

APPENDIX B

AIR QUALITY AND GREENHOUSE GAS EMISSIONS MODEL OUTPUTS

La Mesa General Plan - Construction Emissions
San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	60	1000sqft
Industrial Park	7.26	1000sqft
Apartments Low Rise	126	Dwelling Unit
Single Family Housing	12	Dwelling Unit
Strip Mall	60	1000sqft

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.6 Utility Company San Diego Gas & Electric
 Climate Zone 13 Precipitation Freq (Days) 40

1.3 User Entered Comments

Project Characteristics -
 Construction Phase - Assumes construction phases overlap during the calendar year
 Land Use - Estimated annual construction

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Year	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2013	6.80	25.89	17.54	0.03	3.47	1.53	4.99	1.74	1.53	3.27	0.00	2,678.48	2,678.48	0.29	0.00	2,684.67
Total	6.80	25.89	17.54	0.03	3.47	1.53	4.99	1.74	1.53	3.27	0.00	2,678.48	2,678.48	0.29	0.00	2,684.67

Mitigated Construction

Year	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2013	6.80	25.89	17.54	0.03	1.74	1.53	3.26	0.79	1.53	2.32	0.00	2,678.48	2,678.48	0.26	0.00	2,684.67
Total	6.80	25.89	17.54	0.03	1.74	1.53	3.26	0.79	1.53	2.32	0.00	2,678.48	2,678.48	0.29	0.00	2,684.67

3.0 Construction Detail

3.2 Site Preparation - 2013

Unmitigated Construction On-Site

Category	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust					2.36	0.00	2.36	1.30	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	1.29	10.44	5.92	0.01		0.51	0.51	0.51	0.51	0.51	0.00	946.57	946.57	0.11	0.00	0.00	948.78
Total	1.29	10.44	5.92	0.01	2.36	0.51	2.87	1.30	0.51	1.81	0.00	946.57	946.57	0.11	0.00	0.00	948.78

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.30	0.00	0.03	0.00	0.00	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	0.00	0.03	0.00	0.00	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	0.02	0.15	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00	20.94	20.94	0.00	0.00	0.00	20.97
Total	0.01	0.02	0.15	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00	20.94	20.94	0.00	0.00	0.00	20.97

3.2 Site Preparation - 2013

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					1.06	0.00	1.06	0.58	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	1.29	10.44	5.92	0.01		0.51	0.51		0.51	0.51	0.00	946.57	946.57	0.11	0.00	948.78
Total	1.29	10.44	5.92	0.01	1.06	0.51	1.57	0.58	0.51	1.09	0.00	946.57	946.57	0.11	0.00	948.78

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	0.02	0.15	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00	20.94	20.94	0.00	0.00	20.97
Total	0.01	0.02	0.15	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00	20.94	20.94	0.00	0.00	20.97

3.3 Grading - 2013

Unmitigated Construction On-Site

Category	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust					0.79	0.00	0.79	0.43	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	3.83	6.37	4.04	0.01		0.36	0.36		0.36	0.36	0.00	820.19	620.19	0.07	0.00	0.00	621.61
Total	0.83	6.37	4.04	0.01	0.79	0.36	1.15	0.43	0.36	0.79	0.00	820.19	620.19	0.07	0.00	0.00	621.61

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.00	0.03	0.00	0.00	0.00	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	0.01	0.01	0.13	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	17.45	17.45	0.00	0.00	0.00	17.48
Total	0.01	0.04	0.13	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	17.45	17.45	0.00	0.00	0.00	17.48

3.3 Grading - 2013

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.35	0.00	0.35	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.83	6.37	4.04	0.01		0.36	0.36		0.36	0.36	0.00	620.19	620.19	0.07	0.00	621.61
Total	0.83	6.37	4.04	0.01	0.35	0.36	0.71	0.19	0.36	0.55	0.00	620.19	620.19	0.07	0.00	621.61

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	0.01	0.13	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	17.45	17.45	0.00	0.00	17.48
Total	0.01	0.01	0.13	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	17.45	17.45	0.00	0.00	17.48

3.4 Building Construction - 2013

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	tons/yr					MT/yr							
					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	0.67	4.52	3.06	0.01		0.30	0.30		0.30	0.30	0.30	0.00	478.23	478.23	0.05	0.00	479.38
Total	0.67	4.52	3.06	0.01		0.30	0.30		0.30	0.30	0.30	0.00	478.23	478.23	0.05	0.00	479.38

