.01		114.75		0.01		114.88

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	23.64					0.00	0.00		0.00	0.00						0.00
Off-Road	0.07	1.24	1.83	0.00		0.01	0.01		0.01	0.01	0.00	281.19		0.04		281.96
Total	23.71	1.24	1.83	0.00		0.01	0.01		0.01	0.01	0.00	281.19		0.04		281.96

3.7 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	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	0.06	0.06	0.62	0.00	0.02	0.01	0.02	0.01	0.01	0.01		114.75		0.01		114.88
Total	0.06	0.06	0.62	0.00	0.02	0.01	0.02	0.01	0.01	0.01		114.75		0.01		114.88

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	2.85	7.15	26.16	0.05	5.29	0.31	5.60	0.18	0.31	0.49		4,662.71		0.18		4,666.57
Unmitigated	2.85	7.15	26.16	0.05	5.29	0.31	5.60	0.18	0.31	0.49		4,662.71		0.18		4,666.57
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	480.00	480.00	480.00	1,598,676	1,598,676
Parking Lot	0.00	0.00	0.00		
Total	480.00	480.00	480.00	1,598,676	1,598,676

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
Condo/Townhouse	12.70	7.00	9.50	40.20	19.20	40.60
Parking Lot	8.90	13.30	7.40	0.00	0.00	0.00

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	0.05	0.39	0.17	0.00		0.00	0.03		0.00	0.03		495.50		0.01	0.01	498.51
NaturalGas Unmitigated	0.05	0.39	0.17	0.00		0.00	0.03		0.00	0.03		495.50		0.01	0.01	498.51
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					
Condo/Townhouse	4211.72	0.05	0.39	0.17	0.00		0.00	0.03		0.00	0.03		495.50		0.01	0.01	498.51
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
Total		0.05	0.39	0.17	0.00		0.00	0.03		0.00	0.03		495.50		0.01	0.01	498.51

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Condo/Townhouse	4.21172	0.05	0.39	0.17	0.00		0.00	0.03		0.00	0.03		495.50		0.01	0.01	498.51
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
Total		0.05	0.39	0.17	0.00		0.00	0.03		0.00	0.03		495.50		0.01	0.01	498.51

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.77	0.06	5.11	0.00		0.00	0.10		0.00	0.10	0.00	1,152.55		0.03	0.02	1,159.71
Unmitigated	10.05	0.35	24.96	0.05		0.00	3.20		0.00	3.20	423.40	1,089.02		1.69	0.03	1,555.85
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	0.39					0.00	0.00		0.00	0.00							0.00
Consumer Products	3.11					0.00	0.00		0.00	0.00							0.00
Hearth	6.39	0.29	19.86	0.05		0.00	3.17		0.00	3.17	423.40	1,080.00		1.68	0.03		1,546.63
Landscaping	0.16	0.06	5.10	0.00		0.00	0.03		0.00	0.03		9.02		0.01			9.22
Total	10.05	0.35	24.96	0.05		0.00	3.20		0.00	3.20	423.40	1,089.02		1.69	0.03		1,555.85

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	0.39					0.00	0.00		0.00	0.00							0.00
Consumer Products	3.11					0.00	0.00		0.00	0.00							0.00
Hearth	0.10	0.00	0.01	0.00		0.00	0.07		0.00	0.07	0.00	1,143.53		0.02	0.02		1,150.49
Landscaping	0.16	0.06	5.10	0.00		0.00	0.03		0.00	0.03		9.02		0.01			9.22
Total	3.76	0.06	5.11	0.00		0.00	0.10		0.00	0.10	0.00	1,152.55		0.03	0.02		1,159.71

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Vegetation

Greenhouse Gas Emission Worksheet
N2O Mobile Emissions

Crestridge

From CalEEMod Vehicle Fleet Mix Output:

Annual VMT: 1,598,676

Vehicle Type	Percent Type	CH4 Emission Factor (g/mile)*	CH4 Emission (g/mile)**	N2O Emission Factor (g/mile)*	N2O Emission (g/mile)**
Light Auto	52.8%	0.04	0.02112	0.04	0.02112
Light Truck < 3750 lbs	7.0%	0.05	0.0035	0.06	0.0042
Light Truck 3751-5750 lbs	23.0%	0.05	0.0115	0.06	0.0138
Med Truck 5751-8500 lbs	9.0%	0.12	0.0108	0.2	0.018
Lite-Heavy Truck 8501-10,000 lbs	2.0%	0.12	0.0024	0.2	0.004
Lite-Heavy Truck 10,001-14,000 lbs	1.0%	0.09	0.0009	0.125	0.00125
Med-Heavy Truck 14,001-33,000 lbs	1.6%	0.06	0.00096	0.05	0.0008
Heavy-Heavy Truck 33,001-60,000 lbs	2.6%	0.06	0.00156	0.05	0.0013
Other Bus	0.1%	0.06	0.00006	0.05	0.00005
Urban Bus	0.2%	0.06	0.00012	0.05	0.0001
Motorcycle	0.4%	0.09	0.00036	0.01	0.00004
School Bus	0.1%	0.06	0.000048	0.05	0.00004
Motor Home	0.2%	0.09	0.00018	0.125	0.00025
Total	100.0%		0.053508		0.06495

Total Emissions (metric tons) =

Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g

Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)

CH4 21 GWP
 N2O 310 GWP
 1 ton (short, US) = 0.90718474 metric ton

Annual Mobile Emissions:

	Total Emissions	Total CO2e units
N2O Emissions:	0.1038 metric tons N2O	32 metric tons CO2e
Project Total:	32 metric tons CO2e	

References

- * from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile). in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009. Assume Model year 2000-present, gasoline fueled.
- ** Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
- *** From URBEMIS 2007 results for mobile sources