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	tons/yr					MT/yr							
					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
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	0.65	0.58	0.37	0.00	0.03	0.02	0.05	0.00	0.02	0.02	0.02	0.00	86.85	86.85	0.00	0.00	86.90
Worker	0.09	0.10	1.03	0.00	0.18	0.01	0.19	0.01	0.01	0.01	0.01	0.00	139.63	139.63	0.01	0.00	139.82
Total	0.14	0.68	1.40	0.00	0.21	0.03	0.24	0.01	0.03	0.03	0.03	0.00	226.48	226.48	0.01	0.00	226.72

3.4 Building Construction - 2013

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	tons/yr				MT/yr								
					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	0.67	4.52	3.06	0.01		0.30	0.30		0.30	0.30	0.30	0.00	478.23	478.23	0.05	0.00	479.38
Total	0.67	4.52	3.06	0.01		0.30	0.30		0.30	0.30	0.30	0.00	478.23	478.23	0.05	0.00	479.38

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	tons/yr				MT/yr								
					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	0.05	0.58	0.37	0.00	0.03	0.02	0.05	0.00	0.02	0.02	0.00	0.00	86.85	86.85	0.00	0.00	86.50
Worker	0.09	0.10	1.03	0.00	0.13	0.01	0.15	0.01	0.01	0.01	0.00	0.00	139.63	139.63	0.01	0.00	139.82
Total	0.14	0.68	1.40	0.00	0.21	0.03	0.24	0.01	0.03	0.03	0.00	0.00	226.48	226.48	0.01	0.00	226.72

3.5 Paving - 2013

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	tons/yr					MT/yr							
					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	0.55	3.42	2.21	0.00	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.30	284.14	284.14	0.94	0.03	285.08
Paving	0.00	0.00	0.00	0.00	0.00	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	0.55	3.42	2.21	0.00	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.30	284.14	284.14	0.94	0.03	285.08

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	tons/yr					MT/yr							
					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
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	0.02	0.02	0.17	0.00	0.03	0.00	0.03	0.30	0.00	0.00	0.00	0.00	23.27	23.27	0.00	0.03	23.30
Total	0.02	0.02	0.17	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	23.27	23.27	0.00	0.00	23.30

3.5 Paving - 2013

Mitigated Construction On-Site

Category	ROG	NOX	CO	SO2	tons/yr					MT/yr						
					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.55	3.42	2.21	0.00	0.29	0.29	0.29	0.29	0.29	0.29	0.00	284.14	284.14	0.04	0.00	285.08
Paving	0.00				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	0.55	3.42	2.21	0.00	0.29	0.29	0.29	0.29	0.29	0.29	0.00	284.14	284.14	0.04	0.00	285.08

Mitigated Construction Off-Site

Category	ROG	NOX	CO	SO2	tons/yr					MT/yr						
					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	0.02	0.02	0.17	0.00	0.03	0.03	0.03	0.00	0.00	0.00	0.00	23.27	23.27	0.00	0.00	23.30
Total	0.02	0.02	0.17	0.00	0.03	0.03	0.03	0.00	0.00	0.00	0.00	23.27	23.27	0.00	0.00	23.30

3.6 Architectural Coating - 2013

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	tons/yr					MT/yr							
					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Archit. Coating	3.19				0.00	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	0.06	0.39	0.25	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.00	33.28	33.28	0.01	0.00	33.39
Total	3.25	0.39	0.25	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.00	33.28	33.28	0.01	0.00	33.39

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	tons/yr					MT/yr							
					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
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
	0.00	0.00	0.00	0.00	0.00	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	0.02	0.02	0.21	0.00	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	27.93	27.93	0.00	0.00	27.93
Total	0.02	0.02	0.21	0.00	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	27.93	27.93	0.00	0.00	27.93

3.6 Architectural Coating - 2013

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NI Bio-CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
Archit. Coating	3.19				0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.06	0.39	0.25	0.00		0.04	0.04		0.04	0.04	0.00	33.28	33.28	0.01	0.00	33.39
Total	3.25	0.39	0.25	0.00		0.04	0.04		0.04	0.04	0.00	33.28	33.28	0.01	0.00	33.39
MT/yr																

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NI Bio-CO2	Total CO2	CH4	N2O	CO2e
tons/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	0.02	0.02	0.21	0.00	0.04	0.00	0.04	0.00	0.00	0.00	0.00	27.93	27.93	0.00	0.00	27.95
Total	0.02	0.02	0.21	0.00	0.04	0.00	0.04	0.00	0.00	0.00	0.00	27.93	27.93	0.00	0.00	27.95
MT/yr																

La Mesa General Plan - Operational Emissions
San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	1620	1000sqft
Industrial Park	196	1000sqft
Apartments Low Rise	2899	Dwelling Unit
Single Family Housing	289	Dwelling Unit
Strip Mall	1620	1000sqft

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.6 Utility Company San Diego Gas & Electric
 Climate Zone 13 Precipitation Freq (Days) 40

1.3 User Entered Comments

Project Characteristics -
 Land Use - Per project description and estimated future land uses
 Construction Phase - Does not include construction estimates

Off-road Equipment - Does not include construction estimates
 Vehicle Trips - Updated to be consistent with VMT estimates in traffic study
 Woodstoves - Assumes no wood fireplaces in multi-family residential units

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

Category	ROG	NOx	CO	SO2	tons/yr					MT/yr						
					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NRB-CO2	Total CO2	CH4	N2O	CO2e
Area	57.09	0.94	71.35	0.10	0.00	7.88	0.00	7.87	863.86	6,556.76	7,419.62	3.16	0.14	7,529.03		
Energy	0.54	4.76	2.88	0.03	0.00	0.37	0.00	0.37	0.00	27,282.17	27,282.17	0.92	0.41	27,487.64		
Mobile	6.85	12.25	56.45	0.18	18.16	0.92	19.08	0.29	0.69	1.18	12,207.52	12,207.52	0.45	0.00	12,216.51	
Waste					0.00	0.00	0.00	0.00	1,484.89	0.00	1,484.89	87.75	0.00	3,327.74		
Water					0.00	0.00	0.00	0.00	0.00	8,790.70	8,790.70	48.50	1.32	10,217.74		
Total	64.48	17.95	130.72	0.31	18.16	0.92	27.33	0.29	0.39	9.42	2,348.75	54,836.15	57,184.90	140.78	1.87	60,719.05

2.2 Overall Operational

Mitigated Operational

Category	tons/yr										MT/yr					
	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Area	57.09	0.94	71.35	0.10		0.90	7.88		0.00	7.87	863.86	5,555.76	7,419.62	3.16	0.14	7,529.03
Energy	0.54	4.76	2.88	0.03		0.00	0.37		0.00	0.37	0.00	27,282.17	27,282.17	0.92	0.41	27,427.94
Mobile	6.85	12.25	56.49	0.18	18.15	0.92	19.08	0.23	0.89	1.18	0.00	12,207.52	12,207.52	0.45	0.00	12,216.91
Waste						0.00	0.00		0.00	0.00	1,484.89	0.00	1,484.89	87.75	0.00	3,327.74
Water						0.00	0.00		0.00	0.00	0.00	8,790.70	8,790.70	48.50	1.32	10,217.74
Total	64.48	17.95	130.72	0.31	18.15	0.92	27.33	0.29	0.89	9.42	2,348.75	54,835.15	57,184.90	140.78	1.87	80,719.05

3.0 Construction Detail

3.1 Mitigation Measures Construction

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

Category	ROG	NOx	CO	SO2	tons/yr					MT/yr						
					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	Mobile CO2	Total CO2	CH4	N2O	CO2e
Mitigated	6.85	12.25	56.49	0.18	16.16	0.92	19.08	0.29	0.89	1.18	0.00	12,207.52	12,207.52	0.45	0.00	12,216.91
Unmitigated	6.85	12.25	56.49	0.18	16.16	0.92	19.08	0.29	0.89	1.18	0.00	12,207.52	12,207.52	0.45	0.00	12,216.91
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	Annual VMT	Annual VMT
Apartment Low Rise	3,333.85	3,623.75	3,072.94	9,530,978	9,530,978	9,530,978	9,530,978
General Office Building	3,110.40	664.20	275.40	5,630,121	5,630,121	5,630,121	5,630,121
Industrial Park	237.16	84.28	25.48	485,248	485,248	485,248	485,248
Single Family Housing	449.23	470.75	411.57	1,276,104	1,276,104	1,276,104	1,276,104
Strip Mall	12,506.40	11,858.40	5767.20	17,635,050	17,635,050	17,635,050	17,635,050
Total	19,637.04	16,704.38	9,552.69	34,557,502	34,557,502	34,557,502	34,557,502

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
Apartment Low Rise	10.80	7.30	7.50	41.60	18.80	39.60
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00

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	H-W or C-W	H-S or C-C	H-O or C-NW
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00			
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60			
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00			

5.0 Energy Detail

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	tons/yr				M ³ /yr							
					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Electricity Mitigated					0.00	0.00	0.00	0.00	0.00	0.00	0.00	21,913.51	21,913.51	0.01	0.31	22,026.30
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	21,913.51	21,913.51	0.81	0.31	22,026.30
NaturalGas Mitigated	0.54	4.76	2.88	0.03	0.00	0.00	0.37	0.00	0.00	0.37	0.00	5,368.67	5,368.67	0.10	2.10	5,401.34
NaturalGas Unmitigated	0.54	4.76	2.88	0.03			0.37		0.00	0.37		5,368.67	5,368.67	0.10	0.10	5,401.34
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use KBTU	ROG	NOx	CO	SO2	tons/yr						MT/yr					
						Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBIogenic CO2	Total CO2	CH4	N2O	CO2e
Apartment's Low Rise	4.84455e+007	0.26	2.23	0.95	0.01		0.00	0.18		0.00	0.18	0.00	2,585.24	2,585.24	0.06	0.05	2,600.97
General Office Building	3.40668e+007	0.18	1.67	1.40	0.01		0.00	0.13		0.00	0.13	0.00	1,818.03	1,818.03	0.03	0.03	1,829.08
Industrial Park	4.12189e+006	0.02	0.26	0.17	0.00		0.00	0.02		0.00	0.02	0.00	219.96	219.96	0.03	0.03	221.30
Single Family Housing	1.02592e+007	0.06	0.47	0.20	0.00		0.00	0.04		0.00	0.04	0.00	547.47	547.47	0.01	0.01	550.80
Strip Mall	3.7058e+008	0.62	0.18	0.15	0.00		0.00	0.01		0.00	0.01	0.00	197.97	197.97	0.00	0.00	199.17
Total		0.54	4.75	2.87	0.02		0.00	0.38		0.00	0.38	0.00	5,368.67	5,368.67	0.09	0.09	5,401.33

5.2 Energy by Land Use - NaturalGas

Mitigated

Land Use	NaturalGas Use KBTU	ROG	NOx	CO	SO2	tans/yr						MT/yr					
						Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Apartments Low Rise	4.84455e+007	0.26	2.23	0.95	0.01	0.00	0.00	0.18	0.00	0.18	0.00	0.00	2,885.24	2,885.24	0.05	0.05	2,830.97
General Office Building	3.40686e+007	0.18	1.87	1.40	0.01	0.00	0.00	0.13	0.00	0.13	0.00	0.00	1,818.03	1,818.03	0.03	0.03	1,829.08
Industrial Park	4.12188e+006	0.02	0.20	0.17	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	219.96	219.96	0.00	0.00	221.36
Single Family Housing	1.02592e+007	0.06	0.47	0.20	0.00	0.00	0.00	0.04	0.00	0.04	0.00	0.00	547.47	547.47	0.01	0.01	550.80
Strip Mall	3.7098e+006	0.02	0.18	0.15	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	197.97	197.97	0.00	0.00	198.17
Total		0.54	4.75	2.87	0.02	0.00	0.00	0.38	0.00	0.38	0.00	0.00	5,368.67	5,368.67	0.09	0.09	5,401.53

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use KWh	ROG	tons/yr				Total CO2	MT/yr			CO2e
			NOx	CO	SO2	CH4		N2O	CO2e		
Apartments Low Rise	1.01832e+007					3,609.49	0.13	0.05	3,625.05		
General Office Building	2.42838e+007					8,600.36	0.32	0.12	8,644.63		
Industrial Park	2.93804e+006					1,040.54	0.04	0.01	1,045.89		
Single Family Housing	1.72468e+006					610.81	0.02	0.01	613.96		
Strip Mall	2.27448e+007					8,055.31	0.30	0.11	8,096.77		
Total						21,913.51	0.81	0.30	22,026.30		

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use kWh	ROG	tons/yr				Total CO2	MT/yr		
			NOx	CO	SO2	CH4		N2O	CO2e	
Apartments Low Rise	1.01832e+07					3,608.49	0.13	0.05	3,625.05	
General Office Building	2.42838e+07					8,600.36	0.32	0.12	8,644.63	
Industrial Park	2.93804e+06					1,040.54	0.04	0.01	1,045.89	
Single Family Housing	1.72468e+06					610.81	0.02	0.01	613.96	
Strip Mall	2.27448e+07					8,055.31	0.30	0.11	8,096.77	
Total						21,943.51	0.81	0.30	22,026.30	

6.0 Area Detail

6.1 Mitigation Measures Area

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Mitigated	57.09	0.94	71.35	0.10		0.00	7.88		0.00	7.87	863.86	6,555.76	7,419.62	3.16	0.14	7,529.63
Unmitigated	57.09	0.94	71.35	0.10		0.00	7.88		0.00	7.87	863.86	6,555.76	7,419.62	3.16	0.14	7,529.63
Total	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Architectural Coating	9.27					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
Consumer Products	26.63					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	20.48	0.87	47.65	0.10		0.00	7.74		0.00	7.74	863.86	6,516.90	7,380.75	3.12	0.14	7,489.39
Landscaping	0.71	0.27	23.69	0.00		0.00	0.13		0.00	0.13	0.00	38.86	38.86	0.04	0.00	39.64
Total	57.09	0.94	71.34	0.10		0.00	7.87		0.00	7.87	863.86	6,555.76	7,419.61	3.16	0.14	7,529.03

6.2 Area by SubCategory

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MAT/yr					
Architectural Coating	9.27					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	26.63					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	20.48	0.67	47.65	0.10		0.00	7.74		0.00	7.74	863.86	6,516.90	7,380.75	3.12	0.14	7,489.39
Landscaping	0.71	0.27	23.89	0.00		0.00	0.13		0.00	0.13	0.00	38.86	38.86	0.04	0.00	39.64
Total	57.09	0.94	71.34	0.10		0.00	7.87		0.00	7.87	863.86	6,555.76	7,419.51	3.16	0.14	7,529.03

7.0 Water Detail

7.1 Mitigation Measures Water

Category	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					8,790.70	48.58	1.32	-10,217.74
Unmitigated					8,790.70	48.58	1.32	-10,217.74
Total	NA	NA	NA	NA	NA	NA	NA	NA

7.2 Water by Land Use

Unmitigated

Land Use	Indoor/Outdoor Use	tons/yr				MT/yr			
		ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Apartments Low Rise	188,882 / 119,677					1,341.69	5.82	0.16	1,513.98
General Office Building	287,929 / 176,472					2,025.39	8.86	0.25	2,287.93
Industrial Park	963,721 / 0					4,455.03	28.58	0.79	5,321.82
Single Family Housing	17,5284 / 11,0493					124.50	0.54	0.02	140.48
Strip Mall	119,997 / 73,5468					344.10	3.69	0.10	353.52
Total						8,790.71	48.49	1.32	10,217.73

7.2 Water by Land Use

Mitigated

Land Use	Indoor/Outdoor Use	Mgal	tons/yr					MT/yr			
			ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e	
Apartments Low Rise		188,882 / 119,077					1,341.69	5.82	0.16	1,513.98	
General Office Building		287,929 / 176,472					2,026.39	8.86	0.25	2,287.93	
Industrial Park		963,721 / 0					4,455.03	29.58	0.79	5,321.82	
Single Family Housing		17,526 / 11,049					124.50	0.54	0.02	140.48	
Strip Mall		119,997 / 73,546					844.10	3.69	0.10	953.52	
Total							8,790.71	48.49	1.32	10,217.73	

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					1,484.89	87.75	0.00	3,327.74
Unmitigated					1,484.89	87.75	0.00	3,327.74
Total	NA	NA	NA	NA	NA	NA	NA	NA

8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed tons	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
		tons/yr				MT/yr			
Apartments Low Rise	1333.54					270.70	16.00	0.00	606.65
General Office Building	1508.6					305.83	18.07	0.00	695.38
Industrial Park	2412.31					489.68	28.94	0.00	1,057.40
Single Family Housing	361.62					73.41	4.34	0.00	164.51
Strip Mall	1701					345.29	20.41	0.00	773.81
Total						1,484.91	87.76	0.00	3,327.75

8.2 Waste by Land Use

Mitigated

Land Use	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons	tons/yr					MT/yr		
Apartments Low Rise	1333.54					270.70	16.00	0.00	606.65
General Office Building	1506.6					306.83	18.07	0.00	685.38
Industrial Park	2412.31					489.68	28.94	0.00	1,097.40
Single Family Housing	361.62					73.41	4.34	0.00	164.51
Strip Mall	1701					345.29	20.41	0.00	773.81
Total						1,484.91	87.76	0.00	3,327.75

9.0 Vegetation

